# DesignBais

## Installation and Release Notes

## Version 9.2.1.1

# Contents

# DesignBais Upgrade Requirements

Existing licensees should check that your Maintenance Expiry date is current before upgrading.

You may need to request and install an updated licence record.

The *Maintained Until* field in *Active Users* displays the Maintenance Expiry Date.



| Date | Release | Description |
|---|---|---|
| 14 Jun 2024 | 9.2.1.1 | Upgrade Routine 42 should be run to utilize Ctrl+Enter to trigger the Search button. |
| 28 Aug 2023 | 9.1.1.2 | Upgrade Routine 41 should be run to move eXpress field lists from DBIFILES and DBIPARMS to the new file DBIEXPRESS. |
| 24 Apr 2023 | 8.9.1.1 | The DBMail attribute DBM.DATE.FORMAT was single valued in previous releases. It is set in DBI.G.DBMAIL. It is now passed in per column. This may require a change to DesignBais applications on your site. |
| 24 Apr 2023 | 8.9.1.1 | Upgrade Routine 41 should be run to move eXpress Group Names and eXpress Reporting fields from DBIFILES to DBIPARMS. From Release 8.9.1.1 eXpress Group Names and eXpress Reporting fields are stored on DBIPARMS records with a key of EXPRESS*filename.<br>This allows amendments to these group names to be moved to production environments without the requirement to update the DBIFILES record. |
| 24 Apr 2023 | 8.9.1.1 | Upgrade Routine 42 should be run to Refresh Search forms to utilise Ctrl+Enter to trigger the Search button. |
| 21 July 2021 | 8.5.1.5 | Upgrade Routine 38 created to move FONT* definition records from DBIPARMS to DBISTYLE which is normally a global file. If upgrading from a release prior to 8.5.1.5 then you should run this upgrade.<br>Font items hold calculated character height and width for all style fonts and have been stored in DBIPARMS since their inception. DBIPARMS is usually local to each data account. Some systems have many data accounts such that if the font records are in each account, in DBIPARMS, the Set Style Heights process would need to be run in every data account. |
| 14 May 2020 | 8.3.3.4 | Upgrade Routine 30 must be run when upgrading for the first time to release 8.3.3.4 and above from any release prior to 8.3.3.4. Release 8.3.3.4 marks the change to Forms Designer to use the stylegroup definitions to determine the characteristics of form elements, rather than hard-coded defaults based on a particular verdana font. Upgrade 30 will adjust the rowspan of input fields |

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|---|---|---|
| | | from 18 to 13 by default in order to allow the stylegroup to determine the forms look and feel. |
| 25 Jan 2019 | 7.4.1.1 | Release 7.4.1.1, and all ensuing releases, of DesignBais require .NET Framework 4.6.1 or above in order to support changes to the RTF Editor. If you are using Windows Server 2016 or above then this framework is already included. On older versions of Windows Server you will need to load the 4.6.1 Framework and then reboot the windows server. If you are not using the RTF Editor it is not essential to load the new framework. |
| 1 May 2017 | 7.1.1.1 | DesignBais .NET Release 7 available for download. |

# Important: Changes to Settings that may require attention

| Date | Release | Description |
|------|---------|-------------|
| 28 Aug 2023 | 9.1.1.2 | A new DesignBais file DBIEXPRESS is required in release 9.1.1.2. This file holds field lists and other parameters associated with the eXpress Report tool. The file will be created when DBI.P.ACCOUNT.SETUPNET is run. |
| 24 Apr 2023 | 8.9.1.1 | There is a new parameter to control when the menu 'Subroutine to invoke before screen' is invoked. Refer to Checklist item (8*970) in the Description column for enhancements in Release 8.9.1.1.<br><br>This setting will control when the BEFORE SCREEN subroutine attached to the menu structure is run. A setting in System parameters will override the Global General Parameters setting.<br><br>**The default "Menu Only" setting is a change from previous releases. "First" was the original setting in releases up to 8.8.2.3.** |

# Fixes and Enhancements in Release 9.2.1.1

| For Final Release | Description | Full Description |
|---|---|---|
| 9.2.1.1 | Update DBDEVACTIONS after file delete (8*83) | The error message 'The filename entered is not known to DesignBais. Please set-up the file in File Properties' was being displayed after deleting a file from DBIFILES, in the File Properties maintenance form.<br>The message displayed because the name of the file was retained in DBDEVACTIONS common variable.<br>This has been fixed. |
| 9.2.1.1 | Find String Conjunct Search error (8*153) | The Conjunct option is designed to use the previous result set as the starting point for the next search.<br>It was reported that in many cases the next search was ignoring the result set from the previous search.<br>This has been fixed. |
| 9.2.1.1 | DBI.P.ACCOUNT.SETUPNET for D3 (8*1067) | The variable VOC.REC in PROCESS.FILE is now initialised for the D3 Q pointer. This is required because after the READ from the MD it will contain many attributes if the file exists.<br><br>The DICT file name item is no longer copied as it is a file definition item.<br>There may be a problem if resetting an existing account, rather than using the option 'Create new DBI files only (do not update existing pointers) & only catalog missing programs'.<br>The Q-pointer is used to copy in the DICT items which is also done by DBI.P.UPDATE.ACCOUNTNET. |
| 9.2.1.1 | RD Fields Setting Focus (8*1070) | RD fields cannot be sorted when setting focus.<br>Change events were found to be incorrectly going through the autofocus calculations. |
| 9.2.1.1 | Invalid User Start Account or Start Form (8*1073) | The data component now checks if an account contains a file named DBIPARMS before passing the account name to the web component.<br>This enables the web component to display an 'Account unavailable' message rather than the 'Session initialisation error [301]' message.<br>If there is an invalid account name in the Start Account list for the user then the following message is displayed (using DB.NET as an example):<br>    DB.NET Development Initialisation Error<br>    Default login form not found. |

| | | If there is an invalid form name in the Start Form list for the user then the following message is displayed:<br><br>    DB.NET Development Initialisation Error<br>    DBIFORMS_DEVELOP111 unavailable<br><br>where DBIFORMS_DEVELOP111 is the invalid form name. |
|---|---|---|
| 9.2.1.1 | Designer Context Menu (8*1074) | An error was reported which is now fixed. The correct XML Id is now added to the context menu for styled checkboxes and radio buttons. |
| 9.2.1.1 | DesignBais Purge Process (8*1075) | The DesignBais daily purge routine now checks for orphan code editor locks. These locks are now purged if the 'locked' record is no longer in the user's exclusive locks list linked to the original session that opened the record in code editor. |
| 9.2.1.1 | Upload Files URI Encoding (8*1076) | DesignBais encodes file paths as a hex character string when passed from the web component to the database. This is to avoid issues with special characters in the file paths.<br>Normal processing in the data component was:<br>- convert the hex to decimal via XTD<br>- convert the decimal to a character via the CHAR function<br>In a UniVerse NLS environment the returned data was displayed incorrectly. For UniVerse databases the ENCODE function has replaced the custom logic used for the other databases to decode and encode hex strings. |
| 9.2.1.1 | Dropdown List Javascript Encoding (8*1077) | File selection dropdown lists were being javascript encoded multiple times.<br>For example, 58' was displayed as 58\'. This has been fixed.<br>Option values are no longer HTML encoded since they cannot contain active HTML elements. |
| 9.2.1.1 | Field Properties (8*1078) | The display of the field tag 'Incl / Excl MV Fields' required the Encode HTML field property to be set to 'No'. This prevents the javascript encoding of the slash character. |
| 9.2.1.1 | OFR Title Text (8*1079) | On form report OUTPUT.TITLE text is now correctly HTML encoded and javascript escaped.<br>This fixed an issue where JavaScript undefined errors were created when a double quote followed by 3 spaces was in the title text.<br>There was also an issue with a double quote followed by 3 spaces was in the cell data. The javascript escaping left a stray backslash in the display.<br>This has been fixed. |

| 9.2.1.1 | Forms Designer Drag Radio Buttons undefined error (8*1083) | JavaScript undefined errors displayed when radio buttons were selected, drag was then turned on, but the process was not completed. This could be, for example, because the developer selects another field.<br>The error was caused by DesignBais applying the incorrect element Ids.<br>This has been fixed. |
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| 9.2.1.1 | Highchart Template (8*1087) | In System Parameters the Highchart Templates option now allows the user to enter the name of an existing demonstration template. These templates are loaded into the DBINET.DEMO account.<br>Note that these templates will not be selected and displayed when the Highchart Template Id selection button is clicked but the name can be entered into the input field. |
| 9.2.1.1 | Data Extraction (8*1088) | If the Domain Email Address is not populated when sending the data extract file and there is an Email From address:<br>- on the user record on DBIUSERS<br>- on Global Parameters LOGINDEFAULTS<br>- on Workflow Control<br>then this email from address will be used as the Domain Email Address.<br>This scenario would normally only occur when the data extraction function is first used and setup has not been fully completed. |
| 9.2.1.1 | Selection Process (8*1090) | It was reported, after saving a selection process, that focus was not returned to the Select Name field as expected.<br>This was caused by a corruption of COMMON variables during the update.<br>Affected variables are now saved and restored. |
| 9.2.1.1 | Forms Designer Button Sequence (8*1093) | The Save, Exit and Review buttons in Forms Designer have been moved to the end of the button ribbon.<br>The styles reviewed and the inline styles moved into a class where possible.<br>The labels were changed from a <div> to a disabled <button>.<br>The button sequence can now be maintained by the developer using the new maintenance form reached via the Tool Bar button that is found in the System or Global Designer Defaults.<br>Report Designer uses the same button sequence but skips the buttons that are not applicable.<br>Report Designer section handles now all use the same class and hence, are the same color. |

| 9.2.1.1 | Field Properties Advanced Field Copy (8*1095) | The Advanced Copy option in Field Properties was failing to create the dictionary associated with a new field property. This has been fixed. |
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| 9.2.1.1 | Default Modal Header and Footer Forms (8*1098) | In DesignBais V6 the base form default header was applied to modal forms if no modal header form was defined. This did not allow for the situation where a default header was not wanted on a modal form and was changed in DesignBais release 8.6.0.2. A new global parameter 'Apply Base Header Defaults to Modal Forms' allows for the original behaviour. Check this box to invoke DesignBais V6 behaviour. If not checked then the modal header form defaults defined in global parameters will be applied. If none are defined then no modal default header will be applied. Similarly, 'Apply Base Footer Defaults to Modal Forms' was also added. |
| 9.2.1.1 | Hiding Textarea Undefined error (8*1099) | It was reported that when DBENABLEFIELD was used to hide a textarea then a javascript undefined error was produced. This has been fixed. |
| 9.2.1.1 | Focus on OFR Page Entry (8*1101) | A javascript undefined error was thrown if paging an OFR but no Page Number Entry field was included. This scenario would be occur in a narrow OFR where Designbais calculates that there is insufficient OFR width for the page number entry field to be included. This has been fixed. |
| 9.2.1.1 | Custom Attribute Commands (8*1104) | The removeCustomAttribute and customAttribute commands were not handling attributes with no assigned value such as 'noscrolly'. |
| 9.2.1.1 | Allow DBCALLURL with newTab in RDMODE (8*1105) | DesignBais now allows DBCALLURL with newTab in RDMODE. This fixes a problem that has existed since RD was released. Javascript escaping of arguments for window.open have been removed. |
| 9.2.1.1 | Report Export to XLS with Break Fields (8*1106) | The BREAK fields were using the COL.COUNT rather than the BREAK.COL.COUNT variables which disturbed the alignment of field types. This has been fixed. |

| 9.2.1.1 | REPORT PAGE Event Added to OFR processing (8*1108) | PROCESS.REFRESH<5,x> may now be set with the name of a subroutine to call at each OFR paging event.<br>This enables, for example, a javascript function to be called to set events on elements displayed in the new page e.g. draggable functions.<br>It also allows each OFR page to scroll to the same row as the pages are traversed. |
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| 9.2.1.1 | Glossary processing error (8*1110) | Square brackets are used in DesignBais error messages to define strings that are not to be replaced by the glossary lookup process.<br>In the case where a mandatory field error was encountered the square brackets around the field name were not being removed before display of the error message. Fixed in this release. |
| 9.2.1.1 | Dialog displays without any button (8*1111) | A scenario was reported where an error message dialog displayed in postion 0,0 with no buttons to allow the user to exit or continue.<br>In the case where a selection from an OFR cell returns to the form level below and encounters an error, the eror message dialog is now centered so that the user can click the error dialog and continue. |
| 9.2.1.1 | Orphaned Record Locks now Purged (8*1112) | DesignBais exclusive record locks are numeric checksums. These records are session related and occasionally are not cleaned up correctly.<br>The DesignBais daily purge now checks the date of the lock and removes it in line with the normal purge date checking.<br>If the lock is editor related it will not be purged until the associated EDITOR lock is removed. |
| 9.2.1.1 | Selection Process changes (8*1113) | Additional parameters have been added to the Selection Process to allow the developer more options to control the appearance of the search form.<br>The developer can now specify:<br>- the row spacing between successive selection input fields<br>- the left margin indent to the start of the text label<br>- the gap between the text label and its associated input field<br>- the row spacing for the refinement fields at the base of the search form<br>See also checklist pages 1134 and 1136. |

| 9.2.1.1 | Undefined Variable in Selection Date Fields (8*1114) | Fields used as entry points in a selection process are not associated with their original file and hence no field properties are available. Under these circumstances DesignBais was not setting the date range variables LOWER.DATE and UPPER.DATE. This has been fixed. |
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| 9.2.1.1 | Redisplay After Error (8*1115) | A dropdown list updating a work field, with a read attached, was using the same DBWORK attribute. On a read lock failure, the dropdown was refreshed as the event source, but the read field remained. This triggered a loop. After an error DesignBais now checks if the BX.START.REDISPLAY variable also occurs earlier in the field list. |
| 9.2.1.1 | Menu Definitions Edit Style Buttons (8*1116) | The edit style button, displayed as an icon in the Menu Definitions form and placed just to the left of the input field, has been extended to be available for all menu types and styles. |
| 9.2.1.1 | Style Definition (8*1117) | There is now an option to limit the CSS entry to just the additional style list. This allows developers to create a style record with just the listed additional style attributes listed. The top fields in Style Maintenance such as the font setting are ignored. |
| 9.2.1.1 | Change Password Function (8*1118) | A new user menu option in the Developer Tools top menu has a Change Password option. This allows a user to change their password without the requirement to invoke the temporary password option on the DesignBais login form. |
| 9.2.1.1 | Copy Selection (8*1119) | When the Copy Selection Process form was invoked, and not all key components were entered, and the submit button was clicked, then a record with a null key part was written. This has been fixed. When the Copy To Process Name was entered, and the Submit button was clicked before tabbing out, then the error dialog was corrupted. To avert this error a pre-submit button has been added to verify all fields are present. |
| 9.2.1.1 | Box Menus (8*1120) | Box menus are only valid on the top menu. The positioning is set by the Container style. Where a user does not have access to a preceding menu option then the fixed position meant that the box menu was not aligned correctly. DesignBais now overrides the left setting. |

| 9.2.1.1 | Login Acknowledgement Message (8*1129) | A problem was reported when clearing the Login Acknowledgement Message. The message is maintained using the HTML editor. <br><br> Unless the html was completely removed by displaying and deleting the source code of the message then remnant html code remained and the Login Acknowledgement Message was still displaying with no content. <br><br> This has been fixed. |
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| 9.2.1.1 | End of Period Reports (8*1130) | A mod to pass WEBLOGON into EOP reports was found to be setting DRAWER security and has been reversed. |
| 9.2.1.1 | DesignBais Login Form D21 (8*1131) | An error was reported when attempting to register for Google Authentication in the same instance as using a temporary password. <br><br> Clicking the Register button aborted the login attempt with the 'Invalid Credentials' message. <br><br> This has been fixed. If new and confirm passwords match the user can then register for Google Authentication. |
| 9.2.1.1 | Firefox Scrollbar Width (8*1132) | Firefox scrollbarWidth is returning 0 which is too narrow. This setting has been adjusted to 12. |
| 9.2.1.1 | Style Definition Set Style Heights Button (8*1133) | The Set Style Heights hyperlink button, used to set font size, wasn't working after a mod for UV NLS, due to a an if condition relying on null and 0 being equivalent. <br><br> The old '' (null) not equal to 0 (zero) trap. <br><br> This has been fixed. |
| 9.2.1.1 | Selection Process Rebuild Button (8*1136) | Selection Process definitions now display a Rebuild hyperlink in the form header. This button is enabled when the form is opened, before a Filename and Select Name are entered. <br><br> If the Selection Process Controls for each style group, which control the look of Selection Processes, are updated on a Style Group, developers may now rebuild all Selection Processes in that changed Style Group. <br><br> See checklist pages 1113 and 1134 as well. |
| 9.2.1.1 | Reports with Flattened MV (8*1140) | The amended Excel export, which applies a field type, such as numeric or date, was failing when MV fields were flattened into multiple columns. This has been fixed. |
| 9.2.1.1 | New function RND in DBI.G.DBSPECIFICNET (8*1141) | Random number generation is now done by a call to DBI.G.DBSPECIFICNET. |

| 9.2.1.1 | FORMSLIST (8*1142) | The session item listing all menu forms accessible was including the new horizontal line menu option, which has no process to run.<br>The horizontal line menu option is now excluded from FORMSLIST. |
|---------|--------------------|-----------------------------------------------------------------|
| 9.2.1.1 | View Como (8*1143) | Value marks are now displayed as a double pipe in the View Como tool.<br>For example: VALUE1\|\|value2\|\|value3 |
| 9.2.1.1 | Report Build (8*1144) | The processing loop stripping HTML out of report fields for Excel conversion was using an incorrect counter and wasn't finishing. This has been fixed. |
| 9.2.1.1 | PORTDELETE Failed Message Removed (8*1145) | During normal processing hits are logged and removed from DBISTATS.<br>The 'PORTDELETE failed' message is no longer written when the hit log record cannot be found. |
| 9.2.1.1 | Dialog placement under Styled Checkbox or Radio (8*1148) | Styled checkboxes and radios are wrapped in a label element with an id prefixed with 'lbl'. This prefix is needed in order to position a dialog box correctly under the checkbox or radio form element. |
| 9.2.1.1 | IDHit Control (8*1153) | The initial three hits for a DesignBais session are now identified by:<br>1: BAACTION='GETW3' + no ajax node<br>2: BAACTION='GETW32'<br>3: EVENTSOURCE = 'bodyID' and EVENTTYPE = 'onload' |
| 9.2.1.1 | Testing Reports in Report Designer (8*1154) | When closing the report preview form the RUN. form is now reset correctly. |
| 9.2.1.1 | Date Picker (8*1155) | The extraction of the separator from the Date Format string was relying on the format D4/ or D2/ where the slash could represent other separators.<br>The format D/ which is a valid format failed to extract the separator and defaulted to a space - leaving a discrepancy between the database date format and the date picker.<br>Fixed. |

| 9.2.1.1 | Support for SELECTV basic command (8*1157) | The SELECTV command can now be utilised using a call to DBI.G.DBSPECIFICNET. The syntax to use is shown. SEL.IDS can be either a multivalued or attribute delimited list: OS.FUNCTION = 'SELECTV' OS.DATAIN = SEL.IDS CALL DBI.G.DBSPECIFICNET(OS.FUNCTION,OS.DATAIN,OS.DATAOUT) * the select list will be returned in DBRETURN.SELECT(1) * and could be accessed in a READNEXT loop as follows LOOP     READNEXT RID FROM DBRETURN.SELECT(1) ELSE EXIT     CRT RID REPEAT |
|---------|---------|---------|
| 9.2.1.1 | Standard Audit Display (8*1161) | A new button 'View Standard Audit' has been added to the header bar of the extended audit display form. This displays audit details from the DBIAUDIT file. This file is populated when a File Properties record has the Enable Auditing flag set. |
| 9.2.1.1 | Auto Focus in Selection Process (8*1162) | Fixed an issue with the field sort sequence when the select process field ROW positions contained a decimal point which resulted in the refinement field in a selection being given focus rather than the initial select field. The vertical alignment of labels within the input box in Selection Process Maintenance has been fixed as well. |
| 9.2.1.1 | Login Form DBIGLOBAL D21 (8*1166) | It was reported that, when running in synchronous mode, entering a PIN and clicking the Login button caused problems. The PIN validation has been moved to the Login button. Tabbing out of the PIN field will no longer log the user in - the Login button must be clicked. |
| 9.2.1.1 | rdSetAttribute and rdRenoveAttribute (8*1168) | These functions will now update the Custom Attributes on the linked form. DBI.G.LOOKUP will apply the new nofilter='true' attribute. The new attribute nofilter='true' will allow DesignBais to display the full list of items returned, based on the user-entered search value. |
| 9.2.1.1 | RD Lookup Event (8*1170) | The DesignBais data component LOOKUP event will no longer return the code value that matches the entered text string. The web component will control the display and return a change event with the final value. |

| 9.2.1.1 | Dialog DBMVCOUNT in Multivalue Grid (8*1172) | Dialog responses were returning to the first MV position in the grid.<br>DBMVCOUNT is now carried correctly.<br>DIALOGRESPONSE EVENTSOUCE is now set to the appropriate 'popup' option, rather than the last MV cell, to avoid clashes with MV logic. |
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| 9.2.1.1 | Dialog Box from Form Enter Control Button (8*1173) | The dialog parameter was being reset to the EVENTFROM which is the name of the Button action to occur when Enter is presssed on the the form. This should only be done when displaying IERR.TEXT or DBDS and not when processing a dialog box displayed by the application. |
| 9.2.1.1 | Context Menu Position now Fixed (8*1177) | Using the css option 'position:fixed' allows better positioning of the context menu.<br>The context menu will be displayed where the right mouse button was clicked. |

# Upgrading an existing release of DesignBais

For existing DesignBais users the procedure to upgrade to a later release is simple.

Data Component

1. Backup your existing DesignBais data accounts (DBINET, DBINET.DEMO)
2. Download and extract the Database Component to the same folder overwriting the existing release.
3. Logto each of your data accounts in a database shell or using a green screen emulator.
4. At the command line: RUN DBINET DBI.P.ACCOUNT.SETUPNET
5. At the prompt: *Create new DBI files only (do not update existing pointers) - Y or N<cr>*
6. Enter Y and press Enter.
7. This option will create new or missing DBI files and will catalog new DBINET subroutines.

Web Component

1. Backup your existing DesignBais website. For a standard installation this resides at c:\inetpub\wwwroot\DBNET.
2. Download and extract the new Web Component to a temporary folder.
3. From the new Web Component delete the *db.config* and the *web.config* files.
4. Review any other site specific content in the *images* or *css* folders and ensure that these are re-loaded from your backup after completing the copy below in step 5.
5. Select all files (*Ctrl a*) in the new Web Component and copy over the existing Web Component.

# Overview DesignBais .NET Release

The new **DesignBais .NET Release 7** is available for download (from 1 May 2017).

**Full cross browser implementation**

- Built on .NET Framework 4.5
- Cross browser only
- Web component no longer requires installation
- Simplified and more reliable architecture
- Minor UI changes
- No direct TCP/IP connections so better TCP/IP resource utilisation
- No need to configure TCP/IP parameters

New and improved features

1. Full cross browser implementation
2. Form Section Control
   - form sections automatically sorted so setting up section collapsing is much simpler
   - redundant section names removed automatically
   - sub sections sorted to the end of the section list where they need to be
   - check of collapsing sections reports on section overlap that will disturb correct collapse functionality

3. Form Tab Indexing
   - the ability to set an increment greater than 1 between tab index settings
   - facilitates the insertion of new form elements within an existing sequence

4. Click Timeout parameter to allow a delay for the click event to complete
5. Mouse Out event now available
6. Encode HTML option enhances security against XSS injection attacks
7. Hit Blocker allows form elements to be hidden and following events to be blocked
8. Custom Attributes for a field (added to the HTML tag and then available for javascript)
9. DesignBais styles (class) have been completely reviewed
   - standard class names
   - two Style Groups, dbaisWeb for forms and dbaisRep for reports

10. Default button class that is applied to any button with no display class definition
11. Ability to replace the grid control symbols (+, >, x) with symbols (which may be HTML)
12. Menu styling improvements with the ability to control container size
13. New options in Active Users
    - Phantom Status gives visibility to long-running jobs with ability to kill the process
    - Hit Status displays started, failed and timed out hit details
    - Display Como option for developers to quickly view the important content of their como file
    - Long-running reports and other phantom processes can be reviewed and killed

14. Exclusive Locks extended with new option to display locks in your account only
15. System and Global Parameter functions now maintained via forms rather than editor
16. Form Compare routine provides developers with ability to display differences between two forms
17. Comprehensive improvements and additions to the Reference Manual

18. Improved File Upload
    - allows multiple file uploads
    - is not sensitive to app pool recycling
    - is not prone to session hijacking
    - provides encoded virtual path
    - provides the option to assign unique file names
    - shows only those files having allowed file extensions when picking a file using the Windows File Explorer

19. DesignBais can now provide a Web Service
20. DesignBais can access an external web service such as a SOAP service
21. New Date Picker calendar display
22. Session restoration
23. New and much improved Code Editor
    - Retains file and record name of last routine edited
    - Only prompts to save changes if record has changed
    - Improved find and replace functionality
    - Auto tabbing

**Support for Older Versions**

- Support for DesignBais v6 will cease on 1 May 2019
- Support for pre-v6 will cease on 1 May 2018


We hope that you will embrace the new version and let others know the benefits of using DesignBais!

Regards


**The DesignBais Team**

# DesignBais Database Component

**WARNING**
The installation routine for Unidata will GLOBALLY CATALOG all routines!
You must be in a separate instance of Unidata otherwise you will disturb the existing DesignBais installation.

You must have installed your database (UniVerse, UniData) by following the supplier's instructions. The DesignBais installation procedure will request you to enter the path to the UV directory and set up the required file paths.

The DesignBais database component can be downloaded from www.DesignBais.com. For a Windows installation the zip file is called UVWIN.zip.

Refer to these Release Notes for detailed instructions to load the DesignBais zip folder.

# Installing DesignBais Release 7/8

The Database Component zip file contains 4 accounts:

- DBINET
- DBILOGIN
- DBINET.DEMO
- DBIHELPDESK

The evaluation licence file is already installed in the DBILICENCE file in account DBILOGIN.

For Release 7 the licence text file is called LICENCE.NET (not LICENCE.TXT) as the licence checking in Release 7 has changed from that used in previous versions.

# New Installation of DesignBais

The DesignBais database component is usually installed in the path: C:\DesignBais. You may install it in any location however. You will be prompted for the path to DesignBais during the setup procedure.

From your Downloads folder right-click the database component zip folder:
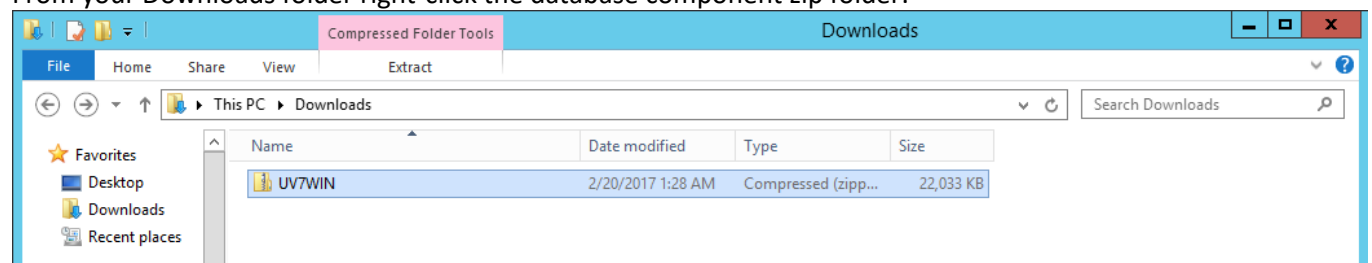
Select Extract All…:
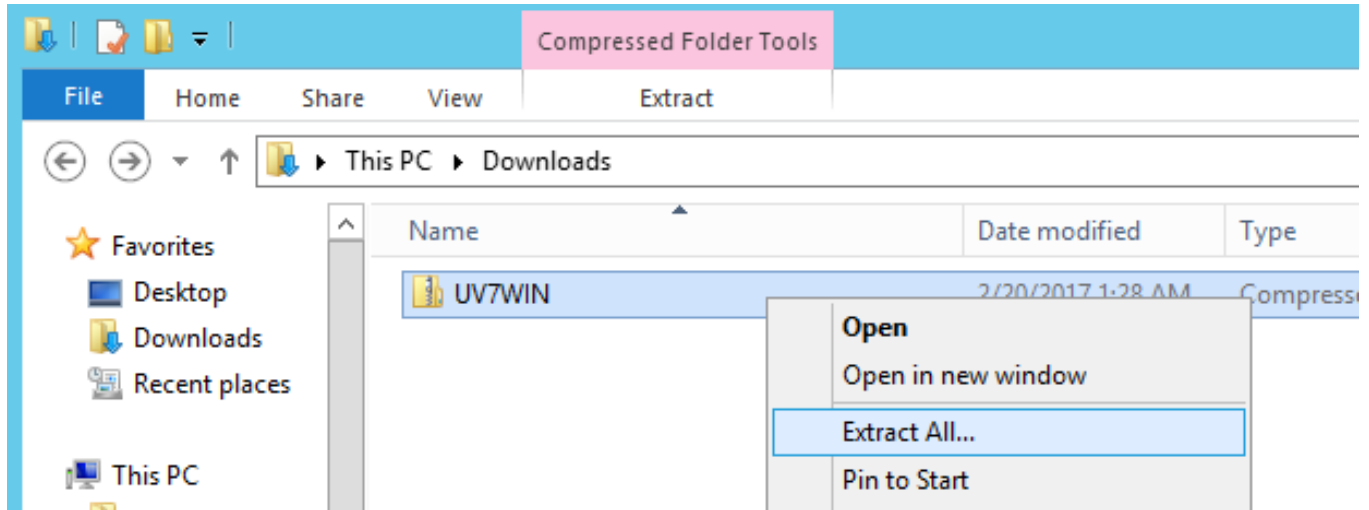


Assuming you are going to install the database component in C:\DesignBais then change the default path in the "Files will be extracted to this folder:" to simply "C:" then click Extract.

The zip folder will be extracted to folder C:\DesignBais as shown:

This will create the DesignBais folder with folders ba and data below it.

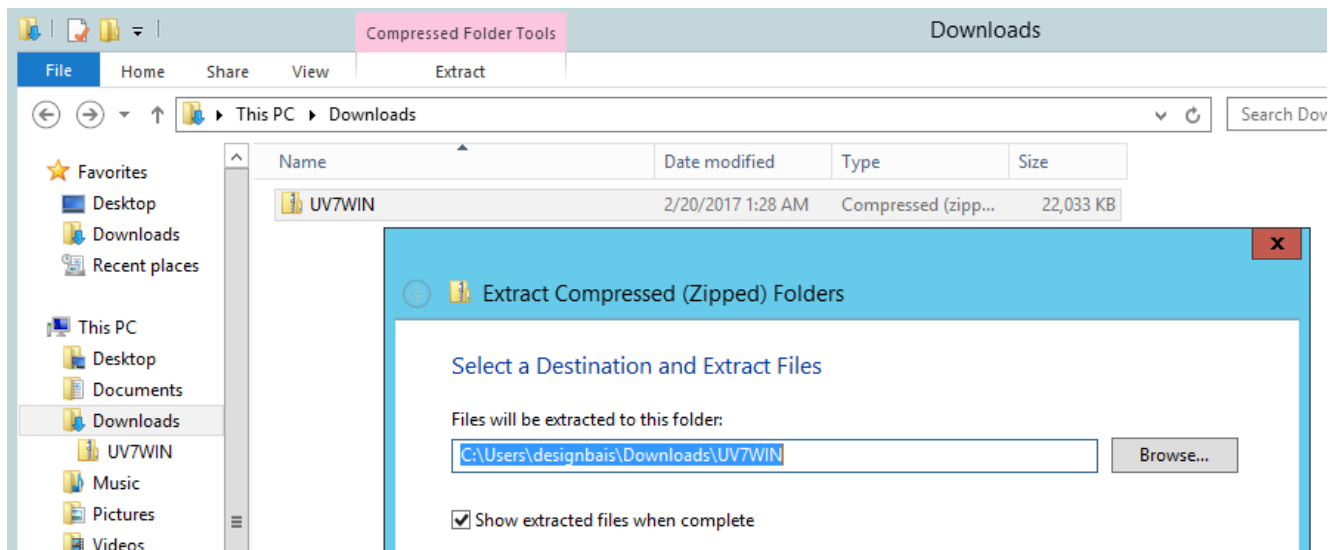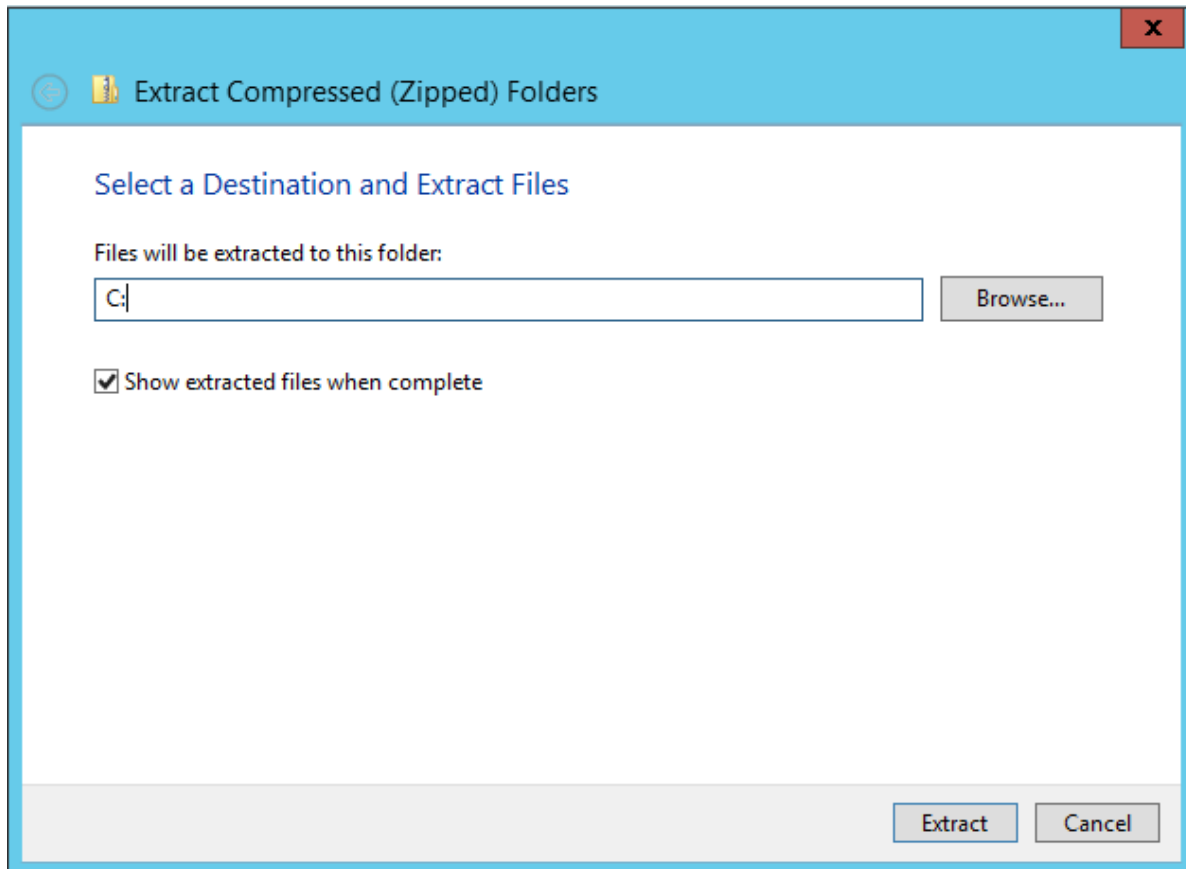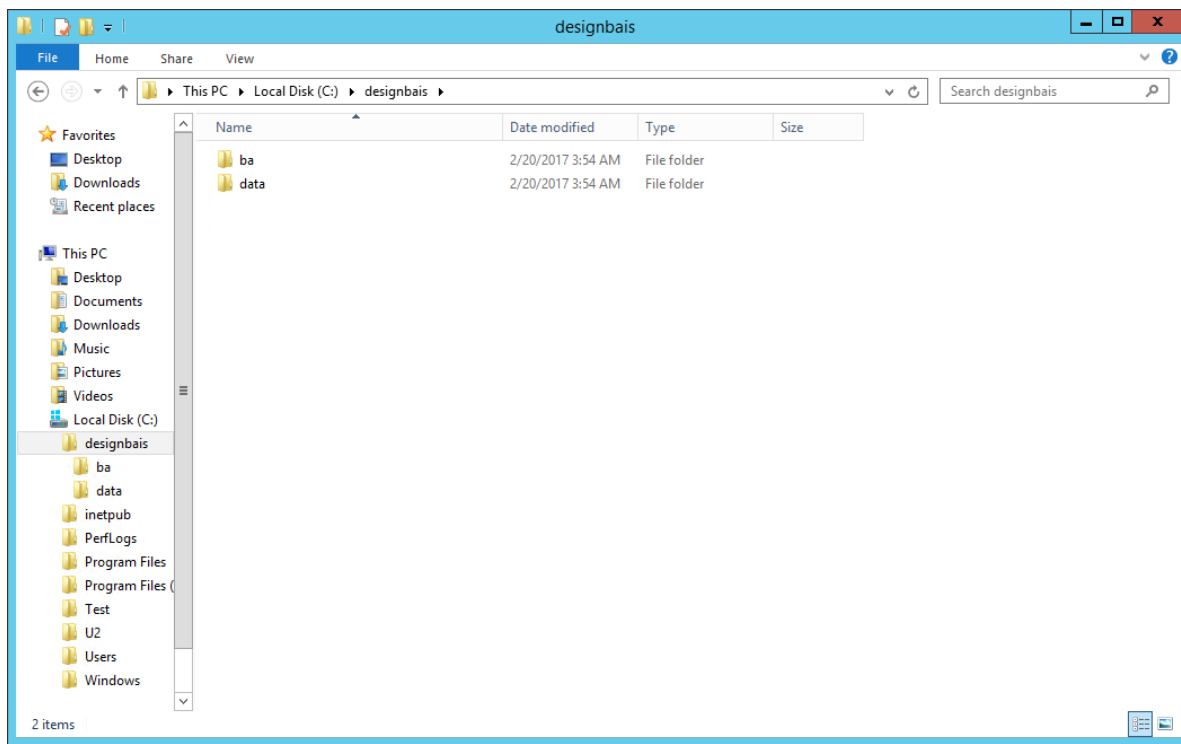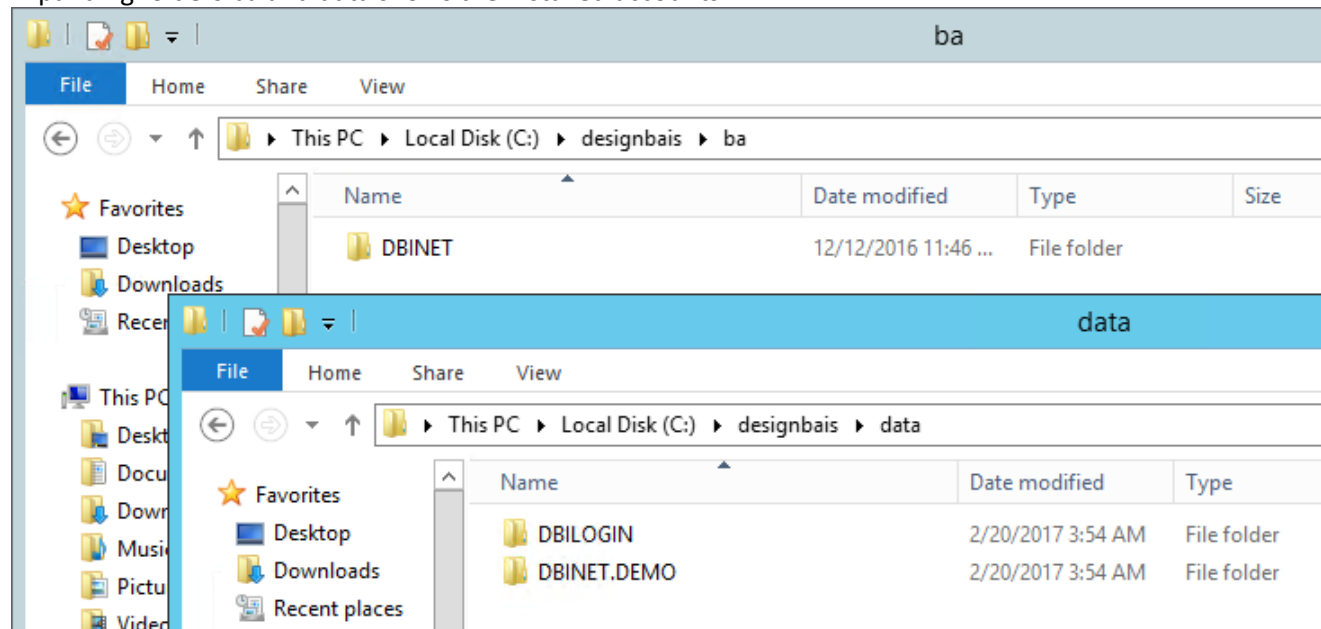Expanding folders ba and data shows the installed accounts:



## Changing the DesignBais File Pointers

By default DesignBais will be installed as folders:
>    DesignBais\ba\dbinet
>    DesignBais\data\dbinet.demo etc
under whichever folder the installation is done, such as C:\.

Use DBI.P.ACCOUNT.SETUPNET to change the file pointers in any DesignBais user account to point to the actual location in which you have installed DesignBais. In the case of a fresh installation you will need to change the pointers to DBINET in accounts DBILOGIN, DBINET.DEMO, and DBIHELPDESK so that they point to the installed location of DBINET.

If you have loaded DesignBais in:
>    E:\HOME\BA\
>    E:\HOME\DATA\
you will need to amend the pointers in the DBINET.DEMO account, for example, to point to the DBINET.

Set up a pointer, manually, to the file DBINET in the DBINET account. This allows you to run the account setup program.

From the command prompt enter RUN DBINET DBI.P.ACCOUNT.SETUPNET. See the section **Upgrading an Existing DesignBais Account** below where the inputs required for this program are explained.

This program will change, for example, the dictionary pointer to DBIHELP from C:\DesignBais\ba\DBINET\D_DBIHELP to E:\HOME\BA\DBINET\D_DBIHELP.

# Updating UniVerse in each Account

Each account must be updated to ensure that pointers to Universe reflect the location of Universe on your system.
You may either use the Windows Command Shell tool to navigate to each of the installed accounts and run the Universe executable or you can use the UniVerse verb UPDATE.ACCOUNT after logging to each account.

**Windows Command Shell**
Open a Windows command shell by running cmd.exe. (Note that PowerShell used to allow this and the images below reflect this. Appeared not to work on a later release. Command shell works just fine.)

If DesignBais has been installed in c:\DesignBais then proceed as follows:
>        cd c:\DesignBais\ba\DBINET

At the prompt enter the path to the uv executable. For example, if UniVerse has been installed in D:\U2\UV, then enter:
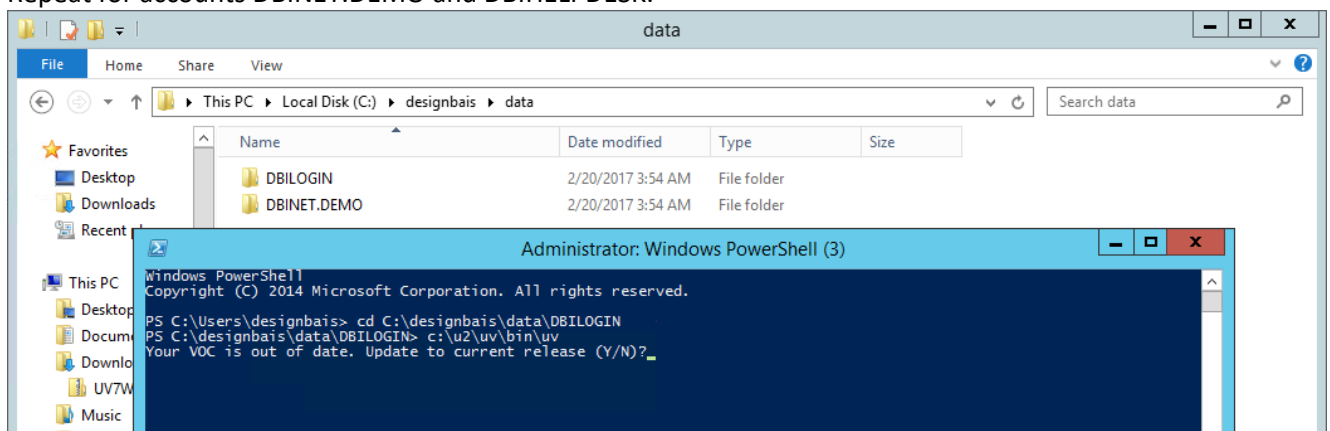
>        D:\U2\UV\bin\uv.exe

Enter Y to update the VOC.
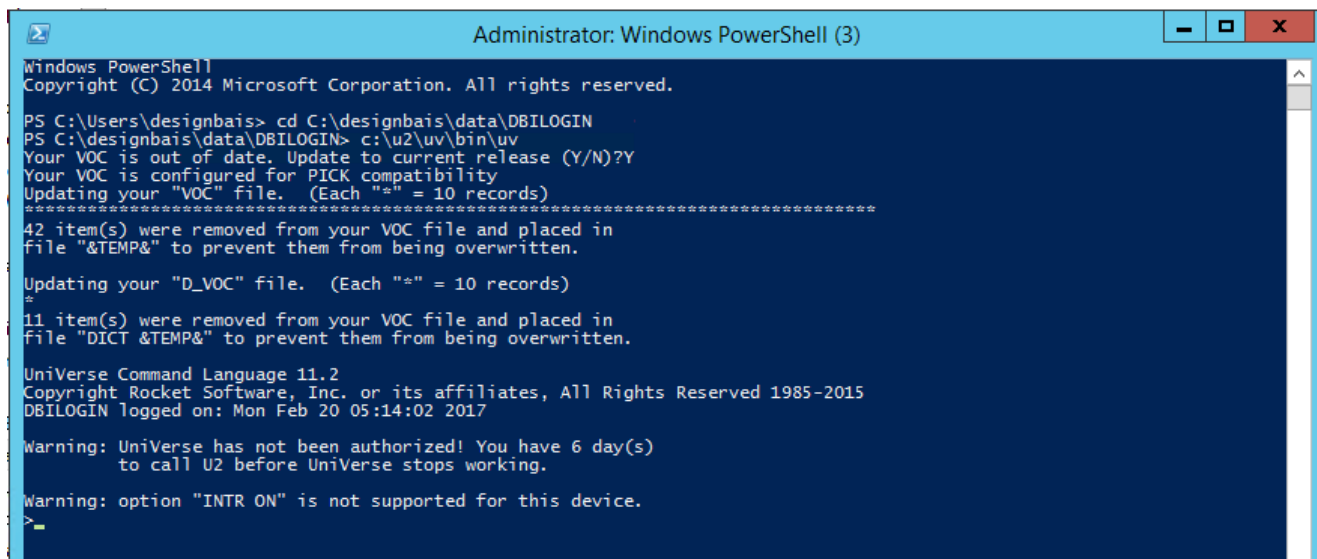
Similarly for the other accounts:

>        cd c:\DesignBais\data\DBILOGIN
>        D:\U2\UV\bin\uv.exe

Enter Y to update the VOC.

Repeat for accounts DBINET.DEMO and DBIHELPDESK.



The update of the VOC will display the following:

---

```
Administrator: Windows PowerShell (3)                            — □ X

Windows PowerShell
Copyright (C) 2014 Microsoft Corporation. All rights reserved.

PS C:\Users\designbais> cd C:\designbais\data\DBILOGIN
PS C:\designbais\data\DBILOGIN> c:\u2\uv\bin\uv
Your VOC is out of date. Update to current release (Y/N)?Y
Your VOC is configured for PICK compatibility
Updating your "VOC" file.  (Each "*" = 10 records)
****************************************************************************
42 item(s) were removed from your VOC file and placed in
file "&TEMP&" to prevent them from being overwritten.

Updating your "D_VOC" file.  (Each "*" = 10 records)
*
11 item(s) were removed from your VOC file and placed in
file "DICT &TEMP&" to prevent them from being overwritten.

UniVerse Command Language 11.2
Copyright Rocket Software, Inc. or its affiliates, All Rights Reserved 1985-2015
DBILOGIN logged on: Mon Feb 20 05:14:02 2017

Warning: UniVerse has not been authorized! You have 6 day(s)
         to call U2 before UniVerse stops working.

Warning: option "INTR ON" is not supported for this device.
>_
```

**UPDATE.ACCOUNT**

The newly loaded accounts will not have an entry in the UV.ACCOUNT file as yet so when logging to each account the full pathname will be required.

> LOGTO C:\DesignBais\ba\DBINET
> > *Ignore the error message "Can't open the 'PTERM.FILE,COMM' file". This displays because the correct path to UniVerse is not yet set in this account.*
> At TCL enter:    UPDATE.ACCOUNT

Repeat this procedure for all the installed accounts DBILOGIN, DBINET.DEMO and DBIHELPDESK.

## Setting Up UniVerse

Log into the Universe UV account. It is helpful to execute the PTERM CASE NOINVERT command here so that upper and lower case will match the caps lock setting on your keyboard. You may need to add this command to your LOGIN paragraph so that it is picked up every time you log in.

The UniVerse UPDATE.ACCOUNT process does not amend the Q-pointer to the UV.ACCOUNT file in UV. You may need to amend this pointer in each of the newly installed DBI accounts.

Create records in UV.ACCOUNT for the DesignBais accounts. These contain the path to the account in attribute 11. For example for the DBINET account the UV.ACCOUNT record will look like this:

```
>ED UV.ACCOUNT DBINET
11 lines long.

----: P
0001:
0002:
0003:
0004:
0005:
0006:
0007:
0008: DesignBais System
0009:
0010:
0011: C:\designbais\ba\DBINET
Bottom at line 11.
```

# DesignBais Web Component

The DesignBais Web Component should now be installed. Download the Web Server Component zip file and the Web Component Manual from the DesignBais website and follow the instructions provided. Do not rely only on the Quick Start section unless you are very familiar with the installation of DesignBais. It is recommended that you work through the entire document.

The Web Component no longer requires installation but rather is a simple folder copy. IIS must be installed and configured as described in the Web Component release document. Please refer to that document to ensure that IIS is set up correctly.

Copy the DBNET.ZIP folder to the folder in which you wish to install DesignBais.

Placing it in the inetpub → wwwroot folder will make it immediately accessible when configuring IIS, but it can be loaded elsewhere and an alias can be set up in IIS.

With DesignBais Release 7 you must **not** have compatibility mode set in your browser.
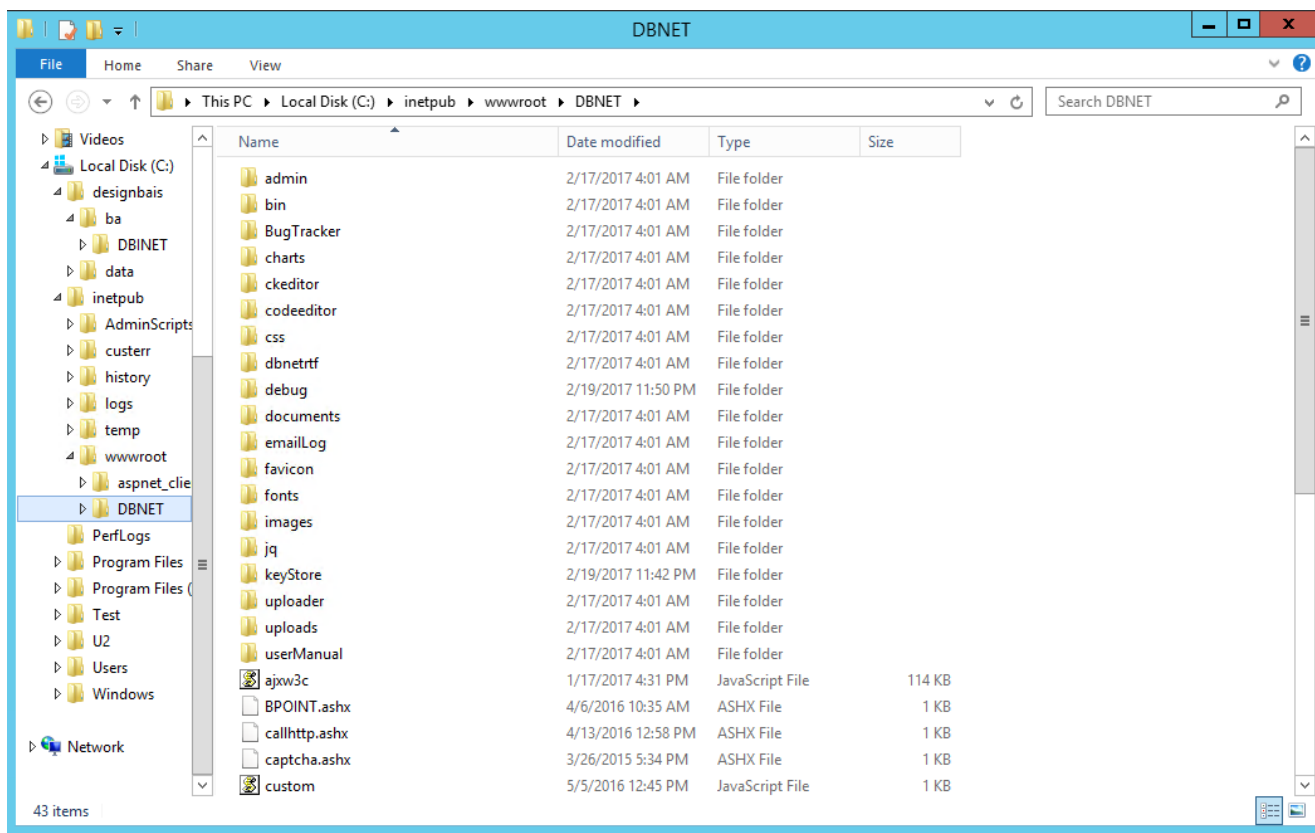
# Completing the DesignBais Data Component Installation

Compatibility mode is not required for Release 7 and will cause a problem if it is set.

Having installed the Web Component you should now be able to open a browser and navigate to http://localhost/dbnet.

If there is a problem try using the url http://localhost (omit the 'dbnet').

With Basic authentication enabled you will be prompted for credentials. Use 'dbnetuser' with password 'dbnetuser'.

If you have enabled Windows authentication only, or both Windows and Basic authentication, and you are logged in as Administrator then you may see either of the following errors:



**DesignBais**

DesignBais Demo Initialisation Error

Default login form not found.



**DesignBais**

Onload error [400]

22/09/2023 10:24:58 AM

support@designbais.com

http://www.designbais.com

This error is because there is no 'Administrator' user in the DesignBais user file DBIUSERS. Log in to windows as 'dbnetuser' in order to proceed.

**Warning**

Release 7 will only function for 60 days if your DesignBais licence has not been upgraded to include a current maintenance certificate.

**Testing Connection to the Database**

There are Connection Tester scripts available to test if the connection to the database is working. They are located in the admin folder of the DBNET website in a folder named 'TestHarness'. See the example below:
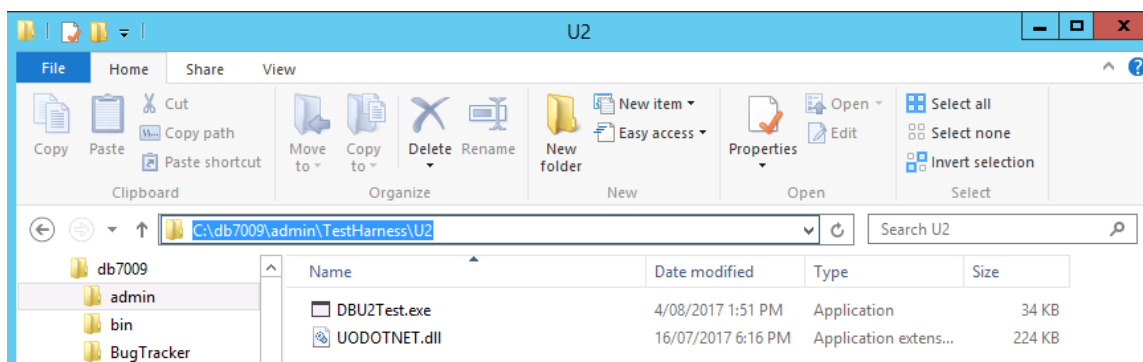
Run the DBU2Test.exe application. You must enter the Host IP address, the database Account Name, the Login user and password. You also may need to change the TCP Port.



If the connection to the data component is successful then you will see "Success!" in green.

# Installation of DesignBais on UniData

Full account paths are used in db.config and DBIUSERS for UniData.

The UniData database component currently does a case sensitive match (via a LOCATE) meaning that there is a difference between "C:\DesignBais\…" and "c:\DesignBais\".

UniObjects on UniData uses …/include/ud_database to define account paths

UD.ACCOUNT is not used.

For example DBIHELPDESK can be defined as below:
DATABASE=demo
UDTHOME=C:\U2\ud81
UDTACCT=C:\U2\ud81\demo
TRACE_LEVEL=0

DATABASE=DBIHELPDESK
UDTHOME=C:\U2\ud81
UDTACCT=C:\DesignBais\data\DBIHELPDESK
TRACE_LEVEL=0

Then DBIUSERS works without the full path:

| designbais | | | Inactive | ☐ | Security Listing |
| --- | --- | --- | --- | --- | --- |
| | | | Date of Latest Changed | | 18/08/2016 |
| designbais | | | Time of Last Change | | 06:46:35 |
| designbais | | | Changed by Who | | designbais |

| + | Group | | Only in Account or Path | |
| --- | --- | --- | --- | --- |
| > x | Development Group. | ▼ | | ^ |
| | | | | ∨ |

Yes ▼

| + | Account or Account Path | Start Form | Start Process - Form Load | |
| --- | --- | --- | --- | --- |
| > x | c:\designbais\data\DBINET.DEMO | DBIFORMS_DEVELOP | | ^ |
| > x | DBIHELPDESK | CSCLIENT_E10 | | |
| | | | | ∨ |

Programs need to be catalogued on UniData – the standard config is to globally catalog which means there are no VOC entries. Object is stored in C:\U2\ud81\sys\CTLG\d\ and shared by all users (most efficient).

# Installation of DesignBais on D3

1. Download the database zip file from the website.
2. Extract the account save file from the zip. This is a file named D3WIN.d3p.
3. Move D3WIN.d3p to the database server.
4. Login to D3 as dm in the dm master dictionary account.
5. Use set-device to check for an existing Pseudo Floppy drive or create a new device using for example:
   - dev-make -t tape -a "c:\port.d3\DesignBais,p"  (any path will do)
6. Copy the extracted D3WIN.d3p file to the file "c:\port.d3\DesignBais"
7. In d3 attach the Pseudo Floppy drive using: set-device or T-ATT n
8. Rewind the pseudo device using: T-REW
9. ACCOUNT-RESTORE FSI:DBINET
   - Name on tape is DBINET
   - Answer no to the 2 questions
10. ACCOUNT-RESTORE FSI:DBINET.DEMO
11. If DesignBais Release 6 or earlier is running on the same server then you must take care to load the Release 7 accounts with new names so as not to overwrite the existing accounts.

    | Release 6 NOT running on this server | Release 6 is running on this server |
    | --- | --- |
    | ACCOUNT-RESTORE FSI:DBILOGIN | ACCOUNT-RESTORE FSI:DBINETLOGIN |
    | ACCOUNT-RESTORE FSI:DBIHELPDESK | ACCOUNT-RESTORE FSI:DBINETHELPDESK |

12. T-REW
13. T-DET
14. If the account names have been changed then logto each account and fix the DBI file pointers. All pointers to DBILOGIN must be changed to point to DBINETLOGIN. The DBISTATS pointer for example must be changed.
15. If account names have been changed then the "Account or Account Path" field in User Maintenance (attribute 15 of DBIUSERS) will have to be amended for user records dbnetuser & DesignBais. See highlighted fields below.



16. Create a new database user called "dbnetuser"

---

17. Logto MVSP and enable the new accounts.
18. In MVSP you must also enable the user "dbnetuser".
19. Follow the instructions above to install the DesignBais Web Component.
20. MVSP documentation states that you only need the start account in MVSP. The start account defined in the db.config must be defined in MVSP in the first instance. Any account that is reached via a data component *logto* must also be defined in MVSP.
21. Note that if D3 maintains the connection thus keeping the port open then it may be necessary to use the following command(s) to release the MVSP connections:
    - NT_INV-FLASH on Windows
    - MVSP.REFRESH on Linux
    - Restarting the connection pool or the web site will also drop the connections
22. If the DesignBais licences are locked they will reset on the first hit after a 20min wait. You may be able to log off the lost connections in Active Users.

**<u>Note:</u>**

Some clients have had problems when upgrading to D3 release 10.3.1.

This version of D3 requires a Flash Re-Compile of application code and of DesignBais code in the DBI and DBINET folders.

DesignBais is currently issued from D3 release 10.2.4.

At this stage DesignBais will not upgrade the release server to 10.3.1. This has the potential to disturb existing DesignBais users on D3, requiring them to re-Flash Compile assuming it is backwards compatible.

Restoring an account on D3: do an account-save, delete-account, restore-accounts (r

# DesignBais Release 7 OnWare port

1. The UPDATE_ACCOUNT VOC entry should be run in all accounts to ensure that all verbs are available.

2. The LOGIN paragraph should include:
   0001: PA
   0002: SET.BASIC.FLAVOR "P"
   0003: ECLTYPE "P"

3. Subroutines must declare dimensioned arrays at the top of the code before any reference within the code to that dimensioned array. Note that this relates to the physical, not the logical, position within the code. It is the OnWare compiler that fails when the declaration is placed physically below the first use of the dimensioned array.

   DIM DBIGROUPS.RECORDS(100) for example must be declared before the first line of code that references the variable.

   Note that this requirement does not apply to UniVerse and UniData. These databases permit the declaration to be anywhere in the code prior to using the array, including in a GOSUB which is below the code that uses the dimensioned array variable.

4. A global catalog pointer has the form:

   1> V
   2> *accountname*BAWEBEXECNET
   3> B

5. A local catalog pointer has the form:

   1> V
   2> $BAWEBEXECNET
   3> BL
   4>
   5>
   6> accountname

6. In the OnWare port the program libraries must be cataloged with the *FORCE* option:

   QSELECT DBI PROGRAMS
   CATALOG DBI LOCAL FORCE

   QSELECT DBINET PROGRAMS
   CATALOG DBINET LOCAL FORCE

# DesignBais Release 7 Linux port (Universe)

DesignBais utilizes the LISTUSER verb from Universe Release 11.3 in order to provide the functionality to kill runaway processes accessed in the Active Users form.

This functionality is not available in older releases.

**Installation Notes**

1. Download the UVRHAT.zip file
2. Extract the UVRHAT.tar file from the zip
3. Copy the UVRHAT.tar file to the Linux system into /tmp (or any desired directory)
4. Login to a shell on the Linux box
5. Change to the directory where you would like to install DesignBais: cd / or cd pathname
6. Extract the tar file using the command: tar –xf /tmp/UVRHAT.tar
7. Set permissions so that the uniobjects connection user can read, write and execute as needed.

**Trouble Shooting Linux installations**

Failure to connect to the database server via UniObjects may be because of the Linux firewall. Use "iptables" to check what is set up.

iptables uses three different chains: input, forward, and output.

To see what the policy chains are currently configured to do with unmatched traffic, run the iptables -L -v command.

```
                   :~$ sudo iptables -L -v
Chain INPUT (policy ACCEPT 9380K packets, 11G bytes)
 pkts bytes target     prot opt in      out      source
    destination

Chain FORWARD (policy ACCEPT 0 packets, 0 bytes)
 pkts bytes target     prot opt in      out      source
    destination

Chain OUTPUT (policy ACCEPT 5821K packets, 17G bytes)
 pkts bytes target     prot opt in      out      source
    destination
```

Use the "-L" option as shown:

```
geek@ubuntu:~$ sudo iptables -L | grep policy
Chain INPUT (policy ACCEPT)
Chain FORWARD (policy ACCEPT)
Chain OUTPUT (policy ACCEPT)
geek@ubuntu:~$
```

The grep command gives a cleaner output. In the above screenshot the chains are currently figured to accept traffic.

This is the command to accept connections by default:

iptables --policy INPUT ACCEPT
iptables --policy OUTPUT ACCEPT
iptables --policy FORWARD ACCEPT

By defaulting to the accept rule, you can then use iptables to deny specific IP addresses or port numbers, while continuing to accept all other connections.

If you would rather deny all connections and manually specify which ones you want to allow to connect, you should change the default policy of your chains to drop.

iptables --policy INPUT DROP
iptables --policy OUTPUT DROP
iptables --policy FORWARD DROP

**To clear all the currently configured rules, you can issue the flush command: "iptables –F"**

By default a typical linux installation may not be using iptables. It is recommended that the flush command is used if uniobjects connection problems are encountered**.**

# DesignBais Release 7 jBASE port

The jBASE set up requires:

- A Windows user for each traditional pick account with a home directory being that account.
- A jrcsrc.cmd file in the connection users home directory – see example below.
- Global cataloging works (therefore only catalog in DBINET) if the DBINET bin & lib is included in the environment variables PATH & JBCOBJECTLIST.
- MD/VOC file entries should have full paths to make them unique. DBINET & DBILOGIN need to be in JEDIFILEPATH to open dictionary and data files. jBASE gets confused if the file is also in your current HOME.
- MD file pointers are optional. MD file pointers in DBINET.DEMO, where the file & dictionary are local e.g. DBCLIENT, have been deleted. But MD file pointers are required for the DesignBais files where the dictionaries are located in DBINET but the data is local e.g. DBIFORMS.
- DBIFORMS

    C:\DesignBais\data\DBINET.DEMO\DBIFORMS
    C:\DesignBais\ba\DBINET\DBIFORMS]D

    Note "]D" for DICT file (close square bracket)

- DBI.P.ACCOUNT.SETUPNET is a utility program with source provided that will reset the DesignBais file pointers when run from a shell. Refer to the *Installation & Release Notes* Manual.

- There is an upgrade routine "Review File Pointers" which is designed to assist in migration from Version 6 to Release 7. This routine allows you to store file pointer updates for re-running against a restored account that is being migrated. This routine is useful for displaying existing pointers and for changing pointers.

- The DBI.RUN.LAST utility is useful for debugging. If the user has logging turned on the incoming web XML and outgoing database XML are written to the file DBIXMLLOG. DBI.RUN.LAST picks up the last inbound XML file and runs it through BAWEBEXECNET.

- You can run the DesignBais test harness against any 2 argument subroutine e.g. SUBROUTINE FRED(DATAIN,DATAOUT) to test the database connection outside of DesignBais. The DATAOUT variable set in your code will display in the "Return from database" text area.


Example jrcsrc.cmd file:

```
@ECHO OFF
set HOME=c:\DesignBais\data\DBINET.DEMO
set JBCRELEASEDIR=C:\jBASE\CurrentVersion
set JBCGLOBALDIR=%JBCRELEASEDIR%
set PATH=%HOME%\bin;c:\DesignBais\ba\DBINET\bin;%JBCRELEASEDIR%\bin;%PATH%
set JEDIFILEPATH=%HOME%;c:\DesignBais\ba\DBINET;c:\DesignBais\data\DBILOGIN
set JEDIFILENAME_SYSTEM=C:\jBASE\SYSTEM
set JEDIFILENAME_MD=%HOME%\VOC
set JBCEMULATE=universe
```

```
set JBCDEV_BIN=%HOME%\bin
set JBCDEV_LIB=%HOME%\lib
set JBCOBJECTLIST=%HOME%\lib;c:\DesignBais\ba\DBINET\lib;%JBCRELEASEDIR%\lib
set JBCDATADIR=%JBCDATADIR%\jbase data
set JBCSPOOLERDIR=c:\jbase\jspooler
set JBCBASETMP=%HOME%\tmp\jBaseWork
set INCLUDE=%JBCRELEASEDIR%\include;%INCLUDE%
set LIB=%JBCRELEASEDIR%\lib;%LIB%
set JBCLOGNAME=%USERNAME%
```

Example db.config

```
<entryPoint qcode="jbRhat">
  <loginHost>172.31.6.82</loginHost>
  <BASUBROUTINE>BAWEBEXECNET</BASUBROUTINE>
  <loginHostType>JBASE</loginHostType>
  <loginAccount>DBINET.DEMO</loginAccount>
  <loginUser>dbnetuser</loginUser>
  <loginPassword>dbnetuser</loginPassword>
  <loginPublicUser>dbnetuser</loginPublicUser>
  <requestTimeoutSeconds>360</requestTimeoutSeconds>
  <debugUser>dbnetuser</debugUser>
  <enableXSSshield>false</enableXSSshield>
  <allowDomainNamesInLoginNames>false</allowDomainNamesInLoginNames>
  <convertLoginNamesToLowercase>true</convertLoginNamesToLowercase>
  <enableDetailedErrorMessages>true</enableDetailedErrorMessages>
</entryPoint>
```

# DesignBais Release 7 OpenQM port

The setup routine DBI.P.ACCOUNT.SETUPNET creates a LOGIN paragraph isf not already present:

```
   * QM LOGIN Paragraph
  IF DB.FLAVOUR="QM" THEN
    READ LO FROM F.VOC,"LOGIN" ELSE
      LO = 'PA'
      LO<-1> = 'PTERM CASE NOINVERT'
      LO<-1> = 'OPTION PICK ON'
      LO<-1> = 'OPTION FORCE.RELOAD ON'
      WRITE LO ON F.VOC,"LOGIN"
    END
  END
```

You need to ensure that the above commands are in the LOGIN paragraph of all QM accounts that access DesignBais.

The setup routine also ensures that the $BASIC.OPTIONS item is in the VOC of each account:

```
  IF DB.FLAVOUR="QM" THEN
    READ BO FROM F.VOC,"$BASIC.OPTIONS" ELSE
      READ BO FROM F.DBI,"$BASIC.OPTIONS" THEN
        WRITE BO ON F.VOC,"$BASIC.OPTIONS"
      END
    END
  END
```

If you have set up $BASIC.OPTIONS prior to loading DesignBais then you should review the $BASIC.OPTIONS in the DBINET account and ensure that your options are compatible.

The $BASIC.OPTIONS need to be defined as per the DBINET account version in all BASIC directories or program performance is not stable.

# DesignBais Release 7 Onsystex port

Basic Code compiler differences:

DATAREC = CHANGE(DATAREC,'PROGRAM.NAME = "DBIUNPACK"','PROGRAM.NAME = "':ID:'"',1)          ;*#EXCLUDE OS
Onsystex does not like the *occurrence* argument shown in red above.

You can use instead: **EREPLACE**(*expression*, *substring*, *replacement* [,*occurrence* [,*begin*] ] )

The following steps are required:
- Add *dbnetuser* and any other required DesignBais users to the *PDP_Users* file. Either use the utility *PDPCONFIG* or manually edit the *PDP_Users* file.

  Right click the server and pick User Maintenance
  Right click the server and pick Add/Remove Accounts
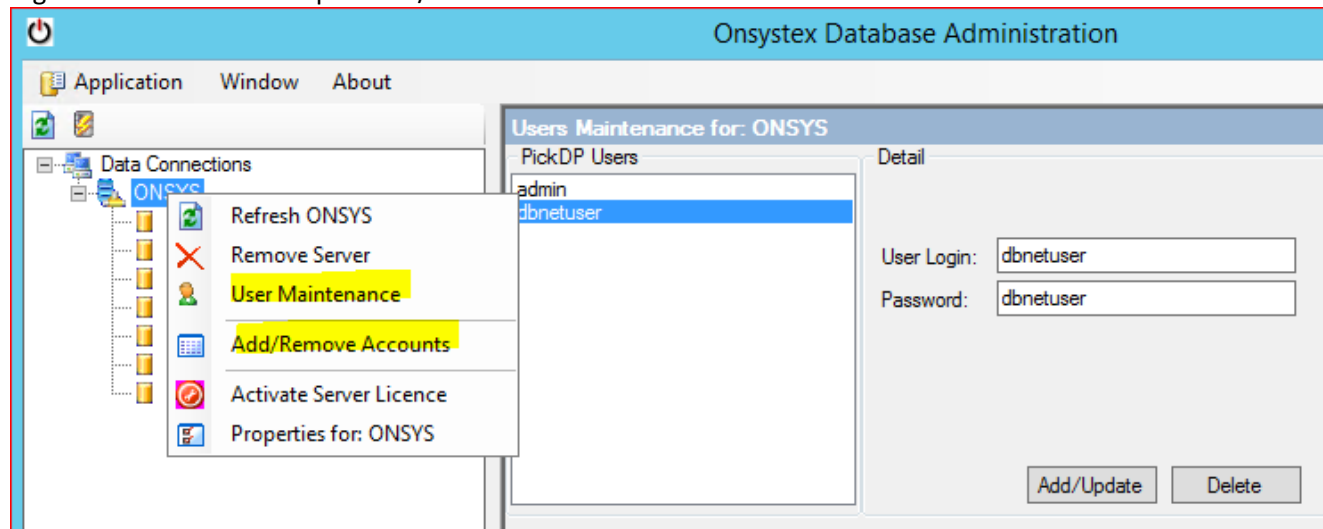


- The SERVER name on inetd must match the entry in <loginHostType>

If you encounter the following error:



you may have to increase the following settings:

- #OAS_MaxCatalogBytes=1048576
  OAS_MaxCatalogBytes=10485760


You may have to adjust C:\Onsystex\oas100\Bin\include\oasDBConf

OAS_MaxSizeBasicObject=357200

It may need to be bigger to accommodate the DBINET subroutine DBI.I.DBIFORMS.

- #OAS_MaxSizeBasicObject=307200
  OAS_MaxSizeBasicObject=357200

You may need to restart to OaSys to activate these changes.

# DesignBais Release 7 MVON# port

1. Comment lines in basic code cannot contain a semicolon.

   - The following comment line in basic code is permitted in Universe:

     *GARB  15/08/18 Allow suppression of item dropdown list in Code Editor form D80; include Q pointer files*

   - In MVON# the compilation fails because of the semicolon.

2. The MATWRITE error seemed to require an ELSE clause in one routine but not in another. This needs to be investigated.

# Creating a New Account and Installing DesignBais

The program DBI.P.ACCOUNT.SETUPNET allows you to install DesignBais in any new or existing account.

Assume you wish to create a new account called JLTEST.

Proceed as follows:

- Create-account JLTEST.

- Log to JLTEST.

- Create a Q-pointer called DBINET to the DesignBais DBINET file in the DBINET account.

- From the command prompt enter RUN DBINET DBI.P.ACCOUNT.SETUPNET. See the section **Upgrading an Existing DesignBais Account** below where the inputs required for this program are explained.

- This will install DesignBais in the new account JLTEST

- Return to your existing DesignBais account containing the DesignBais tools menu.

- In Users maintenance select the user or users that are to have access to the new account JLTEST and add a start form of DBIFORMS_DEVELOP for each user. Refresh the browser. The new account JLTEST will then be available in the Account Selection dropdown enabling you to log to the new account.

Note for D3

If you encounter this error then you must change folder permissions and add full control for all users to the keyStore folder.
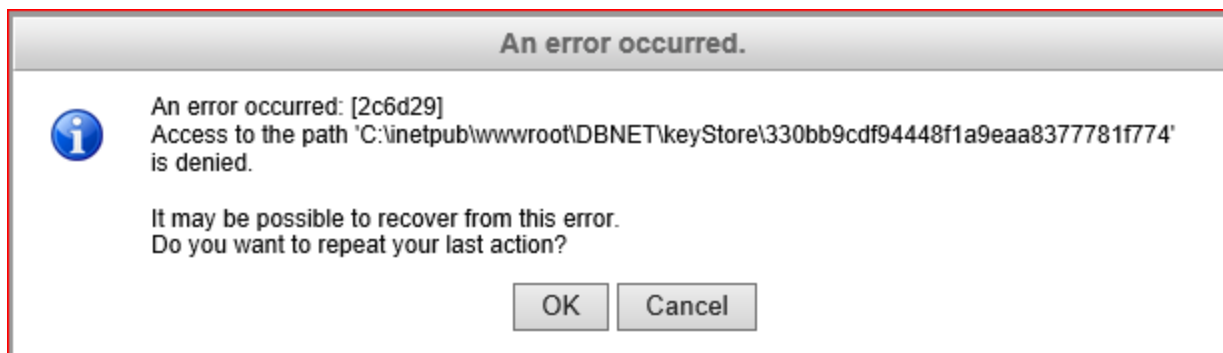


These messages are displayed at end of a D3 account restore. They should be answered with N.

# DesignBais Upgrade

An upgrade of the Database or Web Component of DesignBais can be undertaken as follows. Provided the compatibility between Webserver and Database Server versions, which is based on the first two digits of the version number, is preserved then either one or both of the components can be upgraded.

**Web Component**

- Download the new DBNET.zip web component

- Stop IIS

- Copy the existing web component (in for example c:\inetpub\wwwroot\DBNET) to …DBNET_PREV
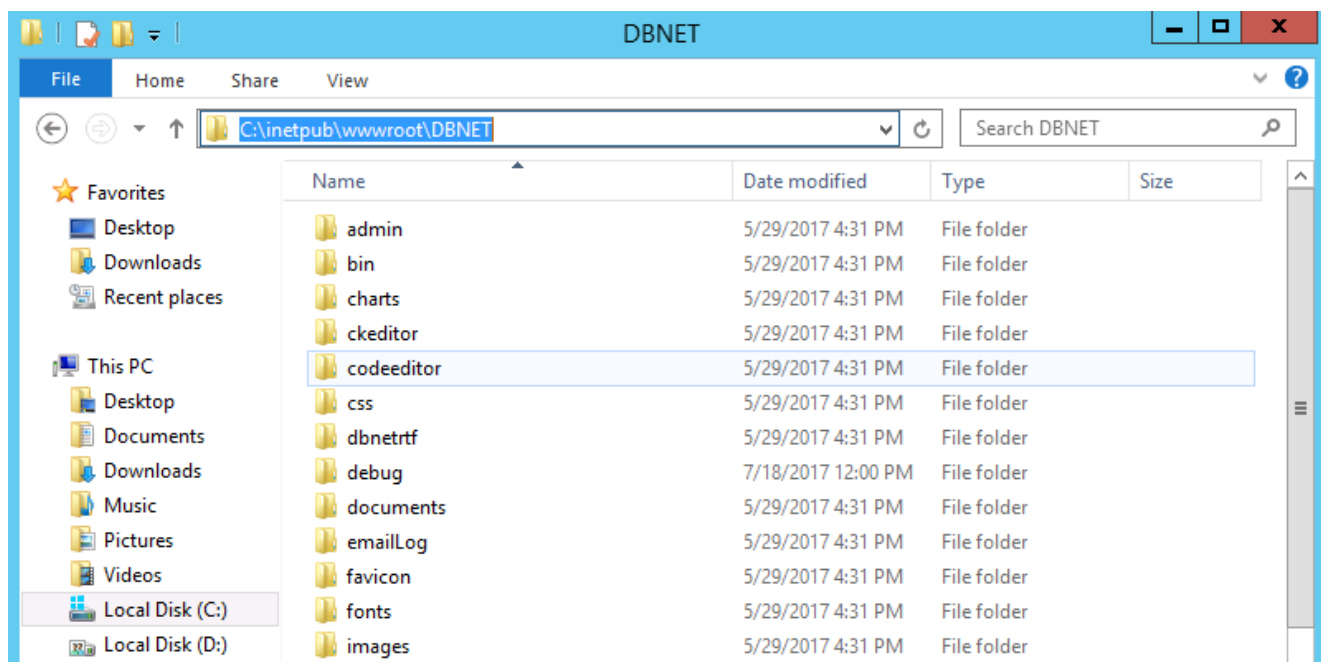


- Unzip the new web component DBNET into wwwroot.

- Copy db.config and web.config from the previous version (DBNET_PREV in this example) into the new web component.

- Copy images from the images folder into the new web component images file.

- If you have your own css or java script files then these will need to be copied from the previous version into the new web component.

The following files should be reviewed when upgrading the web component since the version from the current web component may need to be carried forward into the upgraded web component. The paths below assume that the DesignBais website is called *DBNET* and is installed on the C drive:

| File Name | Location | Notes |
|---|---|---|
| db.config | C:\DBNET\admin | Always carried forward |
| web.config | C:\DBNET\ | Always carried forward |
| images | C:\DBNET\ | Contains the images for the applications using the website. These are always carried forward. |
| images\db | C:\DBNET\images\db | Specific images in the DesignBais db folder may have been modified. These will need to be copied into the new db folder (with overwrite). |
| htmlMetaTags.txt | C:\DBNET\admin | 3rd party link data |
| custom.js | C:\DBNET\ | Javascript |
| dbpdf.config | C:\DBNET\admin\pdfConsole | Pdf configuration |
| rdv2 | C:\DBNET\ | Contains the sites and themes folders |
| sites | C:\DBNET\rdv2 | The responsive design application pages reside in this folder under sub-folder names. The sites folder in the DesignBais download is empty so existing pages will be undisturbed. |
| themes | C:\DBNET\rdv2 | The standard themes such as gray.css reside here. Site specific themes may exist and need to be carried forward. |
| Res | C:\DBNET\ | Contains the 4 files: css, fonts, images and meta for each work folder. The res folder in the DesignBais download is empty so existing files will be undisturbed. |
| compatible_w3c.css | C:\DBNET\css | If the site has modified the top menu css than css/compatible_w3c.css needs to be retained. |

**Database Component**

- Copy the DBINET account to DBINET_PREV.

- Extract the DBINET account from the database component zip file and replace the existing DBINET with the new account.

- Steps 4, 5 and 6 of the section *Upgrading an Existing DesignBais Account* below must be performed in all active accounts that use DesignBais.

- Restart IIS

- Finally you will need to call up a style in the Style Definition tool and click the Submit button in order to rebuild the DesignBaisstyle.css style sheet.

- Refresh the browser by entering CTRL F5.


**Note for D3**

D3 requires that both data and dictionary levels of DesignBais files are local in every account. It is normal in, for example, a UniVerse account to have a local DBIFORMS file DATA level but the dictionary level points back to the DBINET account.

On D3 the dictionary level must be local so run the program DBI.P.UPDATE.ACCOUNTNET in every user account to update the DesignBais file dictionaries.

On D3 the command *CHANGE(STR,"<DIV ","!")* will change a string containing the lower case string "<div":
  A = "<div >fred</div>"
  B = CHANGE(STR,"<DIV ","!")
  CRT B
This will yield output of: !>fred</div>

### case Command

The **case** command toggles case-sensitivity on the current port, or displays its present condition when used without options.

**Syntax**

```
case {{options}
```

**Parameter(s)**

| options | f | Toggles off case sensitivity. |
| | | NOTE—Case insensitivity is the system default. |
| | n | Toggles on case sensitivity. |
| | s | Suppresses output of the status message. |

On D3 the MD entry with the same name as the account is executed on login. Adding *case* to the login is recommended:

MD DBINET.DEMO
001 n
002 case (n s

# Upgrading an Existing DesignBais Account

You must ensure that you have received a valid licence with a current maintenance certificate before installing Release 7 on a live server.  If you are in doubt of the current maintenance status for one of your servers, please email support@DesignBais.com.

1. In this version there is a Build Identifier in the Common Block Subroutines DBI.COMMON and DBI.SUB.COMMON. The Build Identifier for 7.0.2.45 is **1731344905**

   You must ensure that your common block inserts have these build numbers.  If not, there may be some new functionality in Release 7 that will not perform as expected.

2. You will **not** have to recompile your old DesignBais source code to be compatible with Release 7.
3. Compile the basic program in DBINET called DBI.P.ACCOUNT.SETUPNET. Source is provided and can be amended if required. This program will prompt for operating system, database type, DesignBais directory and shared definition directory. The defaults are WINDOWS, UNIVERSE, c:\DesignBais, null if you press <Enter> at each prompt.
4. The DesignBais directory is the location of the data component. This is a folder called "DesignBais" containing two subfolders "ba" and "data". By default this is installed on the "c" drive at "c:\DesignBais".
5. The shared definition directory refers to an optional arrangement where your forms, reports and selects are held in a central location and referenced from multiple working data accounts. In this arrangement the pointer for the DBIFORMS file in one of your data accounts may be of the form:
   > VOC item DBIFORMS:
   > <1> F
   > <2> d:\DesignBaisdefinition\DBIFORMS
   > <3> c:\DesignBais\ba\DBINET\D_DBIFORMS
   > where "d:\DesignBaisdefinitions" is the shared definition directory and "c:\DesignBais" is the DesignBais directory.

6. >DBI.P.ACCOUNT.SETUPNET

   **Important Note:**
   **If there is no *Shared Definition Account Full Path* entered below, meaning that the DBIFORMS file and other DBI files are local to the account, then the of DBI File Dictionary level VOC pointers will not be changed by this routine. If a *Shared Definition Account Full Path* is entered then DBI File Dictionary level VOC pointers will be changed to point to that shared account.**

   *WINDOWS, LINUX, UNIX, AIX - default is <WINDOWS>*
   Enter operating system:

   *UNIVERSE, UNIDATA, IDEAL, D3, ONWARE, OPENQM - default is <UNIVERSE>*
   Enter Database:

   Enter the path to the DesignBais Directories BA and DATA - default c:\DesignBais):
   Enter the DesignBais Master account name - default DBINET
   Enter the DesignBais Login account name - default DBILOGIN

   Enter the Shared Definition Account Full Path or <CR> if None:

This program will:

Set up required Q pointers to DBI source account files:
        DBINET
        DBINET.O
        DBI
        DBI.O
        DBIHELP
        DBISYSFILES
        DBISYSFORMS
        DBISYSPROP
        DBISYSSELECT

Set up Login Q pointers:
        DBIGLOBAL
        DBIGROUPS
        DBILICENCE
        DBISESSIONS
        DBISTATS
        DBIUSERS

Set up Local Files with Dictionaries shared with the DBINET source account:
        DBFINDEXDEFN
        DBIAUDIT
        DBIAUDIT.EXT
        DBIBACKUP
        DBICHK
        DBICHKEXTRACT
        DBICODEBLOCK
        DBICON
        DBIEOP
        DBIFILES
        DBIFORMS
        DBIFORMHTML
        DBIGLOSSARY
        DBIMENUS
        DBIPARMS
        DBIPROP
        DBIREPORTS
        DBIRULE
        DBISELECT
        DBISTYLE
        DBISTYLEGROUP
        DBIUSERLOG
        DBIXMLLOG
        DBLIB
        DBICODEBLOCK.O
        DBLIB.O

Create the standard DesignBais Style group for reports called "dbaisRep"
Create the standard DesignBais Style group for forms called "dbaisWeb"

Catalog all required routines in both the DBI, DBINET and DBICODEBLOCK basic subroutine libraries.

If you run DBI.P.ACCOUNT.SETUPNET there is no need to do step 7 below.


7. There may be new programs in Release 7 than were not in previous versions. For DesignBais to function properly, you will need to perform the following in all active accounts that use DesignBais:

QSELECT DBI PROGRAMS
CATALOG DBI

QSELECT DBINET PROGRAMS
CATALOG DBINET FORCE
- The use of FORCE saves entering Y to override any existing catalog versions.
- On UniData the CATALOG DBINET FORCE will catalog globally so it need only be done in one of your active accounts that use DesignBais.

If Code Blocks are in use then:

SELECT DBICODEBLOCK.O
CATALOG DBICODEBLOCK


8. SELECT DBIFORMS = "DBI]"
SORT DBIFORMS
The above command will alert you as to whether you will need to delete any forms with a name commencing with "DBI" (see step below).

The Style Group for DesignBais is now named dbaisWeb. When you first start DesignBais Release 7, it will have the incorrect fonts displayed. You must perform the following to correct this.
- Run Style Definition form.
- Select any style by clicking the Style search label.
- Click the **Submit** button.
- Click OK on the message advising that the browser must be refreshed.



- To refresh your browser enter CTRL F5.

9. Occasionally DesignBais forms remain in the file DBIFORMS file. This only causes a problem during upgrades. To get the new versions of all DesignBais forms, perform the following for the DBIFORMS file in each of your data accounts:
   - SELECT DBIFORMS = "DBI]"
     *If any of your application filenames start with DBI then you will need to exclude your forms from the selection*
   - DELETE DBIFORMS
     All forms for Release 7 will then be sourced from DBISYSFORMS.

10. The DBISESSIONS file must have a pointer in the DBILOGIN account in order for DesignBais to function.

11. The DBISTATS file must exist in the same folder as the DBILICENCE file. DBISTATS is a new file in Release 7. It must be created in your DBILOGIN account. All data accounts using DesignBais Release 7 must have a pointer to DBISTATS.

12. DesignBais allows users to start in any account on the system provided that the start account:
    - has a Q pointer to the DBISESSIONS file in the DBILOGIN account or
    - has a file pointer with a path that matches the path to DBILOGIN recorded in the UV.ACCOUNT file (or equivalent file on other database types).

13. If you wish to retain styles that originated in DBISYSFORMS on your current or a previous version of DesignBais, then it is imperative that you copy and rename the DBI account prior to loading the new version of DesignBais.

    - Then, after loading a new version, you may run the upgrade routine "Import Styles from Previous Release of DesignBais". This is found on the Upgrade/Migration Tools side menu option:

      Upgrade/Migration Tools → DesignBais Upgrade → Upgrade Routines

    - This will load, into the DBISTYLEGROUP and DBISTYLE files in the new installed version, all style groups that are in your current version and not in the new version. All styles that are used on DBIFORMS in the DBIF.FIELD.DISPLAY.CLASS.LIST that are not in the new version will be also loaded.

14. Note that if you wish to retain a standard DesignBais style that you have modified and which is stored under the same name as the standard DesignBais style then you will need to re-name it. You must assign a name that is not the name of any standard DesignBais style. This needs to be done before executing the upgrade routine.

# Using DBI.P.ACCOUNT.SETUPNET to check for new DesignBais Files

The DesignBais installation routine DBI.P.ACCOUNT.SETUPNET now has an option to create missing files without amending existing file pointers.

This copes with the scenario where a new file like DBIRULE is added to DesignBais and needs to be added to an existing Release 7/8 account.

```
DBI.P.ACCOUNT.SETUPNET - Setup DesignBais in this account

Enter END or Q to exit at any prompt.

Operating System : WIN
Database         : UNIVERSE

Use DBI.P.UPDATE.ACCOUNTNET to copy A,S,F dict items from DBINET

Defaults are stored in DBIGLOBAL or DICT,DBINET item CUSTOM.INPUT

OK to Continue? (Y/<N>) Y

Create new DBI files only (do not update existing pointers)
& only catalog missing programs (Y/<N>) Y

COMO DBAIS established 11:16:05 12 MAR 2020
Enter the path to the DesignBais Directories (E:\HOME\)
Location :

Do the BA & DATA Sub-directories exist (Y)? : Y

Enter the Designbais Master account name (DBINET)
Master Account: _
Enter the DesignBais Login account name (DBINETLOGIN)
Login Account:

The Shared Definition Account is where DBIFORMS resides (if DBIFORMS is local th
en press <CR> here)
Enter Shared Definition Account Full Path or <CR> if None (NULL) :

No files updated

No new programs were found. All programs were already cataloged.
COMO completed. 11:17:46 12 MAR 2020
>_
```

In this example no new files were created because all required files already existed. All routines were already cataloged.

DBI.P.ACCOUNT.SETUPNET creates a como called DBAIS as it runs so you can see what you entered, what the program did, and any errors (except in D3 which does not support como).

All required DBI and DBINET programs are catalogued by this routine.

If you do not select the New Files only option then the following documents the inputs required when running this program.

DBI.P.ACCOUNT.SETUPNET - Setup DesignBais in this account
This routine will install DesignBais into this account.

***Enter END or Q to exit at any prompt.*** [Nice to know – note that this must be upper case]

Requests inputs for:
Operating System: WINDOWS,LINUX,UNIX,AIX - default <WINDOWS>
Database: UNIVERSE,UNIDATA,IDEAL,D3,ONWARE,OAS,JBASE,OPENQM - default <UNIVERSE>

For D3 and Onware:
   Enter the DesignBais Master account name (DBINET)
   Enter the DesignBais Login account name (DBILOGIN)
For all other OS:
   Enter the path to the DesignBais Directories BA and DATA - default
c:\DesignBais
   Enter the DesignBais Master account name - default DBINET
   Enter the DesignBais Login account name - default DBILOGIN
   Enter the Shared Definition Account Full Path or <CR> if None

Use DBI.P.UPDATE.ACCOUNTNET to copy A, S, F type dict items from DBINET to this account.  On D3 the dictionary level must be local so run the program DBI.P.UPDATE.ACCOUNTNET in every user account to update the DesignBais file dictionaries.

***Create new DBI files only (do not update existing pointers) - Y or N<cr>*** **Y**
[Enter Y here if you only want to create missing DBI files]

CUSTOM.INPUT settings
WINDOWS
UNIVERSE
E:\HOME
DBINET
DBINETLOGIN
E:\HOME\BA\BA.SOURCE.UPGRADE

OK to Continue? (CI<custom inputs> or Y or N<cr>) **Y**
[If an item called CUSTOM.INPUT exists in DICT DBINET then it can be used to supply standard responses to the prompts]
[Enter CI or Y to continue]

WINDOWS,LINUX,UNIX,AIX - default is <WINDOWS>
Enter operating system :
[Press <RETURN> here for default of WINDOWS]

UNIVERSE,UNIDATA,IDEAL,D3,ONWARE,OAS,JBASE,OPENQM - default is <UNIVERSE>
Enter Database :
[Press <RETURN> here for default of UNIVERSE]

COMO DBAIS established 14:01:42 28 NOV 2018
[Note that the COMO can only be started once we know we are NOT running D3]

CUSTOM.FILES settings for custom file pointers in GSABRO.TEST7
DBIGROUPS E:\HOME\DATA\DBILOGIN\DBIGROUPS
DBIEOP local
DBIPARMS local
DBFINDEXDEFN E:\HOME\BA\BA.SOURCE.RELNET
[If an item called CUSTOM.FILES exists in DICT DBINET then it defines special file setup for this account]

Enter the path to the DesignBais Directories BA and DATA (c:\DesignBais)
(If BA and DATA not present preface path with NOBA - (NOBA E:\HOME\DESIGNBAIS)
Location: E:\HOME
[Enter the path to DesignBais BA and DATA folders (if these are at C:\DESIGNBAIS then you can press <RETURN>). The NOBA option is to allow for non-standard installations where there is no BA and DATA folder in the DesignBais directory path]

Enter the DesignBais Master account name (DBINET)
Master Account:
[Press <RETURN> here for default of DBINET]

Enter the DesignBais Login account name (DBILOGIN)
Login Account:  DBINETLOGIN
[Press <RETURN> here for default of DBILOGIN or enter the name of your account]

Enter Shared Definition Account Full Path or <CR> if None:
[Press <RETURN> here if DBIFORMS is local to the account otherwise enter the path to the shared DesignBais Definition Account such as BA.SOURCE.RELNET]

***Note that the program runs immediately after entry of the Shared Definition account or <RETURN> for none!***

# Release 7/8 Upgrade Routines

Review these routines and run required options in View mode. Review the output logs using the Upgrade Logs option and assess whether to use the Update mode to fix any reported issues.



Options 1, 12, 13, 16 and 17 are considered mandatory. These should be run.

- Option 1
  Apply new style and dummy amend RUN. print selection forms.
  There is a requirement in Release 7 to amend all 'RUN.' forms associated with reports so that they display correctly.
- Option 12
  Fix form tab index where index exceeds 995.
  Release 7 allows for 40 levels. An additional level is required as modal and layered forms are called from a base form. There is a limit imposed by the browser on the number of tab indexes for each level. For this reason individual forms are limited to a maximum tab index setting of 995.
- Option 13
  Checks that form reads of multivalued fields are performed within multivalue grids.
- Option 16
  Remove erroneous entries from DBIF.FIELD.CONTROLKEY.LIST Form attribute.
- Option 17
  This option effectively fills in the blank attributes of the Style Groups used in the account being upgraded with the style ids from the DesignBais Release 7 Style Groups.

It is recommended that at least the following Upgrade Routines are then executed:

- Option 2
  Report MV Grid non-matching Group or Section name and Field Multivalued not set.
  This routine checks form multivalue grids for non-matching Group and Section Names and for
  missing Field Multivalued flags. DesignBais uses the Group Name (DBIPROP DBIP.ASSOC.GROUP)
  to maintain the association of associated multivalued fields. If fields on a multivalue grid have
  different Group Names there may be problems in maintaining association of associated fields that
  are not on the form. In addition Release 7 requires all grids to have the same section name and all
  fields within a grid to have the Field Multivalued flag checked. Note that Option 2 writes
  temporary records to the DBICON file. It is recommended that the modulo of this file is greater
  than the twice the number of form records in the DBIFORMS file.

- Option3
  Import Styles from previous release of DesignBais
  Note that previous versions of DesignBais utilised browsers that treated classes (DesignBais Styles)
  as case insensitive. This is no longer the case. For example, a style named "buttonSAVE" is now no
  longer the same as a style named "BUTTONSAVE".

- Option 7
  Fix Form Hyperlinks where col or row span needs increasing to avoid truncating the text.

- Option 11
  Fix MV Tab Sequence
  In Release 7 all fields within each multivalue grid must have contiguous tab index values. This will
  report any forms which need to be amended.

# Getting Started with DesignBais Release 7/8

The recommended procedure to move to Release 7/8 is:

- Set up a new testing environment on a separate (virtual) machine. This will avoid impact to your current Production, Testing and Development environments. Remember that on UniData all DesignBais routines are GLOBALLY CATALOGED. Routines within DesignBais which have the same name in the new Release 7 as they do in older versions will be affected! The new Release 7 version will be active!
- Move your existing DBI account into this new environment.
- Move your Test environment into the new environment so that all your current applications are available to test.
- Unzip the DesignBais zip file into the new environment. See above screenshots.
- Create the DBISTATS file in DBILOGIN account and set up pointers to DBISTATS in your data accounts. Note that running DBI.P.ACCOUNT.SETUPNET (see below) will create the pointers.
- Review the Upgrade Routines on the main side menu of the DBIFORMS*DEVELOP form. Run, as a minimum, those that are mandatory.
- Run DBI.P.ACCOUNT.SETUPNET in all application accounts. This will install DesignBais in the account, catalog all DBI routines, and set up pointers to DBINET and DBILOGIN.

# DesignBais Version Number

The DesignBais Version numbers are displayed on the System Parameters form.

| System Parameters | | | |
| --- | --- | --- | --- |
| Type of Database | **UniVerse** | | |
| Web Component Version | **7.0.3.1300** | Database Version | **7.0.2.14** |
| System Description | Development Account - DB.NET | | |

From Release 7 onwards the version number has 4 parts.

Compatibility between Webserver and Database Server versions are based on the first two digits of the version number. This ensures that a 7.1.4.n webserver version will be compatible with, say, a 7.1.5.n database version. If either of the first two digits of the Webserver version number and the Database release number is different, DesignBais will not operate.

# Fixes and Enhancements in Previous Releases

**Fixes and Enhancements in Release 9.1.1.3**

| For Final Release No | Description | Full Description |
|---|---|---|
| **9.1.1.3** | Multivalue Grid Reads after Dialog Response (8*1040) | When a row of data is inserted into a grid via an application subroutine using a button event then the multivalue read is triggered and the grid rows are correctly refreshed.<br>When the insert is confirmed by a dialog box response the multivalue read was not triggered.<br>This has been fixed. |
| **9.1.1.3** | DBMail parameters (8*1047) | System and Global DBMail parameters maintenance now displays the Email From address and warns if this parameter is blank.<br>DBMail requires this field, or a user email address, in order to send emails. |
| **9.1.1.3** | Upgrade Routine 41 bug fix (8*1048) | Bug fix Upgrade Routine 41. The call to DBI.G.CREATE.FILEDEFNET was clearing the list of selected file ids. This error was only apparent when running in update mode since the view mode does not call the DBI.G.CREATE.FILEDEFNET subroutine. |
| **9.1.1.3** | Fix Bad IF Statement (8*1049) | The basic code line 'IF THISACTION = 'INSERT' OR 'APPEND' THEN' caused a non-numeric error in D3. The line has been modified to read 'IF THISACTION = 'INSERT' OR THISACTION = 'APPEND' THEN' which is as it should have been originally. |
| **9.1.1.3** | Report Field Export Action in Report Designer (8*1050) | Export action for Mult-values has been reworded to simply Export Action as it can be used to Ignore single-valued fields.<br>It is now also available for Derived Fields. |
| **9.1.1.3** | Fix 12 Sep 2023 for D3 Reports (8*1051) | The basic code statement LONG.DATE = OCONV(DATE(),'DL') has been changed to OCONV(OCONV(DATE(),'D'),'MCT') for D3. |

| 9.1.1.3 | Time Format (8*1052) | 5:00 pm is allowed by the web component javascript validation but fails in the data component for UniVerse, UniData and OnSystex.<br>The DesignBais Data Component will now replace ' am' or ' pm' with just 'am' or 'pm'.<br>Other spaces will be trimmed and replaced with ':' since the web component javascript allows the string '5 00pm'. |
|---|---|---|
| 9.1.1.3 | Express Reporting (8*1053) | Allow derived fields in eXpress reports.<br>PROCESS.EVENT = 'EXPRESS DERIVED'<br>PROCESS.EVENTSOURCE = THIS.FILE:'_':THIS.PROP<br>PROCESS.PARAMETER = derived parameter from field definition<br>DBVALUE = field value<br>DBRECORD = item array<br>DBKEY = item ID<br><br>Return the calculated value in DBVALUE.<br><br>Also the Output Conversion Subroutine and the Output Conversion will be applied.<br>Previously only the defaults based on the field type were applied.<br><br>PROCESS.EVENT = 'OUTPUT CONVERSION'<br>PROCESS.EVENTSOURCE = THIS.FILE:'_':THIS.PROP<br>DBVALUE = field value<br><br>For eXpress Reports the PROCESS.PARAMETER will be set to one of the following depending<br>on the report row:<br>EXPRESS DETAIL<br>EXPRESS SELECT<br>EXPRESS BREAK<br>EXPRESS TOTAL |
| 9.1.1.3 | Report Cells Containing HTML (8*1054) | The HTML encoding flag allows HTML to be displayed in a report column.<br>Following the change to flag the column type for eXcel conversion, any HTML in a non-string field will cause the eXcel conversion to fail.<br>To address this problem the DesignBais engine now does a simple extract of the data between the first '>' and the second '<' is applied when the data starts with '<'. |

| 9.1.1.3 | Undefined Error in showDialog (8*1055) | The DesignBais javascript delimiter is a string containing ';   ' (semi-colon + 3 spaces).<br>Undefined errors may occur if the delimiter appears in the wrong place.<br>Text captured in D3 when creating a file had leading spaces which triggered an undefined error.<br>All ';   ' delimiters are now removed when creating a showDialog message,  other than the final (required) delimiter. |
|---|---|---|
| 9.1.1.3 | Add HTML Encode Option to eXpress Fields (8*1056) | A new eXpress Encode HTML property has been added to Field Definitions to enable simple HTML to be used in Output Conversion Subroutines or the Derived Subroutine. The flag will default back to the Report Encode HTML flag. |
| 9.1.1.3 | eXpress Report Template File (8*1057) | TEMP records used when an eXpress Report is produced are now deleted from the eXpress Report Template File on return from the report preview form. |
| 9.1.1.3 | Wordindex Searches (8*1058) | The OFR rdesignbaisdrop now has HTML encoding turned off to allow HTML display regardless of the default settings. |
| 9.1.1.3 | Initialise DBMODALPOS (8*1059) | DBMODALPOS is normally set at the end of the routine that parses the inbound XML packet from the web server. If the parsing process exits early (e.g. web service calls) there was an unassigned variable error in BAWEBEXECNET. This has been fixed by initialising DBMODALPOS earlier. |
| 9.1.1.3 | Google Address Field Check (8*1060) | Previously the check for the Google address custom attribute was looking for just the word 'address'. This picked up address in say the placeholder attribute.<br>Now using INDEX(CUSTOM.ATTR,'address=',1) |
| 9.1.1.3 | THIS.FIELD.ROW.MM Undefined Error (8*1061) | A problem, causing a variable undefined error, in report routine DBI.P.DBIREPORTSNET has been fixed. |
| 9.1.1.3 | D3 MV Title Text in Designer (8*1062) | The first field was being reused for all MVs in the association in Forms Designer grid.<br>Typo in the REMOVE statement fixed for D3. |
| | | |

| 9.1.1.3 | Folding Text Calculation (8*1063) | To calculate the depth of buttons we needed to allow for borders and padding. |
|---|---|---|
| 9.1.1.3 | Unassigned Variable in DBI.G.GET.XMLNET (8*1064) | IDWINDOWOLD only available in 3rd hit during session start up. |
| 9.1.1.3 | Control + Enter Fields (8*1065) | Control + Enter fields either need an event or to be flagged with dbEnter='true' in order to trigger the keydown event. |
| 9.1.1.3 | Set Focus in Selection Form (8*1066) | Auto-focus was by-passed if DBRETURN.TO.FIELD was carried forward from the base form. |

**Fixes and Enhancements in Release 9.1.1.2**

| For Final Release No | Description | Full Description |
|---|---|---|
| 9.1.1.2 | Data Extraction (8*1025) | If a phantom process was invoked to perform the extraction then the output record was produced and then cleared in the timer event. This has been fixed. |
| 9.1.1.2 | Workflow (8*1026) | The method of transferring email attachments in the workflow phantom routine has been modified. The attachments are written directly to the DBMail attachment file rather than by using XCOPY.<br>Changes to the DBMail email template are now reflected in the workflow email template review form. |

| 9.1.1.2 | Add Column Type, Time Format and Numeric Decimals to Excel Conversions (8*1027) | We now pass the columnType, timeFormat and decimals to the Excel conversion process. Also added the following for numerics: <br>   `<prefix>` <br>   `<thousands>` <br>   `<decimalchar>` <br>   `<suffix>` <br> where: <br> `<prefix>` will be '$' if specified in the output conversion. It will also be extracted from the international format string. <br> `<thousands>` will be ',' if specified in the output onversion. It will also be extracted from the international format string. <br> `<decimalchar>` will default to '.' unless the international formatting is used in the output format - [prefix, thousands, decimal separator, suffix] <br> `<suffix>` may be specified in the international format string. |
| 9.1.1.2 | DesignBais Menu Maintenance (8*1028) | DesignBais menus are released via the DBISYSFORMS file with ids in the form 'MENU*':menu_name. <br> DesignBais menus can now only be copied to the local DBIMENUS file, using the Copy Menu button in the header of the DesignBais Menu Definitions tool, by assigning the menu a new name. <br> DesignBais menus are deleted from the local DBIMENUS file whenever a new release is loaded. This is necessary so that any updated Designbais menus in a release will display correctly. <br> A list of local menus, in DBIMENUS, with the same name as any DesignBais menu, is now displayed in the Menu Definitions form. This is to remind developers that such menus will be deleted should a new release be taken. |

| 9.1.1.2 | Workflow Process List report (8*1029) | This on-form report displays the details of a workflow process, showing all the steps, the rules for each step, and the fields that the rules depend on.<br>It is run from a link in the header of the Workflow Process Setup form.<br>Click events have been added to the report to allow the user to move directly to the step and rule maintenance forms. |
|---|---|---|
| 9.1.1.2 | Password Fields (8*1030) | Password fields are no longer sent to the web by default. DesignBais now does not update password fields returned from the web empty since password fields on a form (not recommended by our security experts) were getting cleared when a record was updated.<br>To allow backwards compatibility there is now a 'Transmit Passwords' option in the Global Admin parameters. If checked this will send passwords to the web component as per pre-8.9 releases. |
| 9.1.1.2 | Code Editor Lock (8*1031) | If a record could not be opened the editor lock was being left unless the editor 'close' function was utilised.<br><br>The setting of the lock is now delayed until after all errors have been checked. |
| 9.1.1.2 | Workflow (8*1032) | Workflow email templates are now validated to ensure that no resource file name is the same as any attachment file name.<br>DBMail does not allow for the same file name, regardless of extension or path, to be in the list of resource file names and the list of attachment file names. |
| 9.1.1.2 | DBMail Attachment and Resource File Names (8*1033) | DBMail attachment file names and resource file names must be unique as they a collected into a common folder before the email is compiled.<br>File names are now checked in DBI.G.DBMAIL before creating the .xeml record. |

| 9.1.1.2 | eXpress Reports changes (8*1034) | Fields selected for an eXpress report can now optionally be highlighted.<br>The eXpress Setup allows you to define how you want the highlight applied, either as a change to the font color or a change to the background color of the field name in the list of fields down the left of the form. You can select to not highlight.<br>In all cases the selected fields in the list to the left of the form will display with a small bullet after the name. The highlighting is applied as an extra to make the selections stand out.<br>There is a new button 'Link Details' on the eXpress report creation form.<br>Click this button to display the available files linked to your eXpress report file via the 'Provides Key to File' entry on the field properties records flagged as available to eXpress reports. |
| --- | --- | --- |
| 9.1.1.2 | UniVerse Selection Conversion for D-Type (8*1035) | An option to create D-Type dictionaries in UniVerse was added for the EDA interface.<br>The DesignBais select conversion dictionary items, created by adding '_s' to the dictionary name, that are associated with any D-type dictionary in Universe will still be created as A-types. |
| 9.1.1.2 | New DesignBais file DBIEXPRESS for eXpress Field Lists (8*1036) | From Release 9.1.1.2 field lists used by the eXpress Report function are held on a new file named DBIEXPRESS.<br><br>Prior to this release these field lists were originally held on DBIFILES. In release 8.9.1.1 the field lists were moved to DBIPARMS in order to allow these lists to be moved to production environments independently of DBIFILES records. |

| 9.1.1.2 | File Properties (8*1037) | A problem was reported when attempting to retrieve a File Properties record that is locked by another user. The locked message displayed but after clicking OK the form was no longer rendered correctly.<br>The problem was rectified by clearing DBDEVACTIONS<1,4,1> in the AFTER.READ of the File Properties form DBIFILES*D10. This avoids the recall of the same reocrd which was causing the error to be repeated. |
|---------|--------------------------|--------------------------------------------------------|
| 9.1.1.2 | Output Fields (8*1038) | When a section is disabled then DesignBais was assigning the class attribute 'pointer-events:none' to output fields in the section.<br>This prevents the mouse from selecting the displayed text and hence it could not be copied.<br>This has been fixed so that output field text can be selected and copied. |
| 9.1.1.2 | Change to DesignBais style dbaisReportTable (8*1039) | The border has been removed from this style record.<br>The style previously included this attribute: border: 1px solid transparent |
| 9.1.1.2 | Excel Conversions Text Encoding (8*1041) | The text encoding option of ASCI or UTF-8 has been made redundant.<br>For dbMail users emailing reports as Excel DesignBais now forces ASCII encoding.<br>For the csvTOxlsx option DesignBais now forces UTF-8.<br>The option for Excel Textencoding has been removed from User, System & Global maintenance forms. |
| 9.1.1.2 | Demo Form DISPMENU Unassigned Variables Fixed (8*1042) | SYSTEM.LOGO and SIDEMENUOFFSET fixed in the menu build routine. They could also be set when calling DBI.G.MENUSNET. |
| 9.1.1.2 | Deleted Redundent Routines (8*1043) | Deleted the following:<br>DBI.P.ACCOUNT.SETUP.UNIXNET<br>INSTALLDB.CACHE<br>INSTALLDB.JBASE<br>INSTALLDB.QM<br>INSTALLDBNET<br>KEEP.SOURCE.CACHE<br>KEEP.SOURCE.JB<br>KEEP.SOURCE.UD<br>KEEP.SOURCE.UV |

| 9.1.1.2 | Form and Report Designers AFTER READWRITE Added (8*1044) | The update from Form and Report Designers had the 'BEFORE READWRITE' event. The 'AFTER READWRITE' event has been added. |
|---------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 9.1.1.2 | Remove Path from DBMail ID (8*1045) | UniData uses full path names in DBIACCOUNT. When used in DBMail the full path name has now been removed for UniData. |
| 9.1.1.2 | SAMPLE vs SAMPLING records (8*1046) | A number of DesignBais subroutines that use the SAMPLE modifier have been amended to use SAMPLING in the version ported to the D3 database. Amended routines are: DBI.I.ACC.COMP DBI.I.DBIEXPORT DBI.I.DBIRULE DBI.I.PMCODE DBI.I.PMLINK DBI.I.PMRULE DBI.I.UPGRADE |

**Fixes and Enhancements in Release 9.1.1.1**

| For Final Release No | Description | Full Description |
|----------------------|-------------|------------------|
| 9.1.1.1 | Set eXpress Field Group (8*995) | Set eXpress Field Group via form DBIPROP_M10 has been amended so that the user remains in the same 'Display fields' radio button option after setting the eXpress Field Group via the 'Set eXpress Field Group check box option in column 6 of the on-form report. |
| 9.1.1.1 | eXpress Report changes (8*996) | Clicking on the header row of a field in the eXpress Report opens the (eXpress) Field Properties form DBIPARMS_M10.A. Initial focus has moved from the first field (Field Header) to the Column Width field since it is this value that is most often requiring a changed value. |
| 9.1.1.1 | Checklist Refresh Page phantom (8*997) | There is now an option to use a phantom process when running the Refresh Page option. This prevents a possible time out when the checklist page contains a large number of items. |

| 9.1.1.1 | Checklist changes (8*998) | When viewing the checklist created from the DesignBais Backup Changed Items form, a flag is passed to prevent the refresh-on-read process being called. The user can still select to refresh the checklist from the Page Actions dropdown after the checklist is displayed. The refresh-on-read flag can now be reset by un-checking the Refresh this Checklist On Read checkbox and then submitting the checklist. |
|---|---|---|
| 9.1.1.1 | DesignBais installation changes (8*999) | The DesignBais load routines, in releases after 8.9.1.2, now delete DesignBais menu items from the local DBIMENUS file. This forces all DesignBais menus to be read from the DBISYSFORMS file, thus ensuring that the version from the release being installed is displayed. This action is undertaken in the DBIUNPACK routine and in DBI.P.ACCOUNT.SETUPNET. |
| 9.1.1.1 | Extract SYS File Records (8*1000) | This tool provides developers with a method of extracting DesignBais tool forms and field properties, menus, reports and selects from the DBISYS files into the local DBI files. The tool has been amended to allow developers to change the filename that forms part of the record ids that are being extracted. For example developers can extract all field properties for the DBIUSERS file and write them to the local DBIPROP file with record ids matching their specified Q pointer to the DesignBais DBIUSERS file. The field property for DBIUSERS*DBIU.NAME can therefore be copied as QDBIUSERS*DBIU.NAME where QDBIUSERS is a Q pointer, in the VOC of the application account, that points to DBIUSERS. |

| 9.1.1.1 | Web Component change (8*1001) | When exporting a report to eXcel an error was displayed: 'ERROR in converting uploads/filename'. This was caused by scientific notation symbol (e.g. 4E030). The value 4E030 was intended as a string. However, the DesignBais web component conversion interpreted this as a scientific number. The web component now ignores scientific notation since it is not currently possible for the conversion to know if the input 4E030 is intended to be a scientific number or a string. The data type for a column will, in a future release, be provided by the data component and at that time it will be possible to interpret whether a value is a string or a scientific notation symbol. An error was reported in date conversion when exporting to eXcel. This was caused by a .Net framework feature. The .Net function used to test if a string could be converted to date was returning True for some inputs that were not actually dates (e.g. '01-23-2023-000'). This .NET framework interpretation was too keen to find a date in a given string. The web component has been changed to use a different function. The culture parameter is not used for date conversions when exporting to eXcel. The date format as defined in the data component is used. |
| --- | --- | --- |
| 9.1.1.1 | Code Editor form changes (8*1002) | The Check for DBI Items process now checks that all DBINET subroutines are cataloged correctly. In addition it will report the presence of DBINET subroutines on the DBLIB file, and on any basic library file that is listed in the user's Default Basic Library Files list. These changes are designed to assist developers to find the cause of problems with DesignBais. In some cases it has been found that a DBINET routine has been cataloged to the DBI file rather than to DBINET. |

| 9.1.1.1 | DBI.G.PDFREPORT Allows for PDF to be Named (8*1003) | CALL DBI.G.PDFREPORT (CABINET.FILE,DRAWER.NAME,REPORT.NAME,PDF.PARAMS) will convert the nominated report in the nominated drawer and cabinet to a PDF with a unique file name. You can now set the PDF.PARAMD<5> to the target file name. DesignBais will add 2 characters to the file name for the conversion process. The first character will be either lower case 'l' or 'p' indicating landscape or portrait mode. The second character is a random character to ensure uniqueness. The supplied file name must not contain dots nor path delimiters. |
|---|---|---|
| 9.1.1.1 | DesignBais Cabinets (8*1004) | The Cabinet - Report Interface form now displays the name of the selected cabinet and drawer. These names appear in the text label field across the centre of the form following the 'Delete the Drawer' button. |
| 9.1.1.1 | Inline Scripts to be file references (8*1005) | A penetration test recommended removing all <script> tags that include javascript code. They should instead use a src attribute. This involved moving several our functions into the ajxw3c.js file as part of the web component rather than setting them from the data component. Some other cleanups resulted from the review. DBDATEFORMAT<1,4> for min date and DBDATEFORMAT<1,5> now utilised for datepicker settings. DBDATEFORMAT may get corrupted by developers. The fix now also resets the min and max date as above. The CloseOverlay function is not referenced and was removed. The prepareDatePickers function now has several arguments and has been moved to the ajxw3c.js file. The ofrPressed function was a clean move to the ajxw3c.js file. |
| 9.1.1.1 | Responsive Design Form in Checklist (8*1006) | When a Responsive Design form is added to a checklist the header, footer and template forms will be added as well. |
| 9.1.1.1 | Enter Key Button during Header and Footer Merge (8*1007) | If the header form has an enter key button attached but the base form doesn't then the header enter key button will be applied to the form. Similarly, in turn, for the footer form. This is done in DBI.G.DYNAMIC.FORMNET with INSERT (header) or APPEND (footer) actions. |

| 9.1.1.1 | Corruption of data in MV Grids (8*1008) | A problem has been fixed where the DesignBais engine was rebuilding a MV grid and then under certain circumstances clearing what it had just built. This happened after a WRITE with 'Null after' set and during the write process the same form was invoked from a PROCESS.STACK. |
|---|---|---|
| 9.1.1.1 | PDF Conversion for Emailed Reports (8*1009) | The page break string for emailed reports has been changed to match PDF conversions done by the PDFConsole. |
| 9.1.1.1 | Exclusive lock error message display (8*1010) | The file name and record id are now displayed when an exclusive lock is already set prior to attempting to access a record. Previously the message was generic 'Unable to gain an exclusive lock on the required record'. |
| 9.1.1.1 | Workflow Step Completion process (8*1011) | There is now the option to run a basic subroutine when a workflow step is completed. |
| 9.1.1.1 | PDF Console List (8*1012) | Include REP2PDF.PICKMASK and REP2PDF.BASEPATH when identifying PDF Console along with REP2PDF.SERVER and REP2PDF.BASEURL. Stopped PDFConsoles may now be purged after a number of days. Date and Time of Status changes are now displayed. Changes to pickMask and baseUrl settings do not identify the previous setting that has changed. Items may now be manually removed from the list to keep the display tidy. <isPDFStarted> removed from XML packet. |
| 9.1.1.1 | Attribute 9 of System Parameters record id 0 (zero) (8*1013) | Attribute 9 of System Parameters record id 0 (zero) with the program equate name of DBIPM.DATE.FORMAT.COMMAND has been removed from Designbais. The command, if present, was executed by the DesignBais engine but the effect of the command was subsequently overridden by the date format processing driven by the Date Format field DBIPM.W3C.FORMAT. DBIPM.W3C.FORMAT (attribute 54) is used to ensure that date fields are interpreted correctly by the database server. This must exist in either of the following two formats: d-m-yyyy,D4,1 for International date formats m-d-yyyy,D4,0 for USA date formats |

| 9.1.1.1 | Phantom calls from DBI.P.CALLDBSUB (8*1014) | The DesignBais program DBI.I.CALLDBSUB can be used to initiate a tracked phantom call from within DesignBais applications.<br>The routine has been modified to set the date format, to be used by the phantom process,<br>from System Parameters, or if null, from Global Parameters. If not set in either then the date format will default to International format. |
|---|---|---|
| 9.1.1.1 | Form Button Action to Perform when Enter is Pressed (8*1015) | Forms Designer allowed search labels (<a> elements) to be selected as the Form Button<br>Action to Perform when Enter is Pressed, but they did not work at run time.<br>This has been amended so that <a> tags will now work.<br>No special style has been applied. |
| 9.1.1.1 | Selection Process (8*1016) | In the previous release DesignBais tried to do away with the vertical scrollbar in selection processes in order to remove the allocated space. The intention was to rely on the paging calculations so that a scrollbar was not required. Unfortunately, wrapping text in a search display field made the page calculation fail.<br>The vertical scrollbar has be restored.<br>When calculating the number of rows per page we now allow for the horizontal scrollbar if required. |
| 9.1.1.1 | RD Output Field Form (8*1017) | The RD Output Field Form RD140 was not collapsing correctly when button only was checked.<br>This was due to the option to hide the File and Field dropdown lists.<br>Section names changed in 10 forms to make it a sub-section so that the collapsing now works correctly. |
| 9.1.1.1 | CSV to Excel Conversions (8*1018) | Date format will be determined by the web component using the Excel Culture field.<br>The <dateFormat> node has been removed from the XML packet. |
| 9.1.1.1 | Report CSV to XLSX Field Types (8*1019) | The field properties for report fields are stored along side the -XLS output record with a -TYPES suffix.<br><br>Alpha, Numeric, Date or Time are flagged as S, N, D or T.<br><br>DERIVED fields have no field properties and hence will be identified via the output format in the report field properties.<br><br>Date fields have been targeted first and other fie;ld types, such as numeric, will be included in a later release. The |

| | | aim is to allow the developer to define the type of field when passing the column format into Excel.<br><br>In the <csvTOxls> packet the dateFormat is a caret separated list corresponding to the report columns rather than a single value. |
|---|---|---|
| 9.1.1.1 | eXpress Changes (8*1020) | The eXpress report variables are cleared when the eXpress Report Table Name is cleared.<br>eXpress Field Group names (in red) are now only displayed when a file linked to the main<br>eXpress report file via a 'Provides Key' is expanded in the field list on the left hand<br>side of the form.<br>In eXpress Setup there is a new option Verbose Testing Mode. This setting only effects<br>users who are members of the Developers or DBAdministrator Groups. Set this option to<br>'Yes' to invoke verbose mode for eXpress Reports . The user como and the phantom output<br>(&PH& for UniVerse) display<br>variables to allow the developer to track the display of fields on an eXpress report. |
| 9.1.1.1 | eXpress Reports (8*1021) | When building a report there is now an option to sample records that have a value in the final column of the report. This change allows developers to more easily determine if a report is displaying the required data without the need to set selection criteria on particular fields. |
| 9.1.1.1 | Cabinets (8*1022) | When a cabinet drawer was deleted the cabinet name and drawer name was not refreshed. This has been fixed. |
| 9.1.1.1 | Data Extraction (8*1023) | The creation of the dropdown selection for the Source File was failing for UniData and OnSystex. This has been fixed. |
| 9.1.1.1 | Forms Designer Field Lasso (8*1024) | When viewing one section then the lasso will now select fields in that section only. It will ignore the hidden fields in other sections. |

**Fixes and Enhancements in Release 8.9.1.2**

| For Final Release No | Description | Full Description |
|---|---|---|
| | | |

| 8.9.1.2 | Express Forms (8*980) | DesignBais tools that use OFR mouse classes have been amended to read the required class (style) from the form stylegroup record. This allows developers who incorporate DesignBais tools into their application to have a common look and feel for all forms.<br>OFR mouseover and mouseout classes were hard coded in releases up to 8.9.1.1.<br><br>They are now read from the form's stylegroup record. |
|---|---|---|
| 8.9.1.2 | Invalid Selection Process (8*981) | Several forms in the Workflow module contained an invalid selection process name in the 'Code' field lookup.<br>These have been corrected.<br>The process PMCODE_FT should be DBIPMCODE_FT.<br>The process PMCODE_OP should be DBIPMCODE_OP. |
| 8.9.1.2 | Email Report when Export action for Multi-values is set to normalise (8*982) | DesignBais reports that display multivalued fields have the option to normalise all columns to the depth of a particular column.<br>A problem was reported that a field with null multivalues was displayed with these null values being replaced with the value contained in the first multivalue of the field when the report was exported to eXcel.<br><br>This has been fixed. |
| 8.9.1.2 | Multiple hideSpinner calls Suppressed (8*983) | The hideSpinner function was invoked multiple times as report HTML records were processed for conversion to PDF. |
| 8.9.1.2 | New Checklist field DBCK.BACKGROUND.INFO (8*984) | A new text field is available on the Page Details form DBICHK_A12. It can be used to record background information relating to the checklist page that you may not want to appear in the full description. |
| 8.9.1.2 | Highchart Template (8*985) | Developers can now create highchart templates for highcharts displayed on a DesignBais form.<br>The name of the template can be entered in the Graph (Chart) Definition form (DBIFORMS*D175) in the Chart Template field, which then saves this name into the form's field default value list.<br>Templates are maintained in the Highchart Templates option in System Parameters. |

| 8.9.1.2 | Form Help (8*986) | The Form Help process has been modified to retain the existing field sequence, if the tab value is zero, when sorting by form tab sequence.<br>A new function 'Review All Form Help Records' has been added to the Form Help header to read and update existing form help records to take account of form changes such as new fields or deletion of existing fields. |
|---|---|---|
| 8.9.1.2 | OFR Cells May be Specified in DBI.G.AJXCMD (8*987) | By setting the target to cell + row number + column number the functions available will be applied to a report cell. The column may be followed by x + child element number.<br><br>In the case below there is a textarea in a cell that is already readonly. Text highlighting on focus can be inhibited by reference to the OFR cell in the SSR function.<br><br>  * Do not select the text<br>   AJX.FUNC = 'SSR'<br>   AJX.DATAIN = 'R.REPORT1'<br>   AJX.DATAIN<2> = 'cell':ROW:'z':TA.COL:'x1'<br>   CALL DBI.G.AJXCMD(AJX.FUNC,AJX.DATAIN) |
| 8.9.1.2 | Designer Defaults (8*988) | Undefined errors fixed when the Close button is clicked. |
| 8.9.1.2 | Selection with Paging (8*989) | The vertical scroll bar has been removed from selections with paging. Be sure to add border-spacing:unset to your report paging style and set the height correctly. |
| 8.9.1.2 | Selection Form (8*990) | Do not allow space in the selection OFR for page controls if the Style Group has 'Select Includes Page Buttons' set. |
| 8.9.1.2 | File open error on D3 (8*991) | The Data Extraction function aborted with a file not open error on the D3 port version.<br>This has been fixed. |
| 8.9.1.2 | Express field sorting error (8*992) | The sorting of fields used by eXpress Reporting has been amended to handle eXpress field group numbers above 9. Fields were previously sort by AL but this caused field group 10 to sort before field groups below 10. |

| 8.9.1.2 | Express Report using the Report Data File option (8*993) | The Report Data File value was not being refreshed in the validation event or the refresh button event. This has been fixed. |
|---|---|---|
| 8.9.1.2 | DBRECCOUNTER in UniData (8*994) | User reported a divide by zero error in UniData as DBRECCOUNTER was being returned as multivalued. After a SELECT Designbais uses RETURNING NREC. We now set DBRECCOUNTER = NREC<1,2> for UD. |

**Fixes and Enhancements in Release 8.9.1.1**

It was found that the UniData query language does not handle dictionary names longer than 31 characters. In release 8.9.1.1 the name of all field properties where the length of the field name exceeds 31 characters will be shortened to be 31 characters or less, including work fields (even though work fields are never used by the query language).

The list of field names effected is shown below:

| Count | File Name | Field Name | Length | New Field Name |
|---|---|---|---|---|
| 1. | DBIEOP | DBEP.CABINET.EMAIL.RECIPIENTS.WK | 32 | DBEP.CABINET.EMAIL.RECIPS.WK |
| 2. | DBIEXPORT | DBIEX.DBMT.ATTACHMENT.PDF.LAYOUT | | DBIEX.DBMT.ATTACH.PDF.LAYOUT |
| 3. | DBIFILES | DBIFI.MINI.PROVIDES.ALTERNATE.SUBR | 34 | DBIFI.MINI.PROVIDES.ALT.SUBR |
| 4. | DBIFORMS | DBIF.FIELD.AFTER.READ.PARAMETER.WK | | DBIF.FIELD.AFTER.READ.PARAM.WK |
| 5. | DBIFORMS | DBIF.FIELD.BEFORE.READ.PARAMETER | 32 | DBIF.FIELD.BEFORE.READ.PARAM |
| 6. | DBIFORMS | DBIF.FIELD.BEFORE.READ.PARAMETER.WK | | DBIF.FIELD.BEFORE.READ.PARAM.WK |
| 7. | DBIFORMS | DBIF.FIELD.REPORT.BRK.PAGE.SUPPRESS | 35 | DBIF.FIELD.REPORT.BRK.PAGE.SUPP |
| 8. | DBIFORMS | DBIF.MULTIVALUE.ADD.PARAMETERS.WK | | DBIF.MULTIVALUE.ADD.PARAM.WK |
| 9. | DBIFORMS | DBIF.MULTIVALUE.INSERT.BEFORE.WK | | DBIF.MULTIVALUE.INS.BEFORE.WK |
| 10. | DBIFORMS | DBIF.MULTIVALUE.DELETE.BEFORE.WK | | DBIF.MULTIVALUE.DEL.BEFORE.WK |
| 11. | DBIFORMS | DBIF.MULTIVALUE.DELETE.PARAMETERS | 33 | DBIF.MULTIVALUE.DELETE.PARAM |
| 12. | DBIFORMS | DBIF.MULTIVALUE.DELETE.PARAMETERS.WK | | DBIF.MULTIVALUE.DELETE.PARAM.WK |
| 13. | DBIFORMS | DBIF.MULTIVALUE.INSERT.PARAMETERS | 33 | DBIF.MULTIVALUE.INSERT.PARAM |
| 14. | DBIFORMS | DBIF.MULTIVALUE.INSERT.PARAMETERS.WK | | DBIF.MULTIVALUE.INSERT.PARAM.WK |
| 15. | DBIFORMS | DBIF.FIELD.DERIVED.PARENTS.FLAG.WK | 34 | DBIF.FIELD.DERIVE.PARENT.FLG.WK |
| 16. | DBIFORMS | DBIF.FIELD.DISPLAY.CLASS.CLEAR.WK | 33 | DBIF.FIELD.DISPLAY.CLASS.CLR.WK |
| 17. | DBIFORMS | DBIF.FIELD.DOES.NOT.INFLUENCE.WK | 32 | DBIF.FIELD.DOES.NOT.INFLUENC.WK |
| 18. | DBIFORMS | DBIF.FIELD.MVHEADER.PARAMETER.WK | 32 | DBIF.FIELD.MVHEADER.PARAM.WK |
| 19. | DBIFORMS | DBIF.FIELD.READ.STEP.DELIMETER.WK | 33 | DBIF.FIELD.READ.STEP.DELIM.WK |
| 20. | DBIFORMS | DBIF.FIELD.REPORT.BRK.PAGE.SUPPRESS | 34 | DBIF.FIELD.REPORT.BRK.PAGE.SUPP |
| 21. | DBIFORMS | DBIF.FIELD.REPORT.BRK.PAGE.SUPRESS.WK | 37 | DBIF.FIELD.REPORT.BRK.PG.SUP.WK |
| 22. | DBIFORMS | DBIF.FIELD.REPORT.HEADER.TEXT.WK | 32 | DBIF.FIELD.REPORT.HEAD.TEXT.WK |
| 23. | DBIFORMS | DBIF.FIELD.SUPPRESS.REPITITION.WK | 33 | DBIF.FIELD.SUPPRESS.REPT.WK |
| 24. | DBIFORMS | DBIF.MULTIVALUE.ADD.PARAMETERS.WK | 33 | DBIF.MULTIVALUE.ADD.PARAM.WK |
| 25. | DBIFORMS | DBIF.MULTIVALUE.DELETE.BEFORE.WK | 32 | DBIF.MULTIVALUE.DEL.BEFORE.WK |
| 26. | DBIFORMS | DBIF.MULTIVALUE.INSERT.BEFORE.WK | 32 | DBIF.MULTIVALUE.INS.BEFORE.WK |
| 27. | DBIFORMS | DBIF.SECTION.CONDITION.REPORT.WK | 32 | DBIF.SECTION.CONDITION.RPT.WK |

| | | | | |
|---|---|---|---|---|
| 28. | DBIFORMS | DBIF.SECTION.INITIAL.STATE.REPORT.WK | 36 | DBIF.SECTION.INIT.STATE.RPT.WK |
| 29. | DBIFORMS | DBIF.SELECT.FIELD.BREAK.FIELD.WK | 32 | DBIF.SELECT.FIELD.BREAK.FLD.WK |
| 30. | DBIFORMS | DBIF.SELECT.FIELD.REPORT.TYPE.WK | 32 | DBIF.SELECT.FIELD.REPORT.TP.WK |
| 31. | DBIFORMS | DBIF.WRITEBEFOREPARAMETERS.LIST.WK | 34 | DBIF.WRITEBEFOREPARAM.LIST.WK |
| 32. | DBIGLOBAL | DBIGO.FDB.FIELD.DISPLAY.CLASS.LIST | 34 | DBIGO.FDB.FIELD.DISPLAY.CLASS |
| 33. | DBIGLOSSARY | DBIGL.TRANSLATE.GLOSSARY.DESC.WK | 32 | DBIGL.TRANS.GLOSSARY.DESC.WK |
| 34. | DBIPARMS | DBIPM.ENTITY.DUPLICATE.TO.DESC.WK | 33 | DBIPM.ENTITY.DUP.TO.DESC.WK |
| 35. | DBIPARMS | DBIPM.EXPRESS.CUSTOM.FIELD.GROUP | 32 | DBIPM.EXPRESS.CUSTOM.FIELD.GRP |
| 36. | DBIPARMS | DBIPM.EXPRESS.EXCLUDE.MINI.TOP.LEVEL | 36 | DBIPM.EXPRESS.EXCL.MINI.TOP.LVL |
| 37. | DBIPARMS | DBIPM.EXPRESS.HEADING.SUBCAT.FCS | 32 | DBIPM.EXPRESS.HEAD.SUBCAT.FCS |
| 38. | DBIPARMS | DBIPM.EXPRESS.MINI.PROVIDES.ALTERNATE | 37 | DBIPM.EXPRESS.MINI.PROVIDE.ALT |
| 39. | DBIPARMS | DBIPM.EXPRESS.MINI.PROVIDES.ALTERNATE.SUBR | 42 | DBIPM.EXPRESS.MINI.PROV.ALT.SB |
| 40. | DBIPARMS | DBIPM.EXPRESS.MINI.PROVIDES.DICT | 32 | DBIPM.EXPRESS.MINI.PROVIDE.DICT |
| 41. | DBIPARMS | DBIPM.EXPRESS.MINI.PROVIDES.SUBR | 32 | DBIPM.EXPRESS.MINI.PROVIDE.SUBR |
| 42. | DBIPARMS | DBIPM.EXPRESS.SUBCAT.USER.GROUP.WK | 34 | DBIPM.EXPRESS.SUBCAT.USR.GRP.WK |
| 43. | DBIPARMS | DBIPM.FDB.FIELD.DISPLAY.CLASS.LIST | 34 | DBIPM.FDB.FIELD.DISPLAY.CLASS |
| 44. | DBIPARMS | DBIPM.U.FIELD.DISPLAY.CLASS40.WK | 32 | DBIPM.U.FIELD.DISP.CLASS40.WK |
| 45. | DBIPARMS | DBIPM.U.STYLEGROUP.ENTER.CLASS.WK | 33 | DBIPM.U.STYLEGRP.ENTER.CLASS.WK |
| 46. | DBIPMCODE | PMCOD.DBMT.ATTACHMENT.PDF.LAYOUT | 32 | PMCOD.DBMT.ATTACH.PDF.LAYOUT |
| 47. | DBIPMCODE | PMCOD.DBMT.ATTACHMENT.XLS.DELIMITER | 35 | PMCOD.DBMT.ATTACH.XLS.DELIMITER |
| 48. | DBIPMCODE | PMCOD.DBMT.REVIEW.FIELD.REPL.SEQ | 32 | PMCOD.DBMT.REVIEW.FLD.REPL.SEQ |
| 49. | DBIPMCODE | PMCOD.DBMT.TEMPLATE.DOMAIN.ADDRESS | 34 | PMCOD.DBMT.TEMPLATE.DOMAIN.ADDR |
| 50. | DBIPMCODE | PMCOD.DBMT.TEMPLATE.REPLY.TO.ADDRESS | 36 | PMCOD.DBMT.TEMPLATE.REPLY.ADDR |
| 51. | DBIPMSTEP | PMSTP.DBMT.TEMPLATE.DOMAIN.ADDRESS | 34 | PMSTP.DBMT.TEMPLATE.DOMAIN.ADDR |
| 52. | DBIPMSTEP | PMSTP.DBMT.TEMPLATE.REPLY.TO.ADDRESS | 36 | PMSTP.DBMT.TEMPLATE.REPLY.ADDR |
| 53. | DBIPROP | DBIP.EXPRESS.SEL.MINI.REPORTING.WK | 34 | DBIP.EXPRESS.SEL.MINI.REPORT.WK |
| 54. | DBIPROP | DBIP.SUBROUTINE.TO.DEFINE.ALTERNATE | 35 | DBIP.SUBROUTINE.TO.DEFINE.ALT |
| 55. | DBIREPORTS | DBIR.COL.HEADER.DISPLAY.CLASS.WK | 32 | DBIR.COL.HEAD.DISPLAY.CLASS.WK |
| 56. | DBISTYLEGROUP | DBISG.FDB.FIELD.DISPLAY.CLASS.LIST | 34 | DBISG.FDB.FIELD.DISPLAY.CLASS |

## Fixes and Enhancements in Release 8.9.1.1

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.9.1.1 | Delete of Checklist Header (8*913) | On the UniData database port a problem has been fixed so that the Development Checklist function now allows the checklist header to be deleted after all associated checklist pages have been removed. |
| 8.9.1.1 | Compare Files (8*914) | The DesignBais UniData port version was not hiding the spinner at the completion of the Compare Files utility. This prevented the processing from completing correctly.<br>To prevent this problem the routine now uses READU with LOCKED clause in the loop that accesses F.DBISTATS.<br>The update of the progress percentage has been moved to after the updates at end of the FOR NEXT loop in GOSUB ACCOUNT.COMPARE. |

| 8.9.1.1 | Tracked Phantoms (8*915) | The tracking record status is initially set to 'Initiated' before invoking the phantom and is then set to 'Started' once the phantom commences.<br>DBI.P.CALLDBSUB now sleeps for up to 10 seconds to wait for the status to change to 'Started'.<br>DBI.G.DBSPECIFICNET will exit if the tracking record has been deleted, indicating that the phantom has finished, before it updates the status to 'Started'. |
|---|---|---|
| 8.9.1.1 | Change Asynchronous Mode in Code (8*916) | The ajaxAsync setting is currently sent during the onload event i.e. once per session. It can now be changed per form from say the User or User Group 'Start Process (Form Load)' or, indeed, from any other event. Use the DBI.G.AJXCMD routine to do this.<br>To turn async mode on:<br>AJXIN = 'true'<br>CALL DBI.G.AJXCMD('ajaxAsync',AJXIN)<br>To turn async mode off:<br>AJXIN = 'false'<br>CALL DBI.G.AJXCMD('ajaxAsync',AJXIN)<br>To apply, or re-apply, the setting from System or Global Parameters:<br>AJXIN = '' or AJXIN=â€™defaultâ€™<br>CALL DBI.G.AJXCMD('ajaxAsync',AJXIN) |
| 8.9.1.1 | Disabled Output Fields (8*917) | The dbaisState='D' attribute is now also assigned to Disabled Output Fields.<br>This allows disabled output fields to be styled with an opacity setting as required. |
| 8.9.1.1 | Web Service Calls AJAX Node (8*918) | The AJAX node in the returned XML is not used by the web service routines and is no longer included in the packet sent to the web server. |
| 8.9.1.1 | RESTful Web Service (8*919) | A RESTful web service may now be invoked using COMMON variable DBCALLWS.<br>See  the 'Invoking a Web Service' section of the DesignBais Reference Manual.<br>There is a test form available in DBDEMO*REST.<br>DBSCREENPROPS contains the screen size. Pipe delimited depth and width. This is assigned at the get session stage and is not refreshed again throughout the session. It does not change if the window is resized.<br>WINDOW.WIDTH = FIELD(DBSCREENPROPS,'|',1)<br>WINDOW.DEPTH  = FIELD(DBSCREENPROPS,'|',2)<br>MAX.COL   = FIELD(DBSCREENPROPS,'|',3)<br>MAX.ROW   = FIELD(DBSCREENPROPS,'|',4)<br>If DBSCREENPROPS is not set in DBI.G.GET.XMLNET then developers can use the last value from DBISESSIONS<DBISS.DBSCREENPROPS>.<br>DBRESTRETURN has no <dimensions> node. |

| 8.9.1.1 | eXpress Reports changes (8*920) | eXpress Reports have been amended as follows:<br>1. eXpress Group names (the name assigned to groups of fields that are available to the eXpress Reports tool) have been moved from DBIFILES to DBIPARMS. This is to facilitate changes to these group names being moved into production environments without the need to<br>update the DBIFILES record.<br>2. eXpress Group names are now stored on DBIPARMS record id 'EXPRESS*':filename.<br>3. attributes relating to eXpress Reports previously held on DBIFILES have been moved to the 'EXPRESS*':filename record on DBIPARMS.<br>4. eXpress Category and Sub-Category have been introduced to allow for an eXpress field to appear with a different name (description) for each Category / Sub-Category. |
| --- | --- | --- |
| 8.9.1.1 | Cabinets (8*921) | The Cabinets menu option has been removed from the eXpress menu.<br>Cabinets is now located in the System Parameters menu. |
| 8.9.1.1 | DBMOVETOFIELD Grid Fields (8*922) | Developers can now use DBMOVETOFIELD to scroll a MV grid field into view.<br>The element ID is now built correctly which corrects the javascript 'undefined' error. |
| 8.9.1.1 | Conflicting Read Error (8*923) | DesignBais now checks not only that a file is to be added but also if the associated variable is new when setting DBREAD.GROUP.LIST for files not read by DesignBais i.e. if a File+Variable combination is new then add a dummy read group for tracking.<br>This allows the File+Variable to be removed when the form is closed.<br>Preserve Common + Modal + Sub-form combinations were leaving values set and experienced<br>the error:<br>'Unable to locate the field [':TEST.FIELD.NAME:']. This is most likely due to a conflicting read. Please check your read group and record assignments to ensure that all are unique. You may need to dummy amend [':TFILE:'] in File Properties to ensure all fields are correctly configured.' |
| 8.9.1.1 | Fields to Retain field List in Forms Designer (8*924) | The list of Fields to Retain in the Update Parameters form in Forms Designer contains the names of fields on the form that are not to be cleared when the clear button is clicked.<br>Fields flagged as not to be cleared on the header and footer forms were not being added to the base form list when merging the header and footer forms.<br>This error has been fixed. |
| 8.9.1.1 | User Groups Access Control (8*925) | The ability to refine the list of Forms and Reports Available for Use by this Group has been added. The list can be refined by Type, Category, Sub-Category, Description and Form.<br>Column headers may be clicked to sort the list.<br>'Submit' button text changed to 'Back' since there is no saving done in the Access List modal form.<br>The 'Cancel' button has been changed to 'Restart' and resets DBRECORD to the values when the form was opened. |

| 8.9.1.1 | Custom Logging added to Global General Parameters (8*926) | New logging options are available when running reports - LOG_REP_START and LOG_REP_STOP. The Global option was added so that logging can be run across multiple data accounts from the one routine. The System Parameters routine will take precedence. |
|---|---|---|
| 8.9.1.1 | eXpress Field Description by Category and Sub-Category (8*927) | The new form DBIPROP_M30 allows developers to set up multiple field descriptions for a field property. Each description is associated with an eXpress Category and / or Sub-Category. This form is displayed using the 'eXpress Field Description' option on th eXpress menu. |
| 8.9.1.1 | Duplicate Fields on a form (8*928) | Developers should be aware of potential issues that may arise when duplicate fields are placed on a form and these fields perform a read. Forms Designer warns the developer if a read group selected for a new field has already been assigned to another field. When a duplicate field is placed on a form and only one of the duplicates has a read then, prior to this release, there was a potential for the DesignBais engine to locate the field without the read first, and therefore skip the before and after read processes associated with the duplicate field. This has been fixed in this release. |
| 8.9.1.1 | Passwords No Longer in Logs (8*929) | For added security passwords have been removed from DBIXMLLOG records and are not passed to the custom logging routine. |
| 8.9.1.1 | Copy Forms option in Form Designer (8*930) | The change of 'Original Text' to 'Field Name/Process To' was not applied to field names correctly. This has been fixed. |
| 8.9.1.1 | Forms Designer Messages (8*931) | DBDS messages in Forms Designer now all go through the glossary. |
| 8.9.1.1 | Clear button in Responsive Design Form Data Link (8*932) | It was reported that, after selecting the page from the dropdown list, the clear button needed to be clicked twice. The validation of the dropdown was not passing the selected value into the input field correctly. This has been fixed. |
| 8.9.1.1 | Compare Options (8*933) | There are new options to ignore whitespace and ignore basic comment lines. These appear as checkboxes at the base of the form with field descriptions: Ignore WS Ignore BC |
| 8.9.1.1 | Ajax Commands (8*934) | This release fixes a problem that prevented using DBI.G.AJXCMD with your own IDs for embedded elements or, indeed, if you used the full MV syntax. MV grid field names will now generate the correct XML IDs based on the current DBMVCOUNT and the field position in the grid unless the field position is specified in AJX.DATAIN<12>. |

| 8.9.1.1 | Report Designer Review (8*935) | The following functions have been added to the Report Designer:<br>MultiFields, Resize, Dup Field, Drag and Context Menu functionality.<br>An error in the DBDERIVED field functionality has been fixed.<br>The variable DBLASTSELECTEDITEM is now cleared as necessary to avoid highlighting old field selections and variable undefined errors.<br>The Designer Context menu is now rebuilt after the option has been run.<br>The field context menu now includes the option to add a Break.<br>In Forms D110 & DR30 Text only fields for Report Designer the developer may add @VARIABLES from a dropdown list. |
|---|---|---|
| 8.9.1.1 | Context Menus (8*936) | In the previous release context menus were added to attribute 2 of DBMENUTRACE variable which corrupted MISCREC.<br>The session storage record was pushed out by one attribute.<br>This error has been fixed. The field delimiters of DBMENUTRACE are now lowered when stored and raised when extracted.<br>Context menus are now rebuilt after a menu option in case the menu has been updated.<br>Context menu is cleared when PROCESS.STACK is set. |
| 8.9.1.1 | DBI.I.DBISELECT missing SUBROUTINE line (8*937) | The first line of the subroutine 'SUBROUTINE DBI.I.DBISELECT' has been re-instated after being accidently deleted.<br>The D3 database port revealed this problem as it threw an error. No error was observed in other databases such as Universe. |
| 8.9.1.1 | D3 Nonnumeric in DBI.G.MVW3CNET (8*938) | In the D3 port a non-numeric error was found and fixed.<br>IF FIELD.VD OR FIELD.AL ... now IF FIELD.VD # '' OR FIELD.AL # '' |
| 8.9.1.1 | Editor Item IDs may contain Asterisk (8*939) | A problem has been fixed that caused record locks on Code Editor items to remain after exiting the editor.<br><br>Editor controls used to be 'filename*itemname'.<br>This was changed to 'filename\|itemname' but one occurrence was missed.<br>This meant that locks on items with a key containing an asterisk were not being removed. |
| 8.9.1.1 | Account Purge Added (8*940) | The purge is now invoked once per day in all accounts.<br>Global DesignBais files like the shared session files will only be purged once per day.<br>A new Application Purge parameter has been introduced in the Global parameters Purge form. DBIACCOUNT is now passed into the purge and will be available to run different options in each application account.<br>An option to switch off User Logging during the purge may be set. DBIUSERS is a shared file and hence this will only be run once and can't be set per account. This is useful in a live environment where a developer may have inadvertently left logging turned on. |
| 8.9.1.1 | Exclusive Locks (8*941) | It was noticed that calls to DBI.G.EXCLUSIVE to check the lock status was returning the session ID in the LockedUserRec rather than the User ID.<br>This has been fixed. |

| 8.9.1.1 | Global Parameters Moved (8*942) | Global Parameters have been moved to their own form to reduce the need to scroll the main Development Tools menu to access the options.<br>If the parameter record is locked the user is given the option to proceed in Enquiry Mode. |
|---|---|---|
| 8.9.1.1 | Expandable Field (8*943) | The application of the height adjustment is prevented if the field is in a collapsed section. |
| 8.9.1.1 | Side Menu Separator (8*944) | An item description '-' will become a separator.<br>The separator class may be set on the menu definition.<br>This allows horizontal separator lines to be placed in side menus. |
| 8.9.1.1 | Acknowledgement During Login (8*945) | A new option to have the user accept the conditions of entry to the site has been added to the standard DesignBais login form. This is invoked by entering an Acknowledgement message in the Global Login Parameters form. |
| 8.9.1.1 | eXpress Reporting (8*946) | When the checkbox 'Include in eXpress Reporting' in File Properties maintenance is set off then there is a new option to also turn off the 'Include this Field in eXpress Reporting' checkbox for all Field Properties for the file.<br>The user is prompted with the message:<br>'Do you wish to reset (turn off) the 'Include this Field in eXpress Reporting' and clear the eXpress Heading field in all Field Properties for filename?'<br>The user can proceed with this update or select to leave the field properties unchanged. |
| 8.9.1.1 | Calling Code Editor (8*947) | When invoking the code editor for a new field DesignBais now returns the name of the program created. |
| 8.9.1.1 | Mandatory Search Fields (8*948) | Mandatory search fields were not being heeded.<br>This has been fixed by incrementing the step counter for Search fields regardless of the mandatory flag to get the correct DBUSAGEVAR position. |
| 8.9.1.1 | Dialog Not Rendered Correctly (8*949) | Due to javascript timing issues a modal form could be cleared DesignBais proceeds to position the dialog box near a field on the modal form.<br>This has been addressed. If closing a modal and displaying a message then the dialog box will be placed in the centre of the display window.<br>This allows the message to be displayed above the base form. |
| 8.9.1.1 | Dialog Display in Copy Style Group (8*950) | If a field was entered and the Submit or Cancel button was clicked before tabbing out then the error message could be displayed over the base form.<br>This is due to the delay on the dialog display being longer than the time needed to process the button click which causes the modal to disappear before the dialog is displayed.<br>To get around this DesignBais uses a DBSTORE variable to flag that a dialog is happening. This is cleared in the button event and the button logic to close the modal was not being applied. This has been fixed.<br>It was also noticed that the modal close button did the same thing and hence, DBHIDECLOSE is applied in the AFTER DISPLAY. |

| 8.9.1.1 | Copy RD Page (8*951) | The Copy RD Page function has been improved.<br>The source RD page must be linked to an existing DesignBais form. It cannot be a page that is yet to be linked.<br>The target page must have been published in the Responsive Designer and reside in DBIFORMHTML and be unlinked.<br>The source (From) page and the target page must share the same field IDs. This is achieved by using the Save As (Alt A) feature of the Responsive Designer.<br>Text changes and field changes can be applied to produce a better target linked form on DBIFORMS. |
|---|---|---|
| 8.9.1.1 | Date Range Validation (8*952) | The field properties Lower Range and Upper Range may now be set for DATE field type. The entries may be a valid date or a calculation of the form T+nnn or T-nnn where T is today's date at run time.<br>There are now Earliest Date and Maximum Date parameters in both Global and System Parameters that, if set, will flag date field entries as errors if the date value falls outside these settings.<br>This feature has been introduced to catch keying errors that result in, say, a 5 digit year, or in an historical date that displays apparently correctly but is actually a date far into the past of the future. These errors will be trapped in the browser.<br>The default database date conversion only shows 4 digit years.<br>Where application code omitted date validation then dates like 01/01/12023 may be entered and saved, with the external format displaying as 01/01/2023. |
| 8.9.1.1 | DBFIELDTITLE (8*953) | The contents of Title text is now passed to the DesignBais glossary. |
| 8.9.1.1 | Upgrade Routine 42 - Refresh Search Forms (8*954) | From Release 8.9.1.1 search forms will no longer display the green-bordered buttons indicating button action to occur when Enter is pressed.<br><br>The Search button will now be triggered by pressing Ctrl+Enter in the search field(s).<br>The Refine button will now be triggered by pressing Ctrl+Enter in the refine field(s). |
| 8.9.1.1 | Control + Enter Title Message (8*955) | If no field title has been added to a field and it has a 'Control + Enter Button' attached then the name of the button that will be actioned will be placed in the field title in the form 'Control + Enter will click the buttonname button'.<br>This is to prompt users that the function is available. |
| 8.9.1.1 | DBOTHER.RECORD Writes (8*956) | When doing DesignBais reads and writes with DBOTHER.RECORD(n) using optimistic locking it was found that the check for changes to the record since it was read was not applied correctly.<br>This has been fixed. |
| 8.9.1.1 | eXpress Reports (8*957) | A new option 'Re-Assign Field Group' has been added to the eXpress menu.<br>This function allows the developer to move all fields from one Field Group to another Field Group, or to a new Field Group. |
| 8.9.1.1 | Selection Keyboard Search Option (8*958) | The Select form option for Keyboard Driven Search allows you to override the System Parameters setting. |

| 8.9.1.1 | Code Editor Will Now Open at a Particular Line (8*959) | Once a file and item have been entered into the Editor page you may click on the 'Subr Gosub List' button to display a list of the labels within the routine.<br>Clicking on the label name will invoke the code editor starting at the line number associated with the label name. |
|---------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8.9.1.1 | Exclusive Lock Removal (8*960) | Fix variable unassigned error when removing checksum locks. |
| 8.9.1.1 | Track Position of Modal Forms (8*961) | To keep modal forms within the viewable area when the depth changes DesignBais needs to track where they are on the form.<br>When form sections expand from the collapsed state the modal form could extend below the viewable area requiring the user to scroll in order to view all of the form.<br>Up to this release DesignBais could only re-center the form since the last known height was not being recorded. The COMMON variable DBMODALPOS allows DesignBais to store this<br>information (see the item on DBMODALPOS).<br>DesignBais now only changes the top position of the modal if the form height changes and it will extend past the base form. Initially it will still be centered by the web component. |
| 8.9.1.1 | Find String (8*962) | A checkbox has been added to the Find String function. It is labelled 'String Replacement Completed'. It will be checked after the user clicks the 'Replace' button to replace target strings with the replacement strings.<br>This serves as a reminder to the user that this function has been run. |
| 8.9.1.1 | DBISESSIONS Dictionaries (8*963) | Dictionary items were generated from the E.DBISESSIONS equates item.<br>They cover the session and the browser records.<br>If using them check that they correspond to your system. |

| 8.9.1.1 | DBMODALPOS (8*964) | The new common variable DBMODALPOS carries information about the position of a modal form. <br> DBMODALPOS<1,DBWLEVEL,1> = true / false has been dragged <br> DBMODALPOS<1,DBWLEVEL,2> = top position - set from dragged or in <br> DBI.G.FOOTERMNET <br> DBMODALPOS<1,DBWLEVEL,3> = left position <br> DBMODALPOS<1,DBWLEVEL,4> = level nn as extracted from dbBackGroundnn (element name) used to set the correct MV position <br> DBMODALPOS<1,DBWLEVEL,5> = Last known height - set in DBI.G.FOOTERMNET <br><br> When a modal is closed or opened DBMODALPOS<1,DBWLEVEL> will be cleared. <br> DBI.G.FOOTERMNET recalculates the modal form height each hit in case collapsed sections have changed. It will now only change the modal top position: <br> 1) If the height has increased <br> 2) If it is not a new modal opening <br> 3) If the application is not adjusting the top position via DBAJAXCMD (DBI.G.AJXCMD calls or their own DBAJAXCMD<-1> entry) the position is derived from the DBAJAXCMD string. <br> 4) If the form hasn't been dragged or If the last known top + the new height takes the bottom of the form out of view. <br> DBI.G.FOOTERMNET sets: <br> DBMODALPOS<1,DBWLEVEL,2> = THIS.TOP DBMODALPOS<1,DBWLEVEL,5> = THIS.HEIGHT <br> If dragged=true the top may be overridden. |
| 8.9.1.1 | Long Dictionary Names (8*965) | It was found that the UniData query language does not handle dictionary names longer than 31 characters. There may be an option in the UDT.OPTIONS for a solution but DesignBais now sets a maximum length of 31 for dictionary names. Existing names exceeding 31 characters in length have been shortened. <br> Work field names exceeding 31 characters have also been shortened, <br> although this was not strictly necessary. <br> This affects many DBISYSFILES, DBISYSPROP, DBISYSFORMS and DBINET items. <br> If in the unlikely event that the DesignBais equates or long field names are used in your application then you will need to check your routines. <br> Refer to the Installation and Release Notes for the list of affected field properties. |
| 8.9.1.1 | Report Emailing as Excel (8*966) | An error found when using the 'Email report as Excel', when DBMail is not active, has been fixed. |
| 8.9.1.1 | Linked Table Maintenance (8*967) | Selection process search buttons added to the Table Links form DBIPMLINK_MAINT to allow users to use a refine option to more easily select fields for the Table and the Linked Table. |
| 8.9.1.1 | Default Dialog Boxes (8*968) | It was noticed that our default dialog boxes for error messages from say the BEFORE WRITE were clearing form data after the OK button was pressed. <br> To fix this we now bypass any processing for dialog responses when the DIALOG.PROGRAM is DBI.G.BUTTON. |

| 8.9.1.1 | DBMail send failure error (8*969) | When the DBMail System Parameters active flag was 'N' and Global Parameters for DBMail were not present the error message did not indicate the cause of the DBMail send failure.<br>DesignBais now checks that Global Parameters are present if the System Parameters Active Flag is set to 'N' and issues an appropriate message. |
|---|---|---|
| 8.9.1.1 | Before Screen Sequence Option (8*970) | There is a new parameter to control when the menu 'Subroutine to invoke before screen' is invoked. This setting will control when the BEFORE SCREEN subroutine attached to the menu structure is run. A setting in System parameters will override the Global General Parameters setting.<br><br>**The default "Menu Only" setting is a change from previous releases. "First" was the original setting in releases up to 8.8.2.3.**<br><br>Leave as Inherit to use the Global Setting in this account.<br>**Menu Only**: the BEFORE SCREEN will only be called when a menu option is clicked. It will called before the form BEFORE DISPLAY is invoked.<br>**First**: the BEFORE SCREEN will be invoked whenever a new form opens (menu click or PROCESS.STACK). It will be called before the form BEFORE.DISPLAY.<br>**V6 Mode**: the BEFORE SCREEN will be invoked whenever a new form opens (menu click or PROCESS.STACK). It will be called after the form BEFORE.DISPLAY. This was the V6 behaviour. |
| 8.9.1.1 | Report Progress Form (8*971) | The form has been modified to improve the presentation. |
| 8.9.1.1 | SVM Removed from Reports (8*972) | SVM are now removed when meta data is included in a report. |
| 8.9.1.1 | Data Extraction will use DBI.G.SENDEMAIL (8*973) | By default the Data Extraction tool uses DBMail to send the extracted data file as an email attachment.<br>If DBMail is not active then the attachment will now be sent using DBI.G.SENDEMAIL. |
| 8.9.1.1 | Record Locks (8*974) | The lock record was occasionally remaining after all locks were cleared. The count attribute <6> was wrongly referenced as a MV. This has been fixed.<br>Also, a final check to DELETE the lock item was checking for attributes in the lock item.<br>It now just checks that the list of sessions in <1> is empty before deleting the lock record. |
| 8.9.1.1 | PDFConsole Update (8*975) | The PDFConsole updates the database when it starts, pauses or stops.<br>The update was done in 2 stages in order to avoid locking issues.<br>The web service that does the update now checks for exclusive locks on DBIGLOBAL REP2PDF and will proceed with the update if no lock is found.<br>If locked then only DBIGLOBAL PDFCONSOLE is updated.<br>The DBIGLOBAL PDFCONSOLE item is now 'the source of truth' in DesignBais for the console controls. REP2PDF can be updated from the Global Parameters maintenance form. |
| 8.9.1.1 | Global and System Menu Record Lock Checking (8*976) | The Global and System Parameter forms now give the option of continuing in enquiry mode if a lock exists.<br>The BEFORE DISPLAY event is now executed on all parameter forms and the BEFORE SCREEN event is executed from the DEVELOP.GLOBAL menu. |
| 8.9.1.1 | Dialog Position (8*977) | If a field is hidden then any associated dialog box will now be centered rather than appearing in the top left corner of the form. |

| 8.9.1.1 | Report No items to Print now Centered (8*978) | The 'No items to print on this report' message in the Field Properties report was overlapping the box container.<br>We prefer it centered. |
|---|---|---|
| 8.9.1.1 | System Logo now on Error Pages (8*979) | The System Logo will be displayed at the top of error message pages produced from the Data Component.<br>This may override the <logoImageName> in the website db.config file.<br>The image must exist in the web site images folder.<br>Note however that errors produced in the web component will still use the <logoImageName><br>if it exists or default to the DesignBais logo. |

## Fixes and Enhancements in Release 8.8.2.3

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.8.2.3 | New Common Variable DBREPORTROWCLASS (8*904) | Allows setting of onmouseover and onmouseout classes for all rows of an On Form Report.<br>Any OFR defaults will be overwritten by this setting.<br>Any OUTPUT.MOUSEOVER will still be applied to report cells.<br>The Mouse Over Class is held in DBREPORTROWCLASS<REPORT.SUBSCRIPT,1,SUB.ELM><br>The Mouse Out Class is held in DBREPORTROWCLASS<REPORT.SUBSCRIPT,2,SUB.ELM><br>If no report sub-element is defined then SUB.ELM = 1 i.e.<br>Mouse Over Class = DBREPORTROWCLASS<REPORT.SUBSCRIPT,1><br>Mouse Out Class = DBREPORTROWCLASS<REPORT.SUBSCRIPT,2> |
| 8.8.2.3 | New Common Variable DBFIELDTITLE (8*905) | The new common variable DBFIELDTITLE has been added to make setting field hover title text easy to maintain. The title attribute may also be set in Forms Designer via a Custom Attribute or from code using the DBI.G.AJXCMD function 'jqsa'.DBFIELDTITLE<1,nn> = MV list of Field Names on a formDBFIELDTITLE<2,nn> = Associated list of Field Titles |
| 8.8.2.3 | Selection returning no data in UniData (8*906) | When a selection returned no data, in the UniData port of DesignBais, there was an error<br>in interpreting the 'No data retrieved from current (S)SELECT statement.' message. This<br>resulted in certain functions not recognising when no records had been selected.<br>This has been fixed. |
| 8.8.2.3 | Focus After Select and Predictive Text Entry (8*907) | The fix for setting focus after a dropdown select list (refer to checklist item 8*887) was flawed. It had the unintended effect of stopping Predictive text entry lists from working by setting focus on the next field.The fix in this release is that no auto- |

| | | focus will be applied after a select validation unless DBRETURN.TO.FIELD is set. |
|---|---|---|
| 8.8.2.3 | User Start Process - Form Load (8*908) | Setting PROCESS.STACK in the 'GET SCREEN' event in developer applications is now retained. |
| 8.8.2.3 | New Form focus() Delay for CTRL+ENTER (8*909) | When a form is loaded DesignBais now delays the setting of focus on an input field to allow the web component functions to complete, after which the focus is applied.This change allows the CTRL+ENTER in the first input field on a form to function correctly. |
| 8.8.2.3 | Keyboard Driven Searches option in System Parameters (8*910) | Using the Select Row field to enter the row number of the selected item in a Selection Process was not working as the report key was incorrect. It needed DBEX.SESSION.ID rather than SESSION.ID to include the form layer number. MISCKEY = DBEX.SESSION.ID:'|OK|R.REPORT|':SCREENROOT |
| 8.8.2.3 | Global Print Margins (8*911) | When selecting the margins and scaling to use DesignBais now checks the browser name and version number if provided.Chrome|109 in the browser name field will now apply to Chrome browsers with the version number greater or qual to 109. |
| 8.8.2.3 | DBI.G.CAJAXNET Non-Numeric Variable (8*912) | DesignBais code was attempting to position a dialog box near a report element when the DIALOG.PARAM started with 'R.'. In some instances this was not applicable since an application may use assign 'R.' as the start of a form element name without meaning to reference a report cell. |

**Fixes and Enhancements Release 8.8.2.2**

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.8.2.2 | Modal Form Centering (8*902) | When there are no collapsing sections DesignBais does not re-center the display of a modal form. When collapsing sections are present the modal form is re-centred in order to keep the form within the margins of the browser display area. |
| 8.8.2.2 | Variable un-assigned error (8*903) | Program 'DBI.G.ACTIONONET': Line 367, Variable 'OUT.STRING2' previously undefined. Empty string used. This error has been fixed in this release. |

**Fixes and Enhancements Release 8.8.2.1**

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.8.2.1 | Report Designer px to mm conversion factor (8*840) | The factor used by the Report Designer to convert px to mm is now parameterised. Refer to System and Global Parameter 'Report px to mm Conversion'. V6 DesignBais used a factor of 4.05 to convert px to mm. This was changed to 3.7795 during the development of V7/8. This parameter allows you to set a suitable factor for your systems. The default if not entered will remain at 3.7795. The global value may be overridden for a particular account in System Parameters. |
| 8.8.2.1 | DBENQUIRY.MODE (8*841) | The value of DBENQUIRY.MODE was not being stored correctly when it was set using subroutine code in the BEFORE DISPLAY slot when opening a form. The problem did not occur when a form was called using the '~~E' option. Symptoms: enquiry only fields became available after a modal was closed via X. This has been fixed. |
| 8.8.2.1 | Read Process (8*842) | In some circumstances when processing the MV Header Event the DesignBais engine was re-running the READ process which corrupted the MV data. The test to determine the required process has been tightened to avoid this error. |
| 8.8.2.1 | Session Start Up (8*843) | The start up hit checking has been extended to cover incorrect data received from the IIS system. |
| 8.8.2.1 | Client Logging (8*844) | Client Logging has been extended to include: LOG_WS_START - start of a web service LOG_WS_END - end of web service LOG_ERROR - error messages with IERR.TEXT in LOGSCRAPE<15> |
| 8.8.2.1 | Session Restart (8*845) | The current session will now be closed when you are changing user via DBALTUSER and DBCALLURL. Previously the old session was only closed if changing account. |
| 8.8.2.1 | Google Authentication (8*846) | Fix for a variable unassigned error message when validating the entered PIN. |

| 8.8.2.1 | Temporary User Passwords (8*847) | The standard DesignBais logon routine was generating the same random temporary password due to the use of the RND() function in isolation. The RANDOMIZE statement has been added for UniVerse and other databases that support or require this statement to reset the RND() function. |
|---------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 8.8.2.1 | MV Dialog (8*848) | Focus, via DBRETURN.TO.FIELD, is now set when using dialog boxes for DBDS or IERR.TEXT from a MV field. DBRETURN.TO.FIELD contains the elements to define the MV row and column -  'ASSOC z elementID v level z row z col'. |
| 8.8.2.1 | Form Height Calculation (8*849) | An OUTPUT field may contain value marks or <br> to delineate rows. The DesignBais engine now takes this into account when processing SCREENREC in order to set the correct calculated row span. The symptom of this bug was a shortened modal form after returning from another modal. |
| 8.8.2.1 | DROPLISTADD (8*850) | An error in the Remove option in DROPLISTADD was reported. Processing needed to check if the OLD.COMBO.LIST had changed as well as checking the valid input list in the field. DBVALUE will contain the base list of values. The removal of items from OLD.COMBO.LIST may make them equal if items had been added. The DesignBais engine now tests for a change in OLD.COMBO.LIST as well in order to force a refresh. |
| 8.8.2.1 | Sorting an OFR (8*851) | A reported javascript undefined error, displayed when an OFR was sorted after a column had been updated with no style change, has been fixed. |
| 8.8.2.1 | Cabinets (8*852) | Dates are now displayed using the format defined in the DBDATEFORMAT parameter. The Purge Due date has been added to the on-form Cabinet - Report Interface details report. |
| 8.8.2.1 | DBMOVETOFIELD (8*853) | DBMOVETOFIELD will now scroll a modal form to a set of coordinates. Previously the whole window was scrolled which would not move horizontally in the modal form. |
| 8.8.2.1 | Model Form Height (8*854) | The Model Form height calculations were allowing for the title bar twice and hence the forms were 30px too long. Now fixed. |

| 8.8.2.1 | DBI.I.DBIPROP (8*855) | The variable UPOS was causing an unassigned variable error message. Now fixed. |
|---|---|---|
| 8.8.2.1 | PDF Console List (8*856) | The PDF Console now allows for multiple URLs hitting the same database account.<br>Global General Parameters now lists all PDF consoles.<br>Image Compression has been added to the display. |
| 8.8.2.1 | dbexpandable Output Fields (8*857) | If text wraps in an output field the field height may now be adjusted based on the text<br>by adding a custom attribute 'dbexpandable'.<br>This will:<br>- change the height of the element<br>- push all elements below it down by the changed height and change their row position<br>- adjust the DBCOLLAPSELIST that controls the collapsible sections.<br>The concept means that the new field height is calculated in the same way as in Forms<br>Designer.<br>If the field contains HTML elements the line wrap calculation will treat them as<br>characters in a string rather than HTML controls. This may result in a height calculation<br>larger than the display. |
| 8.8.2.1 | Textarea setSelectionRange (8*858) | Normally the data in a textarea should not be selected in Enquiry Mode. The<br>setSelectionRange(0,0) is now only added by DesignBais if it is not set in the<br>application.<br>This fixes a reported problem of intermittent results when both DesignBais and the<br>application sent the function to the browser. |
| 8.8.2.1 | Select Option Class (8*859) | It was noted that select options only displayed Font Awesome icons correctly from the<br>initial HTML rendering if each option contained a class with the FontAwesome font.<br>The dynamic updating of select dropdowns did not re-render the icons.<br>The custom attribute dbsetoptionclass was added to overcome both problems. |
| 8.8.2.1 | Menu Rebuild (8*860) | Force menu rebuild for EVENTTYPE='onload'. This is needed during duplicate browser TAB<br>when AUTO.LOGON is set.<br>During duplicate TAB the database account can change and if the same menu exists in the<br>start account and the user's destination account it was not being rebuilt. |

| 8.8.2.1 | Development Checklist (8*861) | Custom items may now be deleted from the checklist. Checklist items may now be sorted by: 1) File\|Type\|Item - click the File column header 2) Amendment Type\|File\|Type\|Item - click the Insert/Amend column header |
|---|---|---|
| 8.8.2.1 | MV Header Custom Attributes (8*862) | New functions have been added to DBMVPROP. MV associated by Screenroot : â€œ\|â€¢ : Grid Name in attribute 1 DBMVPROP<27> may now contain Custom Attributes for the MV Header field. E.g. Code example from the Development Checklist Before Display: LOCATE SCREENROOT:'\|MV1' IN DBMVPROP<1>,1 SETTING MVPOS ELSE    INS SCREENROOT:'\|MV1' BEFORE DBMVPROP<1,MVPOS> END DBMVPROP<27,MVPOS> = '' DBMVPROP<27,MVPOS,2> = 'title='Click to sort by file, file type and item. Duplicates are removed.'' DBMVPROP<27,MVPOS,5> = 'title='Click to select an item from the nominated file.'' DBMVPROP<27,MVPOS,6> = 'title='Click to sort by change type, file, file type and item. Duplicates are removed.'' DBMVPROP<27,MVPOS> = CHANGE(DBMVPROP<27,MVPOS>,SVM,'\|') This adds mouseover title display to the grid header row for selected columns. |
| 8.8.2.1 | Col Span 100% (8*863) | There is a change to the col span calculation. It was: 'width: calc(100% - ':ACT.COL+10:'px);' and is now: 'width: calc(100% - ':ACT.COL+SPC:'px);' where SPC = 0 when element starts in col 0 after allowing for menu offset. The change also added box-sizing:border-box to prevent horizontal scrollbar. This allows horizontal lines to fill the form space correctly. |
| 8.8.2.1 | Forms Designer - changing a button name (8*864) | In Forms Designer a change to the name of a button was overwriting the the button row span and col span with the values from the button default settings. This has been fixed so that a button row and col span is not changed unless these values have not been previously set. |

| 8.8.2.1 | Development Checklist changes (8*865) | New features have been added to the Development Checklist form.<br>There is now a 'Del' button to allow the developer to remove a form, select or report<br>from the checklist.<br>There is a similar button to allow a custom set of previously added checklist items to be<br>removed.<br>There is now a function to find checklist items within the grid, with a Next and Prev<br>button to traverse all occurrences. |
|---|---|---|
| 8.8.2.1 | Code Editor File and Item Name Casing (8*866) | A flag has been added to the Code Editor form to allow the developer to specify the<br>casing of the File Name and Item Name fields. |
| 8.8.2.1 | Tab character replacement in form help records (8*867) | When form help records that contain tab characters are written to DBIHELP the tab<br>characters are replaced with the string '   '.<br>This is because the D3 database does not support the tab character in the same way as<br>other databases when used in these help records. |
| 8.8.2.1 | Code Editor Form (8*868) | A fix has been made to the selection refinement for the selection used in the Code Editor<br>form. Selection process DBIUSERS_SEL.FILE now uses values from DBUSAGEVAR<11>. |
| 8.8.2.1 | Workflow Table Link error (8*869) | The workflow table link logic was passing the value of the linked field back to the<br>calling routine via DBVALUE<1>. This has been amended to pass the value via DBVALUE<7>. |
| 8.8.2.1 | Express Reports assigning reports to a group (8*870) | When a report is saved users are presented with a list of user groups of which they are<br>members, and express user groups. Express user groups were displayed for selection that<br>did not contain any of the user groups of which the user was a member. This has been<br>corrected.<br>The outcome of the above was to allow a report to be saved for an express user group but<br>to never be able to select that saved report in the future since it was, correctly,<br>filtered out of the list of available reports. |

| 8.8.2.1 | Selection Form Enter Key (8*871) | The ENTER key action for Selection Process forms has been changed by switching all ENTER key actions to be CTRL+ENTER actions. This provides for the button click action to apply to different buttons depending on the field. An upgrade routine will clear the existing ENTER key form button and set the relevant CTRL+ENTER buttons. The maintenance routine will also set the correct CTRL+ENTER buttons. |
|---|---|---|
| 8.8.2.1 | Field Properties write error (8*872) | When setting eXpress Reporting via the checkbox on the on-form report produced by the List all Field Properties button, for the same field as is being maintained, the submit failed with the error indicating that the record had changed since it was read. This issue has been fixed. |
| 8.8.2.1 | Workflow changes (8*873) | When testing email templates in Email Template Maintenance developers can now set an option to review the test email before sending via DBMail. This permits the developer to assess the format of the email prior to any influence from DBMail. A bug has been fixed in Email Template Maintenance. When sending a test email the Replacement Position String field was being cleared in error. |

| 8.8.2.1 | Find String (8*874) | There is now check box option 'Include ID Once'. Select this in order to include just a single result for each item that contains the target string. Anchor button to clear the ignore line during replacement flags. Comment lines now include â€œ!â€• , â€œREMâ€• , and â€œ$*â€•  â€" as per UV. The 'noise' words are now included in the ignore list which can be maintained using the 'Find String Ignore List' link in the form header row. Click the 'Display Ids with Ignore Flag Off' checkbox to display target strings found in items that are in the Ignore List but have the Ignore flag set to 'No'. This means that these items are normally ignored but have been included for this run. Change 'Exclude 'Noise' Record Ids' to 'Exclude 'Cleaned' Record Ids'. Cleaned records are those records in the file being searched that have ids that indicate that they are copies or backups of other records in the file. For example a subroutine called XX.I.REF.09.02.2022 would be considered a backup of the real record XX.I.REF. <br><br>The Find String process now includes basic comment lines and cleaned record ids but these do not display by default. Click the checkbox to view these. They are filtered at display time rather than during the search. |
| 8.8.2.1 | Print Options in Global General Parameters (8*875) | 'Cancel this Report' added so that it can be excluded from the dropdown list of options. The 'Cancel' button is still available. |
| 8.8.2.1 | D3 Phantom Option (8*876) | System and Global General Parameters now have a 'Phantom Command' option for D3 only. The default value is 'z' but 'zsd' or 'zs' etc may be preferred. |
| 8.8.2.1 | Global General Excel Text Encoding (8*877) | The Excel Text Encoding field was setting the wrong read variable - now fixed. |
| 8.8.2.1 | Backup on-form reports sort sequence (8*878) | The date and time columns in the backup form on-form reports have been amended to sort correctly using the 'DR' and 'TR' options when calling DBI.G.SORT.ONFORMREPORT. |
| 8.8.2.1 | Forms Designer Read Group Warnings (8*879) | A read variable may not be entered until a Read Group and a Read Step have been provided. <br><br>A read variable should not be used on multiple Read Groups and, vice versa, no read group should read into different read variables. |

| 8.8.2.1 | Form Enter Key and Control + Enter (8*880) | CTRL + ENTER in MV field now runs the Header Process as per v6 unless a Control+Enter button is defined for the field. MV Header processes could always be defined as the Form Enter Key action or from a field Ctrl+Enter but did not work. It now works but is probably not overly useful. |
|---|---|---|
| 8.8.2.1 | DesignBais Tools Editor Form changes (8*881) | The DesignBais Tools Editor Form has buttons down the right-hand side of the form to call various Designbais tools. The call was using the ~L option in many cases so that the tool was presented in a layered form. This has been changed to call forms without the ~L flag. The return to the DesignBais Tools Editor Form is achieved by clicking the Editor button in the top menu. |
| 8.8.2.1 | Word Index Search (8*882) | DBISTYLEGROUP.REC variable was unassigned for drop list searches. To fix this it is now initialised earlier. |
| 8.8.2.1 | Style Group Dialog Position Parameter (8*883) | A new parameter is available in Style Group maintenance to allow the user to control the position of the IERR.TEXT and DBDS dialog display. By default the dialog will display under the form element that generated the event. Select the 'Centered' option if the dialog is to always display in the centre of the browser display area. |
| 8.8.2.1 | Custom attribute text in Glossary (8*884) | The text that is entered in the Custom Attributes title=â€¢ some text' and placeholder='some text', are now available in the DesignBais Glossary. |
| 8.8.2.1 | Field Definition Next Button (8*885) | The 'Next' button to find the next available attribute now ignores corrupt DBIPROP records with non-numeric values in DBIP.FIELD.ATTRIBUTE |
| 8.8.2.1 | Button Action to Occur when Enter Pressed (8*886) | Changes have been made to the behaviour of forms using the Button Action to Occur when Enter Pressed and Ctrl+Enter from a field. These changes are to bring this behavoiur into line with what previously occurred in Release 6. The Enter key can now run a any button on the form including a multivalue grid header process. DBVALUE will update the field variable. The field Ctrl+Enter action, if defined, will override the Enter button action. |

| 8.8.2.1 | Focus after Dropdown (8*887) | The auto-focus was allowing focus only for the special characters 9 (TAB), 13 (CR), 17 (CTRL), 33 (Page Up), 34 (Page Down), 35 (End) and 36 (Home), as these keys normally trigger the change event. Focus was lost in, for example, a Yes / No dropdown after typing 'N' or 'Y' to select the option. A change has been made so that DBKEYCODES is now set to normal keys when typing into a dropdown to select the item. |
|---|---|---|
| 8.8.2.1 | DesignBais Purge (8*888) | The purge routine was deleting session records containing the lock for items open in the Code Editor. The purge has been amended to retain locks if the code editor record is still open in Code Editor. Cookie (browser records) with editor keys will not be deleted. Session records with editor keys will not be deleted. |
| 8.8.2.1 | DBMail Clear Button (8*889) | When DBMail is Inactive the settings in the DBMail parameter form may now be cleared. |
| 8.8.2.1 | Predictive Search OFR (8*890) | The clearing the dropdown search results report is now delayed in order to prevent javascript errors in case events have happened in the browser while processing. If the report is cleared and then redisplayed the delay hide command may get processed after the re-display. DesignBais will now remove the delayed hide command before adding the redisplay. |
| 8.8.2.1 | Selection Form Testing (8*891) | The selection window will now display when testing a Selection Process with 'Auto Selection Of Single Item' checked. A bug that caused a corruption of the selection form on return from the test option has been fixed. |
| 8.8.2.1 | Development Checklist changes (8*892) | When loading into a target account a transfer file containing a checklist that includes a new DBIFILES record the DBIFILES record is automatically set to 'Update' the target account. This is to ensure that the file size, equates prefix and equates from file are available to allow the new file to be created. When a checklist loads dictionaries, into a target account, without also loading the associated field property, then it is possible for there to be a mismatch between the property and the dictionary. The checklist load process now checks for mismatches between dictionary and field property and reports any mismatches in |

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| | | the update log display after the update is complete. |
| 8.8.2.1 | Editor Locks (8*893) | Locks were not being cleared correctly since changes were made to use the full file path in the editor key. The current SESSION.REC also needed to be updated when the lock was cleared. 'EDITOR*]' lock records have been moved to the main DBISESSIONS file so that they can always be read by the purge routine. Closing a browser TAB that contains a code editor instance now clears the code editor lock. Editor locks are no longer removed by the Exclusive Locks listing. They were being cleared along with other optimistic locks after 6 hours. The Exclusive Locks in Locks in This Account listing now use the session account name from the lock session record held on F.DBISESSIONS.MAIN rather than extracting it from the MISCREC held on the hashed sessions file. |
| 8.8.2.1 | eXpress Report changes (8*894) | The eXpress Report Designer form has been amended to remove color & background-color from the report header row cells in the R.SKELETON form element. The width of the empty cell (the cell that follows the last selected field column) is now calculated correctly. The sample on form report will not display a vertical scrollbar if the data sample is set for 10 records. This creates a cleaner display. When fields are added the horizontal scroll will move the new field into view. |

| 8.8.2.1 | Focus and Select (8*895) | An error was reported when TABing from a read field to an element containing a value from the read. DesignBais did not select the target field in the same way as a normal TAB to an input, but left the cursor at the end of the value in the target field. This was caused by the browser treating the target field as active. In the previous release, DesignBais introduced a dbSelect function specifically for running DesignBais in synchronous mode. This was found to be required in order to do the focus and select of the target element when the element is not active. This change was required to allow data entry during a data base event. Without this change the data returned from the database hit was replacing the data typed into the active field. This change remains in place for synchronous mode but normal focus & select commands have been re-introduced for asynchrous mode. |
| --- | --- | --- |
| 8.8.2.1 | Selection Process using the Keys Not on File setting (8*896) | When a selection process utilised the Keys Not on File setting the OUTPUT.KEYS and OUTPUT.MOUSEOVER were not set correctly for processes with row selection active. This has been fixed. |
| 8.8.2.1 | Chrome\|108 Report Scaling (8*897) | The Browser Print Margins settigs have been amended to add settings for transform: scale and transform-origin for Chrome\|108. |
| 8.8.2.1 | Additional Emails generated in error (8*898) | A fix has been made to clear DBPRINTRESERVE after processing a  GETJOBCSV to prevent additional emails being generated in error. |
| 8.8.2.1 | Modal Form Centering (8*899) | The height of forms is recalculated so that unnecessary scrollbars are avoided when a form has many collapsed sections. The bottom of such forms will be empty space. When a modal is resized in this way it may extend below the viewable page. A change has been made so that a resized modal form will now be recentered. |
| 8.8.2.1 | Dialog Box Templates (8*900) | DesignBais now allows focus on a button in the dialog box form DBIPARMS_DBOX. Buttons are normally skipped when setting focus in order to find an input field for focus. |

| 8.8.2.1 | Compare Records tool (8*901) | DesignBais now encodes '<' and '>' in the START.STR, DIFF.STR and END.STR variables of the compare records tool to avoid a HTML display issue when highlighting differences in compared line using a <span>. |
|---------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Fixes and Enhancements Release 8.7.0.1

### Context menu in Forms Designer allows access to fields below the currently displayed field
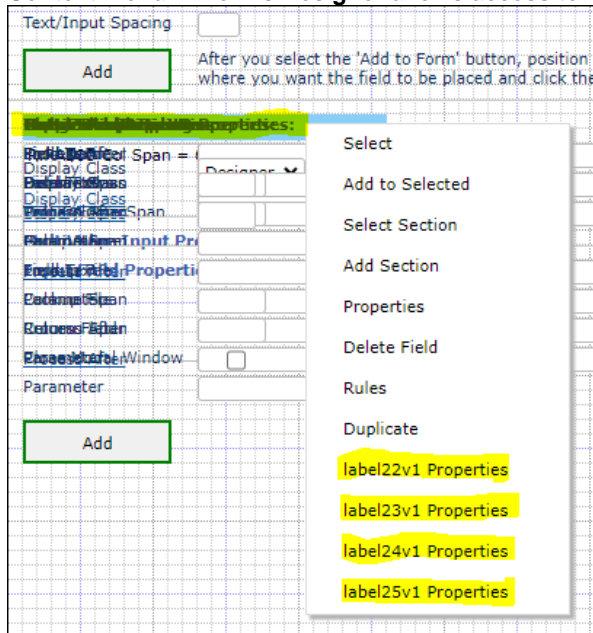


### Developers can specify a list of fields to retain after a form clear



### New options for On-form reports

## Draggable panels



**Dictionary Association Phrases are now created in Field Properties**

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.7.0.1 | DBMVPROP (8*721) | It was reported that not all DBMVPROP properties were applied to the grid. This has been fixed. |
| 8.7.0.1 | MV blankKey (8*722) | The MV blankKey event is triggered in the first column of a MV grid to decide whether to go to the next row or the next field. The validation event will then be run if needed. |
| 8.7.0.1 | Report Update (8*723) | DBREPORT.UPDATE logic is only applied if change applies to a row that is in the page being displayed. The recently introduced on-form report fixed column feature was found to be interfering with the DBREPORT.UPDATE logic, as it is also stored in the page control variable. The bug has been fixed. |
| 8.7.0.1 | OFR Changes (8*724) | Up and down arrow keys can be used to navigate between OFR input fields such as the IA (input alpha), ID (input date), IN2 (input 2 decimal number). Ctrl+Enter in one of the new input field types triggers a REPORT event. |
| 8.7.0.1 | Read Error subroutine (8*725) | Global Parameters now permits entry of the name of a subroutine that is to be called when a DesignBais read fails. The subroutine permits developers to define action to be taken when there is a read failure. |
| 8.7.0.1 | Set Style Heights function in Style Definition (8*726) | To avoid run time errors due to corrupt style records the Calculate Font Character Widths and Row Height process now excludes: - invalid font names (containing ';' or ':') - non-numeric font point sizes - empty font point sizes |
| 8.7.0.1 | Disabled Checkbox and Radio cursor (8*727) | Disabled CHECKBOX and RADIO form elements will have 'cursor: not-allowed' set when disabled. |
| 8.7.0.1 | OnSystex Phantom Process (8*728) | A bug has been found and fixed when running tracked phantom processes from Designbais on the OnSystex database. The symptom was that the phantom spinner remained visible and the job did not complete. The example where this was noticed was when running Upgrade Routines. |

| 8.7.0.1 | DBREPORTHEADER.ATTR (8*729) | DBREPORTHEADER.ATTR may now be sub-valued for sub-element on-form reports: DBREPORTHEADER.ATTR<repNo,colNo,subRep> If there is no sub-element report then the original form is still valid: DBREPORTHEADER.ATTR<repNo,colNo> |
|---|---|---|
| 8.7.0.1 | Awesome Font Mouse Over and Out events (8*730) | The script needs to be javascript escaped if the event includes a change to the color where the color is surrounded by single quotes. |
| 8.7.0.1 | OFR cell width (8*731) | DesignBais adds min-width and max-width to all OFR cells so that the report is rendered correctly. Incorrect min-width and max-width settings were being applied under some circumstances when a width was provided within the OUTPUT.ATTR. Any width in the OUTPUT.ATTR will now be extracted and used for the min-width and max-width settings. The string 'width:' is used to extract the required value. If 'min-width' is present than no extraction is done. |
| 8.7.0.1 | Forms Designer Text Field Length (8*732) | The Text Only text validation will no longer recalculate the col span if text had been previously entered - it is left for user to adjust. The recalculate button may be clicked. |
| 8.7.0.1 | Forms Designer Input Col Span (8*733) | Cross browser mode in V6 changed the width of <input> elements to 92% of the entered column span. This was carried forward to V8. Checking the 'Inputs Use Col Span' flag in Forms Designer will apply the column span as entered for all <inputs> on the form. There is a new upgrade routine (Upgrade 39) to set this for all or listed forms. This upgrade will set the 'Inputs Use Col Span' flag for all or selected forms in your DBIFORMS file. |
| 8.7.0.1 | DBI.G.DETAILNET Unassigned Variables (8*734) | The new variables to handle fixed columns were unassigned for the predictive text on-form report. This has been fixed. |
| 8.7.0.1 | Snapshot Routines (8*735) | The SCREENREC snapshot creates a record on DBISESSIONS. The key of this record included the form name twice which could exceed the maximum allowed record ID length (e.g. 126 in UniData). The keys have been shortened. |

| 8.7.0.1 | Upgrade routine 17 (8*736) | A flag has been added to Upgrade 17 to make the update of additional style properties optional. |
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| 8.7.0.1 | Upgrade Routine 39 (8*737) | A new upgrade routine allows you to set the 'Inputs Use Col Span' field on forms records.<br>Cross browser mode in V6 changed the width of <input> elements to 92% of the entered<br>column span. This was carried forward to V8. Checking this 'Inputs Use Col Span' flag<br>will apply the column span as entered for all <inputs> on a form. |
| 8.7.0.1 | Draggable Panels (8*738) | Each form may now contain a draggable sub-form.<br>All fields with an initial section state of Draggable will be placed in a separate HTML<br><div> which will be initially hidden.<br>The z-index for all masterdivs have been adjusted to insert the draggable panels. |
| 8.7.0.1 | DBI.G.FOOTERMNET Call to Resize Program (8*739) | Fix to change 'PARMS' to 'PARAMS'.<br>CALL @RESIZE.PROGRAM('DBADDFRAME',RESIZE.PARMS) should read CALL @RESIZE.PROGRAM('DBADDFRAME',RESIZE.PARAMS) . |
| 8.7.0.1 | DBSELECTKEY (8*740) | DBSELECTKEY is a new COMMON variable for MV select results. Refer to the Reference Manual for a description of usage. |
| 8.7.0.1 | @PARENT (8*741) | The string @PARENT when included with Awesome Font Icons on a button is converted to the FIELD.XML.NAME i.e. the parent field id. |
| 8.7.0.1 | Awesome Font Icons (8*742) | Include Parent Indicator (@PARENT) in DBIFORMS_FA so that icons on buttons can be made clickable. |
| 8.7.0.1 | Awesome Font in Menus (8*743) | DesignBais now allows for @PARENT, but it is not necessary, when awesome fonts are used<br>in menus. The click event happens from the anchor tag <a> regardless of an id in the icon<br><i> tag. |
| 8.7.0.1 | Add Check Box or Radio in Designer (8*744) | A bug, the check box and radio fields were not being automatically selected after being<br>added to a form, has been fixed. This was because when checking for the correct field<br>there is no longer any offset from the row and column position. |

| 8.7.0.1 | DBSCROLLREPORT (8*745) | DBSCROLLREPORT may be applied to textarea elements. It has been moved to the end of the processing cycle to allow more time for any data to load. DBAJAXCMD items have also been moved to the end of the cycle for classic mode forms (but not moved for RD). |
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| 8.7.0.1 | Button Sizing (8*746) | Row and Col span may be omitted from a button element in Forms Designer. The button sizing will be fully dependant on the style / class applied. |
| 8.7.0.1 | Focus on Textarea (8*747) | The auto focus on a textarea field in enquiry mode was leaving the data selected and the field scrolled to the bottom. The focus command has been removed in this scenario. The data is no longer selected and the top of the text is in view. |
| 8.7.0.1 | New function in DBI.G.AJXCMD (8*748) | There is a new function 'setSelectionRange' that can be called using the DBI.G.AJXCMD subroutine. The abbreviated function name is 'SSR'. This function provides a way to set the part of a field's content that is to be highlighted when the field gains focus. Refer to the manual for details. |

| 8.7.0.1 | Upgrade Routine 21 (8*749) | This upgrade can be used to set the default display class for button action to occur when enter pressed.<br>A new flag allows you to clear the display class of the enter button if the existing button display class matches the Enter Key Button class on the form stylegroup.<br>This fixes a problem where the button display class on the button designated as the button action to occur when enter pressed was being set to null in error.<br>The following details how to run Upgrade 21:<br>Check for the button flagged as button action when enter pressed:<br> - if the style appears in the list of styles to retain<br> - then retain the flagged button display class;<br><br>Or, if the Clear Display Class flag is set:<br> - remove the button display class and replace it with<br> - the Style to apply to Enter Button if a style has<br> - been entered in the Style to apply to Enter Button field.<br><br>If no style is entered in the Style to apply to Enter Button field and the Style to apply to Enter Button AND the style group enter key button class are the same then:<br> - the enter button display class will be cleared.<br><br>Otherwise if no Style to apply to Enter Button has been entered then:<br> - the enter button display class value is logged but no update of the enter button display class occurs.<br><br>If the Clear Display Class flag is not set then:<br> - the enter button class is not updated. The enter button display class is logged. |
| 8.7.0.1 | Type Ahead Issue (8*750) | DesignBais has introduced a new javascript function to circumvent the  issue described below:<br>Consider the scenario where data is required in two contiguous fields:<br>Slow motion analysis...<br>1 Change event fires on FIELD-1..Event is sent<br>2 You've now tabbed out to FIELD-2 and started typing (e.g. typed 1)<br>3 The database returns and selects FIELD-2; '1' is selected now<br>4 You keep typing on the FIELD-2 (e.g. another '1') erasing what you've already typed |

| | | because the whole field is 'selected'.<br>5 You end up with 1 instead of 11 on FIELD-2 |
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| 8.7.0.1 | OFR Titles (8*751) | Input fields are now updated with the html title attribute.<br>DBREPORT.UPDATE title changes now update OUTPUT.TITLE<br>DBREPORT.UPDATE type 'ID' now adds the datepicks prefix to the element ID. |
| 8.7.0.1 | DBSCROLLREPORT Left (8*752) | DBSCROLLREPORT<3,nn> will now scroll horizontally.<br>Use SCROLLWIDTH to go to all the way to the right. |
| 8.7.0.1 | Option to Use Old Page Buttons in Selection Forms (8*753) | A flag has been added to the Style Groups form to allow the use of the original paging<br>buttons rather than the newer On Form Report Page controls. Check the 'Select Includes<br>Page Buttons' option. |
| 8.7.0.1 | @PARENT Strings (8*754) | The check that @PARENT was contained within HTML has been relaxed because the characters<br>< or > could be in the content.<br>The original check was that the count of < and > characters matched, we now just check<br>that some <'s precede @PARENT and some >'s are after. This allows for @PARENT to be content in an OFR. |
| 8.7.0.1 | Hidden Fields in Reports (8*755) | The DesignBais Report processor now checks DBSECTIONSPEC to ensure that fields in hidden sections are not included. This applies to header, col header and email output (XLS).<br>Fields in hidden sections were being included in the XLS output and shown in the column<br>header section. |
| 8.7.0.1 | Favicon now Parameterised (8*756) | The path to the favicon image used by DesignBais may now be entered in the Global General<br>Parameters |
| 8.7.0.1 | Auto Select One (8*757) | AUTO.SELECT.ONE from a selection needed to set DBPASS.DBVALUE after<br>BUILD.SELECTION.RETURN rather than before. |
| 8.7.0.1 | DBI.G.SCREENRECNET (8*758) | Fix Multivalue selector where a supplied part is not multivalued. |
| 8.7.0.1 | Multipart Key (8*759) | Check T.SUPPLIED # '' before LOCATE in CHECK.MULTIPART. |
| 8.7.0.1 | Load Checklist Transfer File changes (8*760) | The Load Checklist Transfer File option now has an improved log.<br>I-type dictionary compiles and compile errors are now displayed separately. |

| 8.7.0.1 | IERR.TEXT in MV Header Event (8*761) | The MV ids were not being applied which led to javascript undefined errors. |
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| 8.7.0.1 | Allow DBRETURN.TO.FIELD after a DBBUTTONCLICK (8*762) | The ability to set DBRETURN.TO.FIELD after a DBBUTTONCLICK has been re-instated. |
| 8.7.0.1 | Snapshot IDs (8*763) | The "SCREENREC" prefix on session files is now "SS" for all snapshots.<br>The old SCREENREC-SS-form prefix is now SS-DBWLEVEL.<br>This is part of a range of changes to to shorten IDs of records written by DesignBais,<br>mainly these are records on DBISESSIONS. This is to allow for those databases with limits<br>e.g. D3 has a limit of 100 characters for the length of record IDs. IDs that include the<br>session ID lose 32 characters of that 100 due to the length of the V8 session ID. |
| 8.7.0.1 | Allow for DICT files in Editor (8*764) | OPEN '','DICT FILENAME' TO F.VAR works in UniVerse but needed to be OPEN<br>'DICT','FILENAME' TO F.VAR in other databases. |
| 8.7.0.1 | Report Designer Header Fields (8*765) | An option was added to System and Global General parameters to stop the default action of<br>adding 'overflow:hidden' to fields in the header, column header or footer sections of a<br>report.<br>Without 'overflow:hidden' field data may extend beyond the row and col span settings<br>which may lead to overlapping text. |
| 8.7.0.1 | OFR Click Column Background (8*766) | The DEFAULT.CLASS setting has been changed to match the behaviour that applied when using<br>DesignBais V6. This means that the lightsteelblue colour is not applied to OFR clickable<br>columns that have a defined class. |
| 8.7.0.1 | OFR Page Controls (8*767) | Awesome Font selection added.<br>Option to exclude individual button controls, 'Total Rows' message and 'Page' message.<br>Option to position the page controls below the existing report size - developers will<br>need to leave space below the REPORT elements in forms designer.<br><br>The trailing space was deleted from the 'Total Rows ' text for the Glossary.<br>Pages word changed from '/' to 'of'.<br>Page Entry class now uses standard input class instead of MV Input class.<br>Controls now have opacity 0.6 when they can't be used e.g. no previous page if you are at<br>page 1. |

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| 8.7.0.1 | Associated Fields Phrase Records (8*768) | DesignBais Field Properties now creates PH type dictionary items containing the list of associated fields. The association is derived from all fields that share a Group Name. |
| 8.7.0.1 | OFR Start Page (8*769) | You can now provide a starting page in PROCESS.REFRESH<4,nn> for an OFR with paging. Note that the number of actual pages is not calculated until the report has been processed. This means that if your start page is greater than the number of pages then the report will not display any rows. |
| 8.7.0.1 | Auto Focus (8*770) | Auto Focus setting FIRST.TAB logic improved so that showDatePicker is invoked when needed. |
| 8.7.0.1 | OFR Single Column Report Width (8*771) | The line of code below was removed for single column OFRs in order to 'buy back' 2px in the report width. It does not apply to multi-column OFRs and hence, is unnecessary. THIS.WIDTHS<1,NUMBER.OF.COLS> -= 2 |
| 8.7.0.1 | Default Scrollbar Width (8*772) | We now pick up the scrollbar width from the browser and use it as the default for OFRs and MVs. If the style contains a -webkit-scrollbar with a width it will be applied. |
| 8.7.0.1 | Report after a Layered Form (8*773) | A problem was reported when running reports as follows: Run a report â€" works fine. Run a layered form. Run the report again â€" no data is displayed. This seemed to be a corruption of DBEX.SESSION.ID in the processing cycle. The problem has been fixed. |
| 8.7.0.1 | Work Fields to Retain on Form Clear (8*774) | You can now add a list of DBWORK fields that will be retained when a form is cleared. Refer to the Fields to Retain grid in the Forms Designer Update Parameters form. |
| 8.7.0.1 | Select Inline Color Style (8*775) | Select elements were extracting the font color from the DBISTYLE record and applying it as an in-line style. This action has been removed so that the class controls the look. |

| 8.7.0.1 | MV Input Arrow Keys (8*776) | Arrow up and Down keys were not working in some MV columns.<br>Add THIS.EVENTS = ' onkeydown='mvKey(event);' ' for input fields with no After Processing<br>specified.<br>Remove mvKey(event) appearing after checkKeyTAB(event); as checkTabKey already calls mvKey. |
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| 8.7.0.1 | Report Designer field sequence (8*777) | Field sequence for reports has been amended to force a line/box element located at the<br>same row and column as an output field to sort before the output element. In some cases<br>the output field was covered by the background colour of the line/box element. |
| 8.7.0.1 | ~LM PROCESS.STACK option (8*778) | Opening a form which has the Preserve Common and Sub-Form flags set using a new '~LM'<br>option will not clear COMMON as the form is opened but will not return COMMON to the<br>calling form. The calling form therefore will retain the same values in COMMON on return<br>as before the call. |
| 8.7.0.1 | Forms Designer default read variable (8*779) | Fix to include the DBIF.FORM.READVAR, the default front form read variable, in the<br>validation of Update Override flag and Variable to Update in the Update Parameters form<br>DBIFORMS_D90. |
| 8.7.0.1 | CHECKSUM Function (8*780) | A CHECKSUM function was added to DBI.G.DBSPECIFICNET to cater for the D3 OCONV whereas<br>all other databases have an inbuilt CHECKSUM function. |
| 8.7.0.1 | Text Fields in Disabled Sections (8*781) | DesignBais now adds a dbaisState field to TEXT fields in a form so that they may be<br>styled when disabled.<br>dbaisState='E' when the section is enabled<br>dbaisState='D' when the section is disabled<br>Using the css selector .stylename[dbaisState='D'] in your Style Definition will allow<br>styling. |
| 8.7.0.1 | Resize No Longer Called for Code Editor (8*782) | The form resize routine will no longer be called for the Code Editor. |

| 8.7.0.1 | MV Grid Undefined Errors (8*783) | MV fields may be flagged as output only in DBENQUIRY.MODE. These fields put the data directly in the MV table cell rather than in an <input> element. This changes the IDs used.<br><br>Javascript undefined errors were displaying because the wrong ID's were being enabled.<br>This problem has been fixed. |
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| 8.7.0.1 | Global Parameters OFR Defaults (8*784) | There is a new Global Parameter to store the names of on-form reports to which the default display class applies when a row gains focus and when the row loses focus.<br>The record name is OFR.DEFAULTS held on DBIGLOBAL. |
| 8.7.0.1 | DBI.P.ACCOUNT.SETUPNET change (8*785) | The DBI.P.ACCOUNT.SETUPNET routine has been amended to remove CTLG and VOC entries when DBI and DBINET are globally catalogged.<br>This ensures that a new globally catalogged version will be executed.<br>This change effects UniData and OAsys only. |
| 8.7.0.1 | Record Locks (8*786) | Exclusive record locks have, until this release, been of the form FilePath\|RecordID and the exclusive record lock was stored on DBISESSIONS as SessionID*FilePath\|RecordID.<br>These DBISESSIONS keys could exceed the allowed ID length in some databases.<br>The FilePath\|RecordID is now a checksum and the exclusive lock records are multivalued in order to handle cases where the checksum is not unique. |
| 8.7.0.1 | Global Header Default Forms (8*787) | A search option has been added to facilitate finding whether an account name is in the list when the list is large. |
| 8.7.0.1 | Responsive Design Original Record Read (8*788) | Navigating through Responsive Design pages starts a new session for each page.<br>Exclusive record locks were already moved to the new session.<br>Now the original read record will be moved to the new session ID as well. |
| 8.7.0.1 | Date Fields with Dropdown Select (8*789) | DATE fields with dropdowns previously failed as the date conversion was applied to the selected value. This has been corrected so that 'date select' fields now allow the selected value to be returned. |

| 8.7.0.1 | Forms Designer Field List (8*790) | When you change the name of a field in the field list you will now be warned if the field has been used in the Section Conditions or Enquiry Input field list. |
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| | | The new field name will be validated against the same file as the original field. |
| | | Button name changes will be applied to the Form 'Button action to occur when enter is pressed', the field 'CTRL+Enter Button Event', the 'Clear From' button, the 'Write' button and to the 'Enquiry Only' buttons. |
| 8.7.0.1 | Awesome Font in MV (8*791) | Do not apply ~fa conversion to <i> tags for MV input fields. |
| 8.7.0.1 | Highcharts Title (8*792) | Highcharts only needs CHART.TITLE to be set in OUTPUT.ATTR<1> rather than via HAS.TITLE in OUTPUT.ATTR<7> and the CHART.TITLE. |
| 8.7.0.1 | Text Field Events (8*793) | DesignBais added a Process After to text only fields in Forms Designer Properties some time back. This change was to link an event to that Process After. Text only fields will now receive a BUTTON event for a Text Only field with a Process After. The developer must give the textonly field a unique name so that the field clicked can be identified in the application code. The default field names of DBDESIGNERTEXT and TEXTONLY will not be useful in this situatiion. The inline style 'pointer-events' will be set to 'none' for disabled TEXT fields and to 'auto' for enabled TEXT fields. |
| 8.7.0.1 | Force password change after n days (8*794) | An error has been fixed in the DesignBais login form. The password change days value was not forcing a change of password. |
| 8.7.0.1 | Compare function on Editor form (8*795) | HTML character strings are removed before determining the difference between the two entities and highlighting the differences. This change was needed as the trailing ; could be matched and remain in the display. |
| 8.7.0.1 | Button Overflow Hidden (8*796) | New style group definition option to remove the 'overflow:hidden' in-line style applied to buttons. Buttons in V8 include overflow:hidden by default to prevent the button text from displaying outside the button boundaries. Set 'Button Overflow Hidden' off to get the V6 behaviour. |

| 8.7.0.1 | Adding Javascript for an Account (8*797) | There was a bug in the javascript insertion process when the inserted javascript contained comment lines. Line breaks are now converted to '\r\n' rather than simply being removed. |
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| 8.7.0.1 | Forms Designer Context Menu (8*798) | The context menu on fields adds a list of fields that may be below the clicked field. ADD.OVERLAPS now allows for % in column spans. |
| 8.7.0.1 | Global Header and Footer Forms (8*799) | An error has been fixed whereby the global header or footer form was being applied to modal forms when no modal default was defined. If the global default is required it is now simply a matter of specifying the form name in the default modal header or footer field. |
| 8.7.0.1 | Forms Designer Write / No Release option (8*800) | When setting the Write / No Release update type in designer the Null After Write field will now be set to N (No). This facilitates the behaviour as noted in the reference manual: Write/No Release Will write the selected record and keep the optimistic record lock intact. This allows for the design of forms that write the same record multiple times without being trapped by the optimistic record lock verification after the first write. When the Null After Write field is changed to Y (Yes) and the update type is Write / No Release then the user is now prompted to confirm this action. |
| 8.7.0.1 | D3 Compile Errors (8*801) | D3 Compile Errors are now captured correctly. |
| 8.7.0.1 | Date Format Delimiters Restricted (8*802) | The javascript popup calendar allows '/-. ' as delimiters. The date format entry now restricts the delimiter to one of these 4 characters (slash,dash,period and space). |
| 8.7.0.1 | Forms Designer Context Menu (8*803) | Duplicate and Delete Field options needed to set DBDESIGNER.SELECT.ITEM in order to pick up the current field. |
| 8.7.0.1 | Autocomplete (8*804) | New Global General Parameter to switch off autocomplete in supported browsers. |
| 8.7.0.1 | Window Resize (8*805) | DBWLEVEL is no longer incremented during window resize with a modal form open. |

| 8.7.0.1 | Predictive Text (8*806) | Fixed the condition where just the X box displayed in the drop list report.<br><br>Replace vsSingle with predictBlur in Key Press (single) because the former does not work properly on a click event.<br><br>Add KF 'On Key Press and On Focus' and KF1 'On Key Press and On Focus (Single)'. These options will send a VALIDATE event on field focus and just a KEYPRESS on blur - more like the original V6 behaviour. The K 'On Key Press' and K1 'On Key Press (Single)' do the VALIDATE during the blur event after the KEYPRESS. |
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| 8.7.0.1 | DBRESIZEFIELD Percentage Units (8*807) | DBRESIZFIELD now allows for percentage units. |
| 8.7.0.1 | DBISESSIONS Files (8*808) | Sessions files are now all opened to a COMMON array variable for a performance improvement.<br><br>There is a maximum of 50 files applied in the System Parameter maintenance.<br><br>There is a new DBI.DBISS.COMMON block to avoid the need to recompile application code. |
| 8.7.0.1 | OFR Number Display (8*809) | The REPORT element field description has been updated to include the report number i.e.<br>'Report Definition' is now 'Report Definition (nn.nn)'.<br><br>This will then show the report number in the Field List and Review forms. |
| 8.7.0.1 | Focus on Checkbox (8*810) | Fixed the read of the default style when using a DesignBais Style from DBISYSFORMS -<br>GROUP* changed to STYLEGROUP* |
| 8.7.0.1 | Code Editor exclusive lock release error (8*811) | The exclusive lock set by Code Editor was not released when the Record Id was clicked in the DesignBais Exclusive Record Locks display. Fixed. |
| 8.7.0.1 | rdesignbaisdrop Lookups (8*812) | The option to close the dropdownlist will now appear in the heading line above the space left for a scrollbar ... when headings are listed.<br>If no headings are needed then it will display in the first detail row as usual. |

| 8.7.0.1 | Default eXpress field description (8*813) | Fields flagged 'Include in eXpress Reporting' that have no Express or Report Heading were<br>not displayed in the eXpress field list when creating an eXpress report. These fields are<br>now displayed with a default field description 'Desc Missing (fieldname)' where fieldname<br>is the name of the field property. |
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| 8.7.0.1 | Forms Designer Section Control (8*814) | Fields on a form which have a process after using the keypress option can no longer be<br>used in the Condition by Field to control section behaviour. This is because the keypress<br>event does not fire if the field is in the Condition by Field list. |
| 8.7.0.1 | MV Valid Input List Only (8*815) | A recent change to default the field to the first value in the valid input list broke the<br>MV Add function when the dropdown list was the only field in the MV set. |
| 8.7.0.1 | Date Picker showOn Setting (8*816) | DesignBais was setting showOn='none' or 'focus'. The value 'none' is invalid and no<br>setting will now be sent. |
| 8.7.0.1 | Month Name in Dates (8*817) | Pick OCONV 'D4' or 'D4L' will display dates with short month names in upper or text case.<br>This has been enabled in the 'Date Format' option for a User, System or Global Parameter<br>via an uppercase M or ML in the month position. |
| 8.7.0.1 | DBDESIGN.POS or clickPos (8*818) | We now keep all clickPos details in DBDESIGN.POS i.e. browserXpos-browserYpos-fieldType-fieldXML-formXpos-formYpos.<br>Originally used in Forms Designer only and was simply browser Xpos-Ypos.<br>The form position information is useful when forms are centred. |
| 8.7.0.1 | Draggable Panel (8*819) | Separate styling has been added for the form draggable panel in StyleGroup maintenance<br>rather than relying on the modal form styles.<br>Panel draggable title bar height is now picked from the style with a minimum height of<br>10px rather than have the minimum 30px associated with modal forms. |
| 8.7.0.1 | Select DICT Item (8*820) | The '_s' dictionary item created when a Select Conversion is entered on a field is now<br>deleted when the Select Conversion is removed or the field becomes a Work Field. |
| 8.7.0.1 | Open Code Editor for all subroutines on a Checklist Page (8*821) | Developers can now open Code Editor for all subroutines listed on a checklist page. Click<br>the 'Edit' button in the header row of the grid. |

| 8.7.0.1 | Editor Close via X (8*822) | Editor exclusive lock records are now cleaned up when the tab is closed. |
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| 8.7.0.1 | Test Harness (8*823) | The Test Harness was not working. It is now working again. |
| 8.7.0.1 | Update matching fields on form refresh (8*824) | When values in the browser are refreshed after a server hit it is necessary to update all<br>matching fields (Same Attribute, MV, SV & Read Variable) to the entered value from the<br>event source element.<br>In a particular case the routine was matching the MV position against the attribute<br>position. This bug has been fixed. |
| 8.7.0.1 | Multivalue Clear After Write (8*825) | Multivalues were not being cleared if the EVENTSOURCE changed during the processing.<br>DesignBais now also checks DBORIG.EVENTSOUCE for a WRITE button that triggered a clear. |
| 8.7.0.1 | Selection Process (8*826) | Include B.SEARCHDESIGNBAIS for program driven selections that include a list of<br>DBIS.ENTRY.SUPPLIED entities. |
| 8.7.0.1 | Rebuild Dictionary for all DBIFILES (8*827) | There is a new link in the Field Properties form to trigger a rebuild of the dictionary<br>records for all DBIFILES records. This displays a report of any missing dictionary items<br>and any dictionary items where the rebuilt record does not match the previous record.<br>There is an option to only add missing dictionaries and not to update non-matching items.<br>This gives developers an option to find any missing items but not disturb dictionaries<br>that may be bespoke. |
| 8.7.0.1 | Selection Form Page Controls (8*828) | The page controls in a Selection Process now obey the Style Group option to place them<br>below the OFR - the other fields are moved down to leave space. |
| 8.7.0.1 | Email Report as Spreadsheet (8*829) | There was a problem with emailing a report as a spreadsheet when DBMail was not active. |
| 8.7.0.1 | Col Span 100% (8*830) | Do not apply the colspan 100% width calculation of calc(100% - col - 10px) if the element<br>starts in col 0.<br>This was originally designed to center elements flagged as 100% width and allow for a<br>scrollbar. |
| 8.7.0.1 | CRASH (8*831) | DesignBais now logs the CRASH XML on DBIXMLLOG to assist with identifying the cause of<br>the CRASH. |

| 8.7.0.1 | Responsive Design Page Deletion (8*832) | Upper case page names and folders with '/' were not being deleted. Now fixed. |
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| 8.7.0.1 | DBI.G.DYNAMIC.FORMNET (8*833) | Added GOSUB DEL.OTHER.FIELDS when deleting fields to clean up enquiry only fields & clear from field. |
| 8.7.0.1 | Dialog Box Positioning (8*834) | When using Dialog Box display for IERR.TEXT or DBDS we now position the dialog box near the element for IERR.TEXT or near the next element for DBDS. You can set DBRETURN.TO.FIELD to position near a different element but this field will also be where focus will be set. For OFRs using DBDS as a dialog you must set either DBRETURN.TO.FIELD or DBREPORT.UPDATE if you want focus to move to a new row otherwise the original eventsource is used. Focus will now be correctly set on the default button in the dialog box. |
| 8.7.0.1 | Express Reports in End of Period (8*835) | It is now possible to include eXpress Reports in an End of Period definition. |
| 8.7.0.1 | Derived Fields in Selection Process (8*836) | Selection processes may now include DERIVED fields in the Fields to Display list. The subroutine on the Field Definition will be called with the nominated parameter with '|' key field value. PROCESS.EVENT = 'DERIVED' PROCESS.EVENTSOURCE = Field Name PROCESS.PARAMETER = Field Parameter | Select Key DesignBais Code Blocks (C:) have not been included at this stage. |
| 8.7.0.1 | Forms Designer Section Sorting (8*837) | The form sections are sorted by row to save doing it at run time. Unfortunately it was using 'R%4' which caused problems with sections after row 9999 - they were not collapsing correctly. 'R%6' now in place = 999999 rows should be enough! |
| 8.7.0.1 | Report Row Attributes DBREPORTROW.ATTR (8*838) | DBREPORTROW.ATTR has the same structure as DBREPORTHEADER.ATTR but is applied to OFR rows. This allows rows to be collapsed using display:none. Class for a row may be set with class=fred - NB quotes will be removed and re-added by the DesignBais. Your own attributes may also be added via attrName=fred for use with your own javascript. |

| 8.7.0.1 | Report Variable Paging (8*839) | If rows are collapsed in an OFR then child rows appearing on subsequent pages also need to be collapsed. In order to achieve this the OFR page breaks will not necessarily occur at a constant row count increment. DBPAGEDEPTH was an unused COMMON variable and has now been utilised for this purpose. DBPAGEDEPTH<REPORT.NUMBER, PAGENO> or DBPAGEDEPTH<REPORT.NUMBER, SUBELEMENT, PAGENO> may contain the number of rows for the OFR page. |

**Fixes and Enhancements Release 8.6.0.2**

**Checkbox in MV grid**

| | | Invoice No | Invoice Date | Invoice Amount | Paid |
|---|---|---|---|---|---|
| | | | | | |

Display a check box in a MV Grid

Client Code: 111
Client Name: FRED BLOGGS DBDEMO

Submit

| | | Invoice No | Invoice Date | Invoice Amount | Paid |
|---|---|---|---|---|---|
| → ✖ | 9872 | 16/01/2017 | 1.00 | ✔ |
| → ✖ | 11344 | 16/01/2017 | 2.00 | ☐ |
| → ✖ | 12989 | 10/11/2019 | 3.00 | ✔ |
| → ✖ | 13456 | 16/01/2017 | 122.00 | ✔ |
| → ✖ | 13544 | 22/02/2022 | 457.00 | ☐ |
| → ✖ | 14001 | 16/01/2017 | 5.00 | ☐ |
| → ✖ | 14011 | 11/11/2019 | 6.00 | ☐ |

**Find Control Characters**

**Check for Special Characters**

Search for the special characters checked below

☑ Char 0 thru 13
☑ Char 14 thru 31
☐ Char 127
☑ Char 128 thru 249

Specified Other Characters

File Name: BGLIB — BGLIB ☑ Display File Name Dropdown
Item Name:

☐ Update - Remove specified special characters

Triage

| Cnt | File Name | Item Name | Character | Description | Occurrences |
|---|---|---|---|---|---|
| 1 | BGLIB | | 1 | SOH Start of Header | 1 |
| 2 | BGLIB | | 2 | STX Start of Text | 1 |
| 3 | BGLIB | | 3 | ETX End of Text | 1 |
| 4 | BGLIB | | 4 | EOT End of Transmission | 1 |
| 5 | BGLIB | | 5 | ENQ Enquiry | 1 |
| 6 | BGLIB | | 6 | ACK Acknowledge | 1 |
| 7 | BGLIB | | 7 | BEL Bell | 1 |
| 8 | BGLIB | | 8 | BS Backspace | 1 |
| 9 | BGLIB | | 9 | HT Horizontal Tab | 5580 |
| 10 | BGLIB | | 11 | VT Vertical Tab | 1 |
| 11 | BGLIB | | 12 | FF Form Feed | 1 |
| 12 | BGLIB | | 13 | CR Carriage Return | 1 |
| 13 | BGLIB | | 148 | " | 12 |

**Styling MV Grids using DBMVPROP**

## Additional input types and fixed columns in On-form reports



## Custom Hicharts Export Menu image

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.6.0.2 | Development Checklist changes (8*705) | New option 'Exclude DBI Items' to exclude DesignBais entities from a checklist page. Not visible to end users. |
| 8.6.0.2 | Session Reinstatement DBPARKSESSION (8*706) | A change made to reset variables when a new form is initialised needed to be by-passed when reinstating a session. DBW3CQSTRING is now included in RTN.URL for DBPARKSESSION calls. |
| 8.6.0.2 | jBase No Items Selection (8*707) | QLNONSEL is now used in the jBASE port to check for the selection of no items. |
| 8.6.0.2 | jBASE PHANTOM (8*708) | jBASE Phantoms were not completing correctly as the control item was written out of sequence. |
| 8.6.0.2 | TOPMENUID initialised for D3 (8*709) | The unassigned variable error on the first login in DBI.G.FOOTERMNET in the D3 port has been fixed. The variable DBREPDESIGNER in DBI.G.CAJAXNET is now initialised. |
| 8.6.0.2 | System Parameters Meta Data (8*710) | The System Parameters Meta Data tag is now included in report output. If the System Parameters Meta Data Tag is populated then it will be used instead of the Global value, otherwise the Global will be applied as usual. |
| 8.6.0.2 | Apply DBMVPROP to Grid (8*711) | To save on traffic between the database and the web server MV grids are not refreshed unless necessary (ie something has changed). Rebuild happens when: - Max values > rows painted - Read / Write update event that affects the grid - Grid combo dropdown list changed - RDMODE & a MV delete or insert row event Developers can set DBMVPROP<26,nn> = 1 to force a grid rebuild to apply changes to the grid properties. |
| 8.6.0.2 | Checkbox in MV Grid (8*712) | It is now possible to flag a multivalue grid element to display as a checkbox. Refer to the Designbais Reference Manual. |
| 8.6.0.2 | Checklist Merge Page option (8*713) | There is a new option in the Development Checklist tool to merge checklist pages. |

| 8.6.0.2 | Glossary (8*714) | The Glossary was ignoring messages if '.DESIGNER' screen tags had been processed earlier in the session.<br>The variables are now reset after ignoring any '.DESIGNER' updates.<br>Designer updates are ignored as the text may not be finalised and are not accessed at runtime via a 'DESIGNER' form. |
|---|---|---|
| 8.6.0.2 | Menu Subroutine to invoke before screen (8*715) | The DesignBais logic associated with the Subroutine to invoke before screen in the Menu Definition maintenance form has been changed to re-instate the logic used in DesignBais Version 6.<br>In V6 the DBSUBROUTINETOCALL logic ran the routine for a new form OR for a menu event.<br>In V8 the routine was only called after a menu event. It is now called when any form is run as well as for a menu event. |
| 8.6.0.2 | Find Control Characters (8*716) | A new function to find and remove control characters in any file or record has been added to the Upgrade/Migration Tools menu. |
|  |  |  |
| 8.6.0.2 | Menu Subroutine to invoke before screen (8*715) | The DesignBais logic associated with the Subroutine to invoke before screen in the Menu Definition maintenance form has been changed to re-instate the logic used in DesignBais Version 6.<br>In V6 the DBSUBROUTINETOCALL logic ran the routine for a new form OR for a menu event.<br>In V8 the routine was only called after a menu event. It is now called when any form is run as well as for a menu event. |
| 8.6.0.2 | Find Control Characters (8*716) | A new function to find and remove control characters in any file or record has been added to the Upgrade/Migration Tools menu. |

| 8.6.0.2 | Additional Input types in On-form report cells (8*717) | There are now additional input types that can be specified in On-form report cells:<br>I - Input (existing type)<br>IA - Input alpha characters<br>IN - Input numeric (integer)<br>INn - Input numeric with n decimal places<br>ID - Input date |
|---|---|---|
| 8.6.0.2 | Fixed columns in On-form report (8*718) | Fixed columns can now be specified in an on-form report. Set the width using the existing<br>'A' preceding the first column OUTPUT.WIDTHS value.<br>Use PROCESS.REFRESH<3> to specify the number of fixed columns.<br>If, for example, this is set to 2 then the first two columns of the report will remain in<br>view when the horizontal scroll bar is scrolled. |
| 8.6.0.2 | New Common Variable DBHIDECLOSE (8*719) | Developers can use DBHIDECLOSE to control the display of the modal form close button and<br>the modal form title text. |
| 8.6.0.2 | Customised Hichart Export Menu image (8*720) | Devlopers can now use OUTPUT.AT<50> tp specify the name of an image, the size and x,y<br>coordinates. This will replace the standard hichart hamburger menu image. |

**Fixes and Enhancements Release 8.6.0.1**

**Forms Designer Defaults**

The following enhancements are available in Forms Designer:

- Forms Designer – the ability to lasso elements for "Multi Fields" or dragging
- Forms Designer – the ability to resize elements with the mouse
- Forms Designer – the ability to drag elements to a new position
- Context Menu – see details below

The following fixes for reported issues are included in this release:

- IERR.TEXT and DBDS – positioning and focus issues
- MV Grid refresh – the grid is now cleared when a modal form is invoked after a write

**Context Menu**

A context menu can be triggered by a mouse right-click within a field when running a form or, in Forms Designer, by a right-click on the canvas. A new event "CONTEXTMENU" has been introduced.

Set the *oncontextmenu* custom attribute on the field. This will cause a right-click on the field at runtime to trigger the *CONTEXTMENU* event.

## Input Field Definition                    Submit

| | | | |
|---|---|---|---|
| File Name | DBCLIENT | Field Name | DBC.CLIENT.CODE |
| Field Text | Client Code | | |

Variable to Use   DBRECORD - File = DBCLIENT - Read = DBC.CLIENT.CODE ▼

Section   Main

| Row | 20 | Column | 110 | Row span | 13 | Column Span | 90 |
|---|---|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Field Type | ALPHA | Attribute | 0 | Multivalued | N |
| Field length | 12 Alt Length | Input has a maximum length | ☐ | | |

Lookup File

Justification   [Default from Field Type] ▼

Display Class   Input ▼

Process Before                                         Pa

Process After   DB.I.DBCLIENT                          Pa

Mandatory Field   ☐        Change Event Will Fire   On Change - Tab Out [D

Z-Index Order             Field Hit Blocker Mode   -- Inherit Setting --

Custom Attributes   oncontextmenu="getMouse(event);event.preventDefault();"

The basic subroutine event handler defined in the process after slot of the field can then set the menu to be displayed. Sample code is shown in the Database Component manual.

```
CASE THIS.EVENT = "CONTEXTMENU"
   GOSUB CONTEXTMENU
```

Use the new subroutine to set up a context sensitive menu for a selected form field:

DBI.G.CM(MENU.ID,MENU.ITEMS,CONTAINER.STYLE,MENU.STYLE,XPOS,YPOS,DWIDTH,DHEIGHT)

Refer to the Database Component manual for more details.

**Report Designer**

There is a new option in Report Designer to include or exclude break fields from the XLS extract.

There is an additional equate in DBMail to reference attribute 31 of the record passed to DBMail:

EQU DBM.XLS.TXT.DELIM TO 31   ;* Text surround character e.g. 34 or '""'

The field defaults to 0 if not provided, indicating no text surround character is required. For example:

DBMAIL.REC<DBM.XLS.TXT.DELIM> = '34'

The value 34 would correspond to CHAR(34) which is a double quote.

**DBI.G.AJXCMD**

When utilizing this subroutine the millisecond delay value is not passed in the same attribute for all functions. Refer to the Responsive Design manual. For the *rdHideAllRows* function it is passed in attribute 2.

```
AJX.CMD = 'rdHideAllRows'
AJX.PARMS = 'body'
AJX.PARMS<2> = 300
CALL DBI.G.AJXCMD(AJX.CMD,AJX.PARMS)
```

**Highcharts**

Developers can add the following script to either Global or System Meta Data to get a default "No data to display" message:

<script src="charts/modules/no-data-to-display.js?v=4302" type="text/javascript"></script>

**Global Meta Data Parameters**

Script References | <script src="charts/modules/no-data-to-display.js?v=4302" type="text/javascript"></script>

Premiums by policy class

No data to display

**Break Row in OFR**

"@BR@" embedded in the text for an OFR cell will be converted to the HTML <br> after any HTML encoding.

This provides a mechanism to insert new lines in text in an OFR cell but allows strings such as <input> to be displayed using the text string *&lt;input&gt;*

**Data Extraction tool**

In this release there is a new tool to extract data from your database files and write it to a sequential file. It is accessed from the *Upgrade/Migration Tools* menu:

▲ Upgrade/Migration Tools
   ▸ DesignBais Upgrade
    Find String
    Compare
    Form Compare
    Form Fields
    SB+ Conversion
    Form Style Group Change
    Join Files
    Clean File Data
    **Data Extraction**
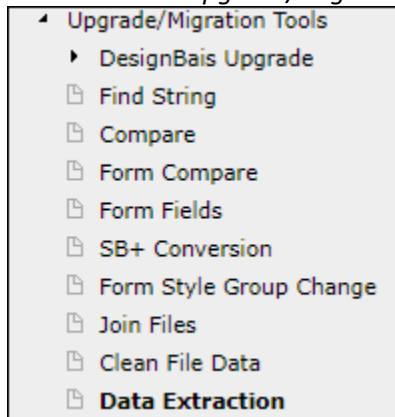
**Recent Lists**

There is a new option to pin items to the list.

| Seq | Description | File Name | Form Name | Pin | Del |
|---|---|---|---|---|---|
| 1 | Data Extract Definition | DBIEXPORT | EXPORT | 📌 | 🗑 |
| 2 | Test Google Address | DBCLIENT | ADDR | | 🗑 |
| 3 | Select DBCLIENT | DBCLIENT | SDBC2 | | 🗑 |
| 4 | List DBIUSERLOG by Date & User | DBIUSERLOG | RUN.R10 | | 🗑 |
| 5 | Recent Items List | DBIUSERS | D90 | | 🗑 |
| 6 | eXpress Report Designer | DBIPARMS | M10 | | 🗑 |
| 7 | Client Test & File | DBCLIENT | RG | | 🗑 |
| 8 | Test XML Web Service | DBDEMO | WS | | 🗑 |
| 9 | Test Form v7 | DBCLIENT | GENERALTEST | | 🗑 |
| 10 | Compare Accounts and Files | DBICHKEXTRACT | ACC.COMP | | 🗑 |

Total Rows 20    Page  1 / 2

**Express – Cabinets**

Use mouseover to show the name of the database file linked to the Available Cabinets.

**Cabinet – Report Interface**

Available Cabinets
- End of Month Reports
- Miscellaneous Reports
- Dem— —————
- BA Database file: DBCABINET2

Available Drawers
- EmailTest
- End of Day - 05 SEP 2018
- End of Day - 01 SEP 2018
- TEMPORARY - Garrard, Bob

**Subroutine Help**

To assist developers to quickly access help for often-used subroutines there is now a *Subroutine Help* button on the *Code Editor* form (DBIUSERS_D80). This lists standard DesignBais subroutines but end-user subroutines can be added by developers. For DesignBais subroutines similar help is available in the DesignBais Reference Manual but this option provides faster access.

DesignBais Subroutine - DBI.G.EMAILREPORT

Use this subroutine to email report pages to recipients.

There are 4 arguments:

CALL DBI.G.EMAILREPORT(CABINET.FILE,DRAWER.NAME,REPORT.NAME,EMAIL.PREF)

- CABINET.FILE    - the name of the cabinet file that contains the report
- DRAWER.NAME   - the name of the drawer within the specified cabinet file
- REPORT.NAME    - the name of the report held in the specified drawer
- EMAIL.PREF      - either a numeric value indicating the multivalue position in EMAIL.PREFERENCES or an alphanumeric value indicating the name of a DBMail template

Notes regarding DBMail Templates

- The report must contain the @EMAILPRINT|email_address string on each page. The email_address from this string is used by DBMail as the Send To email address.
- The DBMail template name will be of the form DBMAIL*template_name. DBMail templates are held on DBIPARMS if the template is only available in a specific account or on DBIGLOBAL in which case the template is available globally. Template names are always preceded by the string DBMAIL*.
- For example a template named SURVEY will be held on file (either DBIPARMS or DBIGLOBAL) with a record id of  DBMAIL*SURVEY.
- The template will supply the email subject and the body of the email. The report will be an attachment to the email. Templates that contain template fields (field names enclosed in a designated field enclosing string) must not be used since there is no mechanism available to populate these fields.

Notes regarding the use of EMAIL.PREFERENCES

- Email Preferences are accessed from the Email Report Details form (DBIPARMS_M32).
- The data is stored in 4 multivalued attributes in a record on DBIPARMS with id of DBEMAIL.PREFERENCES.
- As can be seen from the example below the email subject is derived from the first attribute, the send to address is in the second attribute, the email body is in attribute 3. The owner of the entry is held in attribute 4.
- Warning. If a user deletes an entry from this record then the multivalue position of entries will change. This can cause an error if a call to DBI.G.EMAILREPORT has been embedded in an

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.6.0.1 | Delete MV Row dialog (8*616) | If answering 'No' to the delete row prompt for a MV grid, there were issues during the next event as one of the internal control variables was not cleared.<br>Surfaced in a Responsive Design form when the delete row button was clicked but was not accepted. If the following event was a page movement then the data was lost. This has been fixed. |
| 8.6.0.1 | Disable/Enable MV Header Process (8*617) | When a MV field with a header process is disabled then the header process is now disabled as well. |
| 8.6.0.1 | Purge (8*618) | In the DesignBais nightly purge a WRITE USER.LOCKS statement has been added to ensure the record is released. |
| 8.6.0.1 | Copying Workflow entities (8*619) | When copying workflow processes, steps and rules the following fields are now cleared and reset:<br>Date Created, Date Updated set to todays date.<br>Created By, Updated By set to the current logon user (WEBLOGON).<br>Start Date set to todays date if the original date is null or less than todays date.<br>For workflow processes the list of date and time processed are cleared. |

| 8.6.0.1 | Add Print Form Button to Form (8*620) | The Add Button to form function, on the Code Editor form, now allows a print form button to be added or removed from a form or all forms. Refer to the Code Editor form - button 'Add Button'. |
|---|---|---|
| 8.6.0.1 | Print Form (8*621) | Simple javascript escape characters are now removed from screen data in DBI.G.PRINTFORM. DBFIELDSTATES which lists hidden fields is now rebuilt for the base form when a modal form is closed.<br>All OFR data will be shown with correct paging in the display report form. |
| 8.6.0.1 | Workflow user-defined subroutine for email logging (8*622) | It is now possible to call a user-defined subroutine just prior to sending workflow generated emails in any workflow process.<br>The subroutine name is defined in the Control option on the Workflow menu.<br>The subroutine should include DesignBais common (DBI DBI.COMMON).<br>The DBMAIL.REC that is passed to the DBMail processor is loaded into DBVALUE prior to calling the user-defined subroutine, allowing the opportunity for the developer to amend DBVALUE and thereby amend the DBMAIL.REC record.<br>On return from the subroutine DesignBais common is reset to the pre-call state. |
| 8.6.0.1 | Forms Designer Field Resize & Drag Options (8*623) | Buttons to enable field resizing with the mouse have been added.<br>'Resize' button sets field outlines that can be dragged to the right or downwards to change the column span or row span of fields.<br>'Resize Off' removes the field outlines.<br>NB: setting resize outlines must wait for any CAPTCHA image to be displayed.<br>Fields may now be dragged into position. On some elements you can only drag via the border. On input elements the draggable box is normally larger than the element. The cursor will change when you can drag the element. |
| 8.6.0.1 | Highcharts Pie Chart with No Data or Chart with No Series (8*624) | A Highcharts Pie Chart with No Data or a chart with No Series were found to cause a javascript undefined error.<br>The pie chart javascript that is created has been amended so that there is no longer an undefined error.<br>If no series is provided for a chart then a column graph is produced by default.<br>Developers can add the following script to either Global or System Meta Data to get a default 'No data to display' message:<br><script src='charts/modules/no-data-to-display.js?v=4302' type='text/javascript'></script> |
| 8.6.0.1 | Report Designer Two Pass Reports (8*625) | Two Pass Reports contained blank pages and missing data due to the output page counter becoming out of step with the number of pages produced.<br>This problem has been fixed by a change to reset SINCE.LAST.OUTPUT for 2 pass reports |

| 8.6.0.1 | RD Functions (8*626) | A default of 0 millisecond delay is now applied to rdShowAllRows, rdHideAllRows, rdShowSection, rdHideSection, rdHideMessage & rdHideMessageAll to avoid an error in IE when a value is not supplied by the developer. |
|---|---|---|
| 8.6.0.1 | Highcharts (8*627) | Variable unassigned error introduced in the javascript escape change has been corrected. |
| 8.6.0.1 | Favorites (8*628) | Update the recent list in Favourites (form D50) when item is run from Recent list (form D90). |
| 8.6.0.1 | Recent Lists (8*629) | Option to pin an item in the list. Option to delete an item from the list. Click headings to sort the OFR. Move Description to first column. Increased to 20 items + any pinned items. |
| 8.6.0.1 | Form and Report Designers (8*630) | IERR.TEXT and DBDS are now displayed as Alerts rather than dialog boxes in Forms and Report Designer. |
| 8.6.0.1 | Multivalue IERR.TEXT and DBDS Dialog Boxes (8*631) | An incorrect element ID was causing undefined errors when an error was displayed as a dialog box from a MV field. This has been fixed. |
| 8.6.0.1 | File Upload (8*632) | Set the default uploadwindow UFN (Unique File Name parameter) to 'false' rather than 'no'. |
| 8.6.0.1 | DBMail Excel Conversion (8*633) | DBI.G.DBMAIL changes: - CSV required for Excel conversion. - Worksheet field treated as multivalued in line with attachment file - Delimiter treated as multivalued |
| 8.6.0.1 | showDialog (8*634) | '<fred>' fails to display in a showDialog as it is treated as invalid HTML, however '< fred>' or '<fred>' work. We can't automatically HTML encode the showDialog message < & > as applications use '<B>' for bold and '<br>' for a new line. For IERR.TEXT and DBDS in a Dialog Box, we now pass the XML id to DBI.G.CAJAXNET(5) in order to position the dialog correctly. We also do any error showDialog after the base form focus is set. |
| 8.6.0.1 | Dialog Boxes (8*635) | Do not position normal dialog boxes (TASK.TYPE=7) based on DBDIALOG.PARAM. |
| 8.6.0.1 | Report Export to Excel (8*636) | DBDERIVED fields from the break sections were not included in the column headings if they were sub-total fields. This put the headings and data out of alignment and data columns were lost. This has been fixed. |
| 8.6.0.1 | MV Refresh (8*637) | Multivalue grids are now cleared after a WRITE with 'Null after Write' set or if a button clears the variable used AND PROCESS.STACK is set. |

| | | |
|---|---|---|
| 8.6.0.1 | DBI.G.WOSNET Variable Unassigned (8*638) | The statement FIELD.RETURN.PROCESS = '' was added to avoid a variable undefined error. |
| 8.6.0.1 | OFR Embedded HTML fields (8*639) | A tabindex is now added to OFR embedded HTML using the @PARENT function. |
| 8.6.0.1 | Lock Table Full (8*640) | A problem was uncovered when a site has a large number of users that need to be removed from the active user list.<br><br>This could happen if DBISESSIONS is cleared.<br><br>The code clearing the active user list was leaving browser (cookie) records locked.<br>This has been corrected. |
| 8.6.0.1 | Get Screen Routine (8*641) | When changing account it was noticed that the form field properties were not being loaded when the DBLAST.MAIN.FORM variable had been set to the target form for the user.<br>Forced the loading during the first 3 hits.<br>Added SESSION.REC<DBISS.THISLOAD> <= 3 to trigger setting of DBREFRESH.LIST rather than just SCREENROOT # DBLAST.MAIN.FORM<br>Not valid for Responsive Design as there is a restart with every page. |
| 8.6.0.1 | Time Validation (8*642) | V6 allowed entry of a decimal in a time field.<br>This is now available in V8.<br>The ajxw3c.js needs updating in the web component. |
| 8.6.0.1 | Save report to cabinet (8*643) | If a new drawer description was added without selecting a cabinet the cabinet defaulted to the top entry but the check for duplicate drawer description was not done. This bug has been fixed.<br>Mouseover on the Available Cabinets and Available Drawers reports now displays the database filename and the drawer id. |
| 8.6.0.1 | Subroutine Help (8*644) | Subroutine Help has been added to the Help Definition menu. This feature allows developers to document the method of use of subroutines within their application so that all developers have access to how to implement a particular routine.<br>A new Subroutine Help button on the Code Editor form provides enquiry access to this documentation. In addition help for standard Designbais subroutines that have been documented in this manner can also be viewed. |
| 8.6.0.1 | Import of Help documentation (8*645) | When creating form help and subroutine help documentation it is now possible to import the Form Help Text (or Subroutine Help Text) from an existing help record.<br>Use the Import Help Text button after entering the id of the form or subroutine to be documented. |

| | | |
|---|---|---|
| 8.6.0.1 | Copy DBMail Template (8*646) | It is now possible to copy an existing DBMail template by clicking the Copy Template link in the header bar of the Template maintenance form. |
| 8.6.0.1 | New Global Parameters option DesignBais File Location (8*647) | The DesignBais File Location form allows the developer to record custom setup details for the DesignBais setup routine DBI.P.ACCOUNT.SETUPNET.<br>Typically DesignBais files are either local to an account or located in a shared directory so that multiple data accounts can share the DesignBais files.<br>Use the DesignBais File Location form to record the location of a particular DesignBais file such as DBIAUDIT.EXT which can be shared across multiple user environments. |
| 8.6.0.1 | Close Tab via X (8*648) | The user should be removed from the Active User list as soon as they close one browser TAB via the X.<br><br>Under some circumstances this was not happening. |
| 8.6.0.1 | OFR Input Fields (8*649) | Input fields in on-form reports needed javascript escaping in order to allow entry of a single quote in the data. |
| 8.6.0.1 | Hicharts Data (8*650) | Hicharts data is now no longer HTML encoded. |
| 8.6.0.1 | Run RD Page as External Modal (8*651) | Using the externalDBModal flag on a DBCALLURAL with a page query string parameter will invoke the Responsive Design Page in a separate tab.<br>The original tab will be paused until you return.<br>Return by DBCALLURL to your website with return.aspx replacing dbnet.aspx.<br>Common will be passed when pages are flagged as Preserve Common. |
| 8.6.0.1 | Styled Checkbox and Radio (8*652) | A tabindex is added to the label wrappers of a styled Checkbox or Radio button to enable focus on the elements. |
| 8.6.0.1 | Enter Key in MV Grid (8*653) | When there is no defined button action to occur when enter is pressed on a form then the enter key is treated like a tab key when pressed within a MV grid.<br>The tab is needed to trigger a row add from the last cell of the grid and pass through the auto focus logic in order to move to the next cell.<br><br>Auto focus logic is needed to skip MV click columns. |
| 8.6.0.1 | MV Grid After Read Error (8*654) | Undefined errors were generated when a multivalue grid had no rows to display after a read error.<br>No detail elements were built and hence javascript errors resulted when data for a blank row was updated.<br>Now, in this scenario, no detail row will display in the grid. |

| 8.6.0.1 | Dropdown Lists (8*655) | Dropdown values need to be javascript escaped. The issue came to light when the list of UniData account paths was not displaying correctly. In general this is an issue for any dropdown list data containing backslash, quotes, etc. |
|---|---|---|
| 8.6.0.1 | Read Field Focus (8*656) | A read field was regaining focus after clearing the field.<br>DesignBais will now only return to the read field if there is an error. The read variable is still cleared. |
| 8.6.0.1 | OFR Embedded Elements (8*657) | DBREPORT.UPDATE has new options to enable styling of the child elements when embedding your own HTML using @PARENT to generate the IDs and to style the parent <td> when using OUTPUT.TYPEs I (<input>) and T (textarea).<br>Apply the initial height setting in OUTPUT.ATTR to input or textarea elements for OUTPUT.TYPEs I or T. The table elements take their height from the contents - this change gives more control over the row height.<br>Refer to the Data Component manual section on DBREPORT.UPDATE. |
| 8.6.0.1 | Excel Currency Fields (8*658) | To enable Currency Symbols to be imported to Excel developers need to encode the data in utf-8 format. This coupled with the Culture setting will allow currency fields to be identified. |
| 8.6.0.1 | MV Refresh after PROCESS.STACK (8*659) | The logic to identify which form to use to update grids during a PROCESS.STACK has been amended.<br>It was found that grids were not cleared in the base form after an event that cleared the read variables and opened a layered form. |
| 8.6.0.1 | Repeated Report Fields and Derived Fields (8*660) | Repeated Report Fields are now exported to Excel correctly.<br>The previous change to include derived fields in the Excel export also exported all break fields. This has been corrected.<br>Break fields that are included in the detail section are no longer duplicated in the Excel export.<br>Derived fields are now included in the Excel export. |
| 8.6.0.1 | Initial Date Error (8*661) | The lastVal attribute has been added to date fields to prevent a 'null' value after an initial invalid entry. |
| 8.6.0.1 | Move On Form Report Page Controls (8*662) | DBMOVEFIELD and DBMOVESECTION now also move the On Form Report Page Controls. |
| 8.6.0.1 | Selection Focus (8*663) | Internal event source DBSV.GOTOPAGE focus throws a javascript undefined error if the page controls are displayed. This has been fixed. |

| | | |
|---|---|---|
| 8.6.0.1 | Menu Subroutine Call (8*664) | Originally added for context menus this option is now available for all menus.<br>The process event remains as CONTEXTOPTION. A parameter can be added in the menu 'Process to Run' as the fourth tilde separated option. |
| 8.6.0.1 | Report Run Time Options (8*665) | The documented options REPORTEMAIL, REPORTHTML and REPORTPRINT inherited from v6 DesignBais have been amended.<br>REPORTHTML should have been documented as HTMLEMAIL - both now work.<br>REPORTPRINT works in v8 but takes you to the browser print preview instead of the activeX printer control.<br>REPORTEMAIL in v6 emailed a REPnnnnn.XLS file which was in fact a TAB separated file.<br>REPORTCSV has therefore been added to email a true CSV file.<br>If one of the run time options is present then 'Default to Preview' is now ignored. |
| 8.6.0.1 | Email Report CSV Data to Self (8*666) | A new option has been added to the Print Preview 'Actions' dropdown to allow the sending of a CSV data file rather than an Excel converted file. |
| 8.6.0.1 | DBRETURN.TO.FIELD After An Error (8*667) | The DesignBais logic was doing a LOCATE which could find the wrong field if the field name was repeated on a form.<br>The error handling logic now LOOPs to find an INPUT field. |
| 8.6.0.1 | Auto Focus (8*668) | When tab indexing is not in use then, when setting focus, the rowspan of form elements is now checked to avoid setting focus on fields with rowspan of zero.<br>Other changes to the DesignBais engine logic had disturbed the set focus action. |
| 8.6.0.1 | Max Total File Size for uploadWindow (8*669) | A default of 500mb is now in place if the data component fails to specify the total file size. |
| 8.6.0.1 | BAWEBEXECNET Variable Undefined (8*670) | TO.PERD - Timeout Period - needed to be set earlier for the uploads authentication changes. |
| 8.6.0.1 | Style Definition Font Calculation (8*671) | The automatic Font Size calculation on submit of a style could cause problems on a slow system. The function should click the Calculate button to set character widths and line height for the font in the style. If the button wasn't rendered before the click event was invoked then DesignBais remained in the modal level.<br>The form DBIPARMS*D40 now uses the CLICK.TIMEOUT property for the btnCalculate button. |

| | | |
|---|---|---|
| 8.6.0.1 | Forms Designer Additional Script for Ajax (8*672) | Scripts are added to the <head> section of the HTML page when a form is first loaded using addScript if a <script> tag with a src attribute is present otherwise using addCode.<br>Any addCode script will execute on the first time that the form is loaded.<br>@program will call a subroutine with 'LOAD FORMSCRIPTS' as the PROCESS.EVENT - use SCREENROOT to know which form. Return the script tag in DBVALUE.<br>Scripts may be executed from form events by adding them to the COMMON variable DBAJAXCMD which is attribute delimited. Each command to be executed must be terminated with a semi-colon and three spaces.<br>To run a script as the script is loaded set an attribute dbonload in the <script> tag e.g. <script dbonload='alert('Hello World')'>.<br>The default script name will be SCREENROOT:'_scr_':nn (nn in case there are more than one <script> tags in the field. You can set your own script name in an attribute dbname. The name is recorded in the SESSION.REC to avoid loading the same script more than once. |
| 8.6.0.1 | Message on DesignBais Login forms (8*673) | A message van now be displayed by the DesignBais public login form DBIGLOBAL_D21. |
| 8.6.0.1 | Check that @PARENT is in HTML (8*674) | @PARENT included in the data of an OFR was getting converted to the id string. This has been fixed. |
| 8.6.0.1 | Break Row in OFR text (8*675) | '@':'BR':'@' embedded in the text for an OFR cell will be converted to the HTML <br> after any HTML encoding.<br>This allows strings such as <input> to be displayed using the HTML encoded text string <input> but provides a mechanism to insert new lines. |
| 8.6.0.1 | Selection Process (8*676) | Row select is now possible for selections flagged with 'Keys not on File'. |
| 8.6.0.1 | Auto Focus on Account Change (8*677) | Auto Focus was in some cases causing javascript undefined errors on change of account. This has been fixed. It was caused by a timing issue that caused DesignBais to attempt to set focus before arriving in the new account. |
| 8.6.0.1 | Login Form (8*678) | The default login form provided by DesignBais (DBIGLOBAL_D20 or D21) was leaving DBSTORE(1) set with flags used to control the form.<br>DBSTORE(1) is now cleared following a successful log on. |

| | | |
|---|---|---|
| 8.6.0.1 | BEFORE DISPLAY (8*679) | The BEFORE DISPLAY event is called twice in DesignBais. Once before the COMMON snapshot was restored to enable PROCESS.STACK to work and once as the form is built. |
| | | DesignBais now traps all event calls and stops the duplicate calls. However the duplicate BEFORE DISPLAY call has been utilised in some applications. Set PROCESS.EVENT = 'NOREPEAT BEFORE DISPLAY' at the end of your BEFORE DISPLAY prc logic in order to stop the routine from being called second time. |
| 8.6.0.1 | Update CSS.VERSION on DBIGLOBAL (8*680) | When a style is updated the CSS.VERSION is incremented and used to force a browser refresh to pick up the updated css files. |
| 8.6.0.1 | Error encountered when adding a radio button to a new RD form (8*681) | Responsive Design Form Data Link function: The routine DBI.I.DBIFORMS has been fixed to overcome an endless loop caused when the first field to be added to a new RD linked form is a radio button. |
| 8.6.0.1 | Unassigned Variable DBI.G.FOOTERMNET (8*682) | A Google Authentication variable not assigned error has been fixed. |
| 8.6.0.1 | Account Selection form initial focus (8*683) | When running the Account Selection form initial focus is placed on the dropdown account name selection field. |
| 8.6.0.1 | Account selection from the on-form report now triggers the Go button (8*684) | Selecting an account from the list of accounts now triggers the change of account without having to click the Go button. This is different behaviour to selecting from the dropdown where it is necessary to click the Go button. |
| 8.6.0.1 | IERR.TEXT and DBDS as Dialog Box (8*685) | Use DBORIG.EVENTSOURCE for IERR.TEXT or DBDS in dialog box. When IERR.TEXT or DBDS is set as a dialog box in the Style Group, DesignBais will use the DBORIG.EVENTSOURCE (the element that triggered the database hit) to position the message box. |
| 8.6.0.1 | Multi-Fields option in Forms Designer (8*686) | The Display Class can now be set using the Multi-Fields option. |
| 8.6.0.1 | Clear user's failed login attempts count (8*687) | The failed login attempts count on the user record is cleared following a successful login. The user email address field can contain semicolon separated addresses and the forget password address can match any of these. |
| 8.6.0.1 | Report Break Section (8*688) | The break sections were overlapping the detail section. This has been fixed. |

| 8.6.0.1 | Upgrade 35 amendment (8*689) | Upgrade 35 prior to DesignBais Release 8.6.0.1 amended all selection processes to remove page control buttons and install compact page controls in the footer of the on-form report. |
|---|---|---|
| | | With Release 8.6.0.1 an additional function also runs. If the selection performed on load is checked, or if there are no selection fields, then the search button normally located at the top of the search form is suppressed. |
| | | This permits the Refine button to be flagged as the button action to be performed when enter is pressed. |
| | | The 'Run?' column on the DesignBais Upgrade Routines form has been moved to precede the 'Description' column making it adjacent to the 'Run Type' column. This makes it easier to select the options you wish to run. |
| 8.6.0.1 | Selection Process Search Button (8*690) | The Search button (B.SEARCHDESIGNBAIS) is now only included if there are selection entry points i.e. NUMBER.OF.REAL.ENTRY.POINTS > 0. |
| 8.6.0.1 | MVON# Compile Messages in Code Editor (8*691) | Retain and display the full text generated by the BASIC and CATALOG commands for MVON# in the 'COMPILE' function. MVON# now separated from UNIVERSE. |
| | | Note that a failed compile will recatalog any existing object for the routine. |
| 8.6.0.1 | Global Forms Designer Defaults (8*692) | Forms Designer Defaults can now be set at the global level. |
| | | Defaults are set by the form style group record if present, they are inherited from the System Parameters if present, and then from the Global Parameters. |
| | | Each individual default is inherited from the next level if not set. |
| | | The defaults are held on a record with id FORMSDESIGNERDEFAULT on both DBIGLOBAL and on DBIPARMS. |
| | | Form element defaults are stored for Type (Input, Output, Button etc), Style (Label, Label Bold, User Style etc), Col span and Row span. Button defaults are stored for button attributes: Name, Text, Class, Colspan, Rowspan, Process After, After Parameter, Section. |
| 8.6.0.1 | SCREENROOT in XML Header (8*693) | The screenRoot attribute is now encoded in order to cater for form names containing the ampersand character (&). |

| 8.6.0.1 | Report Page Breaks in Report Designer (8*694) | In ADD.PAGE.BREAK we now reset the AREA.OF.INFLUENCE variable after a page break in normal mode. If, after a page break, there is more data in a field then display should start at the top of the detail section rather than in the position that was used to display the start of the data field. |
|---------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8.6.0.1 | Enter Key in Search Form (8*695) | Clicking the Enter key in a search form was not invoking the button action to occur when enter is pressed. This has been fixed. |
| 8.6.0.1 | Digest password option (8*696) | There is a new 'Use Digested Passwords' option on the Global Login Parameters. This can be set to force user passwords to be hashed using a SHA-1 algorithm.<br>At the point of turning on this global parameter the system will automatically run Upgrade Routine 36. This hashes all user passwords, both current and historical, where the user is not already using hashed passwords.<br>This action cannot be reversed. If a decision is made to return to encrypted passwords then the flag can be turned off but users will be forced to follow the 'Forgot Password' procedure and use a temporary password to login and then change their password. |
| 8.6.0.1 | Email Report to Others (8*697) | There is a new option in report preview actions list to allow a report to be emailed to a set of email addresses. |
| 8.6.0.1 | Large Attachments in DBMail (8*698) | Email systems do not allow large attachements. If a large attachment is detected while converting a report to a PDF then it will be sent as a download link. |
| 8.6.0.1 | Account Selection (8*699) | The variable containing the subroutine to run is multivalued. The subroutine associated with the selected account is now executed. |
| 8.6.0.1 | Email From Addresses (8*700) | The presence of multiple email addresses separated by ';' in the DesignBais Users record caused problems when used in the EMAIL.FROM slot. This has been fixed. |
| 8.6.0.1 | End of Period PDF Conversions (8*701) | Remove '.' from SESSION.ID when creating file names for PDF conversion.<br>New options for emailing reports automatically during EOP.<br>Add 'DRAWER|' prefix if not supplied by the developer in DBI.G.EMAILREPORT. |
| 8.6.0.1 | Clean Data File tool (8*702) | The Clean Data File tool is located in the Upgrade/Migration Tools side menu. It provides a method of cleaning data, email addresses for example, on a file so that application testing using the file can be undertaken without the risk of inadvertently sending emails to actual recipients. |
| 8.6.0.1 | Field Property Advanced Copy (8*703) | There is a new option to use, or not use, the file equates prefix in the field property name and base dictionary name of the fields being added to the target file.<br>The Equate Name of the new field does still contain the file equates prefix regardless of the setting of the new flag. |

| 8.6.0.1 | Google Address Lookup in classic DesignBais forms (8*704) | Classic DesignBais forms can now use the Google geolocation feature. The Google Address onchange event is handled by the web component file ajxw3c.js Therefore for fields with the custom attribute: geoloc='true' address='' the following string is not required: onchange='vs(event)' |
| --- | --- | --- |

**Fixes and Enhancements in Release 8.5.1.6**

**Change to db.config**

The db.config file must now contain a <setup> node even if there is no content. If this node is not found DesignBais will not run and an error will be recorded in the debug.txt log stating that the //setup configuration section cannot be found:

```
ERROR DETAILS:=========================================
System.ApplicationException: Configuration section not found. //setup
   at DesignBaisNET.dbError.raiseErr(Int64 inCode, String addMore)
```

If the <setup> node does not exist then add:
to your db.config file.

**Forms Designer Defaults**

In this release 8.5.1.6 there is a very useful option to allow file and field name dropdown selection lists to be hidden in forms designer. This overcomes a problem that becomes apparent when building forms based on a file that has a very large number of field properties. The time taken to render a DesignBais forms designer form such *Add Field* can be prohibitively long if the file has hundreds of field properties, or more.

Refer to the DesignBais Tools side menu option *System Parameters → Designer Defaults*

Designer Defaults
                Use this form to enter default values for use in Forms Designer.
                From Release 8.3.3.6 the Forms Designer tool allows form elements to be sized based on the
                styles defined in the style group designated for the form.
                These default style, column span, row span and input spacing values are used when the form
                element style does not define a default value. If these default values are blank then Forms
                Designer uses the traditional defaults that used to be hard-coded within the DesignBais
                engine.

**Designer Default Style Group**

Set the name of the Style Group that is to be used as the default for new forms in the Forms Designer tool. If set to *Inherit* then the value set in General Global Parameters will be used.

**Default System Button Properties**

This option allows the developer to define a set of buttons that are commonly required on forms. These defaults are available to all accounts that share the System Parameters held on DBIPARMS. A similar set of defaults can be defined for each Style Group. Developers using Forms Designer can access both these sets of default buttons. A default button can be selected, the properties amended as required, and then added to a form.

From Release 8.5.1.6 the following default options are available:

**File Name Selection**

In Forms Designer the *File Name* field can be selected from a dropdown selection list, as well as from a *File Name* selection process. On systems with a large number of files the creation of the dropdown list can impact the time it takes to render the DesignBais tools form.

To overcome this delay developers can now choose to hide the File Name dropdown selection list.

### Field Name Selection

In Forms Designer the *Field Name* field can be selected from a dropdown selection list, as well as from a *Field Name* selection process. If a file has a large number of field properties the creation of the dropdown list can impact the time it takes to render the DesignBais tools form.

To overcome this delay developers can now choose to hide the Field Name dropdown selection list.

### Always Hide Field Name Dropdown

This option is provided for developers who wish to retain the Field Name dropdown selection list for most files but need to hide this dropdown for particular files. Enter the name of files that have a particularly large number of field properties. Forms designer will hide the field name dropdown list for forms based on any of the files listed in this field.

**Changes to Global Login Parameters**

Refer to the DesignBais Tools side menu option *Global Parameters* → *Global Login Parameters*

There is a new option to force user passwords to contain numeric characters.

The failed Password Format Message can now be customized by the developer, or hidden altogether.

## Global User Default Login Parameters

| | |
|---|---|
| Login Image | db/dbLogo.jpg |

| | | |
|---|---|---|
| Minimum Password Length | 4 | **Messsage to Display for Failed Password Format** |
| Mixed Case Mandatory | ☑ | Site passwords must contain at least:<br><ul><li>1 upper case character</li><br><li>1 lower case character</li><br><li>1 number</li><br><li>1 special character</li></ul><br>Thems the rules! |
| Numeric Character Required | ☑ | |
| Special Character Required | ☑ | |
| Password History Check | 5 | |
| Failed Login Attempts Allowed | 10 | |
| Failed Login Attempt Delay | 1 | ◉ Display the default DesignBais message |
| Include Help Button | ☐ | ○ Display the custom message |
| | | ○ Do not display any message |

| | | | |
|---|---|---|---|
| Allow Email of Temporary Password | ☑ | Email From Address | bob2@bais.com.au |
| Temporary Password Use Within | 120 minutes | | |

**Public Users with Login Form**
- canb

| | |
|---|---|
| Default Login Screen Heading | DesignBais Security |
| Login Screen Description | The server requires a username and password |
| Subroutine to Call Before Login | |

| | |
|---|---|
| Session Timeout | 1,200 |
| Timeout Action | New Session ▾ |
| Timeout Message | Yes ▾ |
| Hit Blocker Mode | 0 Element not disabled. Subsequent events are sent. ▾ |
| Show Popup Calendar | -- Default -- ▾ |
| Suppress Focus | No ▾ |
| Asynchronous Mode | Yes ▾ |
| Auto Logon | No ▾ |
| Secure Uploads Folder | Yes ▾ |

Submit

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**Changes to DBREPORT.UPDATE**

Since the release of DesignBais Version 7 and 8 the DBREPORT.UPDATE functioned differently to Version 6.

When invoking a modal form DBREPORT.UPDATE needed to be applied in the MODAL RETURN event in order to avoid "undefined" javascript errors. This has now been changed.

From this release 8.5.1.6 DBREPORT.UPDATE will behave as it used to in Version 6.
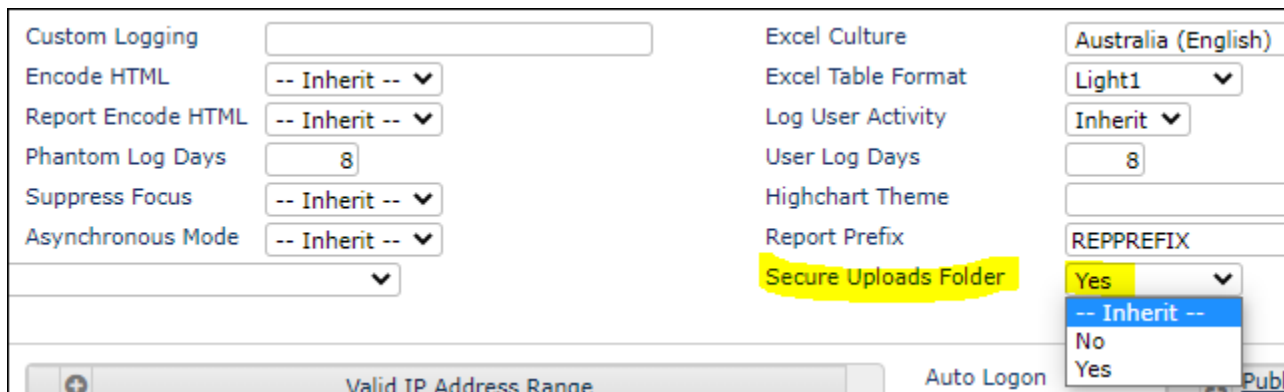
DBREPORT.UPDATE will now be applied to the lower form, such as the base form, when moving to a modal form. This means that PROCESS.STACK to a modal (or ~M or ~L) form from a REPORT click event will not interfere with DBREPORT.UPDATE settings. This overcomes the requirement to apply DBREPORT.UPDATE in the modal return event.

**User Authentication – Uploads Access**

There is a new option in Global and System Parameters called *Secure Uploads Folder*.
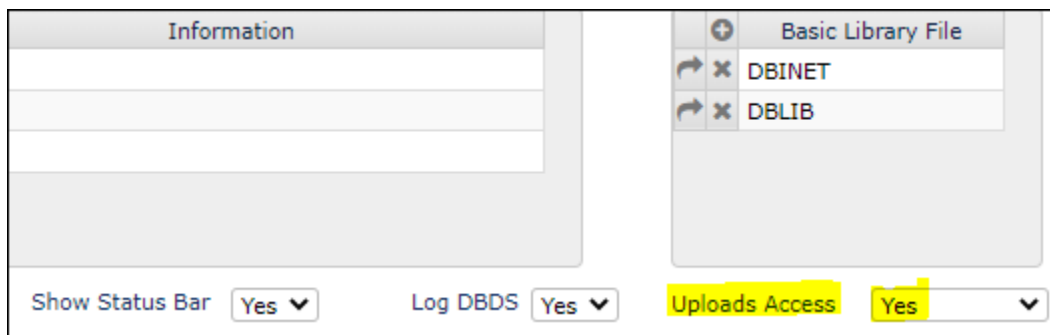
This introduces the concept of *authenticated users*. Only authenticated users are able to access the website *uploads* folder. This is the folder used by DesignBais to hold files and reports that a user uploads to the website.

For security reasons access to this folder is now dependent on a user being authenticated.



The snip above shows the System Parameters setting. The *Inherit* option allows this setting to be inherited from the global parameter setting.

For developers it is now necessary to set the *Uploads Access* flag in User Maintenance to *Yes* in order to allow PDF reports to be created, and to allow reports to be converted to excel.



If the Secure Uploads feature has been switched on in System or Global Parameters then a user will have access to the web site u*ploads* folder only if:
- The user login is via a form that utilises DBALTUSER to change the WEBLOGON
- The application login form sets SESSION.REC<DBISS.AUTHENTICATED> = Y
- The user is granted access individually via the *Uploads Access* flag in User Maintenance

A user can be denied access individually by setting the *Uploads Access* flag in User Maintenance to *No*.

**Fixes and Enhancements Release 8.5.1.6**

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.5.1.6 | Form DBICHK_A14 Create Release (8*597) | The release number was being lost when calling form A14 since variables were passed via DBWORK. Form A14 used to be a subform. This was changed in an earlier release causing DBWORK to no longer be populated. Variables are now passed via DBSTORE(99). |
| 8.5.1.6 | OFR Fine Tuning (8*599) | Scaling of columns to get around cross-browser differences left a gap between the vertical scrollbar and the data of an OFR. OFR logic in the database now sets the divX (header element) max-width, all <td>s get box-sizing:border-box + min-width + max-width in both header and data tables. Similar logic in the javascript has been removed. The header div now inherits the right-hand border from the report container. This is intended to continue the border from the data. |
| 8.5.1.6 | Changes to login password requirements (8*600) | There is a new option to force passwords to contain at least one numeric character. The password fail message has been re-formatted. The password fail message can now be suppressed, or a custom-defined message can be displayed. |
| 8.5.1.6 | DBREPORT.UPDATE (8*601) | DBREPORT.UPDATE will now be applied to the lower form when moving to a new modal form. This means that PROCESS.STACK to a modal (or ~M or ~L) form from a REPORT click event will not interfere with DBREPORT.UPDATE settings. This overcomes the requirement to apply DBREPORT.UPDATE in the modal return event. |
| 8.5.1.6 | OFR Real Width Flag (8*602) | Actual widths for OFR cells may be specified by prefixing the first column width with 'A'. This was not stored in the '\|OW\|' sessions record which meant that it was lost during OFR paging. Now fixed. |

| 8.5.1.6 | Return to Field for Dates (8*603) | Buttons and Images may invoke a date lookup and when they do the Return to Field must be a date field.<br>In Forms Designer a validation has been added when the Submit button is clicked to update the button or image properties. This ensures that a date field is specified as the Return to Field. |
|---|---|---|
| 8.5.1.6 | MV Grid with Select as Last Input (8*604) | In the final column of a multivalue grid form element that contains a dropdown selection list, the change event will now fire when the dropdown is changed rather than after tabbing out of the field. |
| 8.5.1.6 | Selection Process Refinement Operators (8*605) | There is a new option on the Selection Process called Refinement Operators. When checked the Refine Search fields will allow a selection from a dropdown list that specifies how to apply the refine search string. The dropdown list is:<br>Contains<br>Starts With<br>Ends With<br>Equal<br>Minimum<br>Maximum<br>This provides the ability to define whether the search string is at the start or end of the field text, or merely is contained in the field text, or whether there must be an exact match. The minimum and maximum option are most useful for numeric fields by allowing the user to specify selection of values greater than or equal (minimum) or less than of equal (maximum). |

| 8.5.1.6 | Selection Field Focus (8*606) | When a Selection Process runs field focus will be set in the following order:<br>- first INPUT field for search criteria<br>- Select Row for keyboard driven searches<br>- first Refinement input field<br>- page control go to page<br>This mean, for example, that for selections with no search criteria fields and no<br>refinement fields, focus will be on the go to page control field. |
|---|---|---|
| 8.5.1.6 | MultiSelection Select All & Clear All Buttons (8*607) | There are two new buttons on a selection process that allows multi-selection. These allow all displayed items to be selected, or cleared. |
| 8.5.1.6 | Selection Key Field (8*608) | If the first display column of a Selection Process was not flagged to return the key then it was picking up the key of the previous record. This has been fixed. |
| 8.5.1.6 | Authentication Flag for Uploads Security (8*609) | As an extra security measure there is now a cookie to verify that a user is authenticated.<br>For application logins that use DBALTUSER (such as via the DesignBais login in form) then, once a user's credentials are verified, DesignBais will automatically set the cookie thus defining the user as authenticated.<br>For other logon verification forms the developer can set SESSION.REC<DBISS.AUTHENTICATION,1> = 'Y' to flag the user as authenticated. The equated attribute in this assignment is <75,1>.<br>DesignBais will then set <75,2> and <75,3> to the date and time sent to the web.<br>Developers can also use the DBI.G.AJXCMD('AUTH','Y') |
| 8.5.1.6 | DesignBais Upgrade Routines (8*610) | Up to now the Upgrade Routines form had to be re-selected from the menu following each run in order to initiate another run.<br>This has been changed. Now, after a run of selected options, the form will re-display with all the selected options still selected. You can therefore re-run in Update mode without the need to re-select all the options. |

| 8.5.1.6 | Dropdown Refresh (8*611) | Dropdown lists were being updated even when they had not changed. Issue fixed. |
|---|---|---|
| 8.5.1.6 | Selection Process Header Row Height (8*612) | The Selection Process OFR header row will always be set high enough to display the column header text. Unfortunately, if the number of lines of text is higher than the height calculated from the Report Header style, the data rows per page was not being calculated correctly. To over come this a Header Height may now be entered on a Selection Process. This became obvious when the header text wrapped to 3 rows or more and a vertical scrollbar was needed to bring the last row into view. |
| 8.5.1.6 | Radio Button Returned Data (8*613) | Radio buttons were being returned on every hit. They are now only returned when they change. |
| 8.5.1.6 | Preview Reports DBIPARMS M31 (8*614) | The Actions dropdown list has been adjusted. If the new feature 'Secure Uploads Folder' has been activated then the following options will only be available to authenticated users: - Print - Convert to PDF - Print/PDF Pages(s) - Email Report to Self You must also be authenticated to convert to XLS. The 'Email Report to self' is also available if dbMail is active but an email address must also exist. |
| 8.5.1.6 | On-form Report Page Forward One Row (8*615) | Paging forward by one row now puts the new row into view. |

**Fixes and Enhancements Release 8.5.1.5**
After loading DesignBais Release 8.5.1.5 you will need to carry out several steps in each of your websites.

Run the Upgrade Routine 38 - Move FONT* records from DBIPARMS to DBISTYLE (post Release 8.5.1.3)

Font items hold calculated character height and width for all style fonts and have been stored in DBIPARMS since their inception. DBIPARMS is usually local to each data account.

Some systems have many data accounts which means that the Set Style Heights process would need to be run in every data account.

DBISTYLE is a better location since it is usually a global file.

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.5.1.5 | Focus after selecting from the side menu (8*422) | When selecting an option form the tools side menu the first field on the selected form does not always gain focus. After re-selecting the same menu option the first form field does then gain focus as it should. This has been fixed (prior to 8.5.1.3). |
| 8.5.1.5 | Select Form Input Widths (8*440) | If the style applied to the Selection Process form changed the nominated field then the display width was ignored. This has been fixed. |
| 8.5.1.5 | New Ajax Command RCA - removeCustomAttribute (8*578) | CA - allows adding of a custom attribute<br><br>RCA - allows removal<br>See DBI.G.AJXCMD in the manual. |
| 8.5.1.5 | Workflow Email Field attribute error (8*583) | A bug has been fixed in the code that extracts the attribute number from a field property that uses a group extract function. If the group extract is of the form: TRANS(target_filename,@RECORD<1>,25,'X') then the target file attribute value of 1 was being assigned to the source file attribute value, which should have been 25. |
| 8.5.1.5 | Extended Audit Dictionary Items (8*584) | Dictionaries for the chosen 'Extended Audit Key Separator' and 'Include Account in Audit Key' will not be in the DesignBais release files.<br><br>These dictionaries are now created at runtime by the routines that require these fields. |
| 8.5.1.5 | Read Handling (8*585) | Child reads need to be triggered following any read.<br>Due to an error the list of read groups yet to process was including completed reads.<br>The symptom was that a read, and its associated after-read process, was occurring twice.<br>This has been fixed. |
| 8.5.1.5 | Move FONT Items from DBIPARMS to DBISTYLE (8*586) | Font items hold calculated character height and width for all style fonts and have been stored in DBIPARMS since their inception. DBIPARMS is usually local to each data account. Some systems have many data accounts which means that the Set Style Heights process would need to be run in every data account. DBISTYLE is a better location since it is usually a global file. |

| 8.5.1.5 | Crash After PROCESS.STACK (8*587) | Under a combination of factors the call to the BUILD.XML.FOOTER routine caused a crash as the XML produced had a node termination marker in the incorrect location.<br>BUILD.XML.FOOTER is now called after SETUP.GETSCREEN as the BUILD.ACTION.ONLY and BUILD.RETURN.DETAIL calls are followed by BUILD.XML.FOOTER. |
|---|---|---|
| 8.5.1.5 | AFTER DISPLAY Called Twice (8*588) | Under some conditions AFTER DISPLAY was being called twice for the same screen - this has been fixed.<br>The BEFORE SCREEN and GET SCREEN events were also added to the items checked to prevent double processing. |
| 8.5.1.5 | Subroutine to Invoke before Screen (8*589) | The menu function 'Subroutine to Invoke before Screen' was being invoked before screens that were processed stacked which can cause issues.<br>It will now only be invoked after a menu option is clicked. |
| 8.5.1.5 | NLS Text Length Calculation (8*591) | The length of text fields is no longer calculated character by character for UniVerse in NLS mode. |
| 8.5.1.5 | Forms Designer File Name and Field Name dropdowns now optional (8*592) | The default behaviour in Forms Designer is now to not display dropdown selection lists for file name and field name.<br>A checkbox has been added to allow the developer to override the default and build the dropdown lists.<br>A File and Field Name selection is now available by clicking the File Name or Field Name hyperlink.<br>In Release 8.5.1.5 this applies to form RD150. Other forms will be modified in the next release. |
| 8.5.1.5 | HighChart (8*593) | The javascript encoding of text fields now, additionally, encodes single quotes. |
| 8.5.1.5 | OFR Page Controls (8*594) | When sections or fields are moved at runtime then any REPORTs with page controls needs the page controls moved by the correct PAGE.CONTROL.HEIGHT derived from the form style group, rather than using the original fixed adjustment of 18px. |
| 8.5.1.5 | Images & Date Picker (8*595) | Image elements with an after process of DBIPARMS_CALENDAR will now invoke the javascript datepicker. |

| 8.5.1.5 | Selection Process (8*596) | Only include Search button if needed: <br> - when there are selection options <br> - when the selection is not performed on load |
|---|---|---|

**Fixes and Enhancements Release 8.5.1.1**

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.5.1.1 | MV Control Body Height (8*489) | After adding a footer to allow the 'Add' button to be located below the grid the body <br> height needed to be adjusted to allow for the borders at the top and bottom of the grid. |
| 8.5.1.1 | OFR Report Body Cell Style (8*490) | The wrong variable was being set when the Report Body Cell Style was read from <br> DBISYSFORMS. It was correct when a local style was available. |
| 8.5.1.1 | Purge Process (8*491) | &PH& should not be purged by DATE as application data may be output in a PHANTOM |
| 8.5.1.1 | Dialog Box Styling (8*492) | Dialog Boxes produced by DBI.G.DIALOG may now be styled. |
| 8.5.1.1 | Account Selection (8*493) | Reset AMAX from ACCOUNTS found in R.ACCOUNTS report. After refining the list empty rows <br> were displayed. <br> Button moved above the Refine fields. |
| 8.5.1.1 | Code Editor form File Name and Item Name dropdown selections (8*494) | The File Name and Item Name dropdown selections are no longer built in the after display <br> event. The user can use a checkbox to trigger the display of dropdown lists. This change <br> is to prevent a delay on entering the form caused by excessively long file or item name <br> lists. |
| 8.5.1.1 | Anchor Tags (8*495) | Anchor Tags have been amended to remove href='#' and javascript.void() and will now not <br> display in the bottom left of the browser. <br> <CTRL>+click in Designer no longer opens a separate browser tab in FireFox. |
| 8.5.1.1 | Global Login Form 2 Factor Authentication change (8*496) | The DBIGLOBAL_D20 form has been amended so that the Google Authentication Register button <br> is hidden unless Google Authentication is active in the user start account. |
| 8.5.1.1 | HighCharts Height Error (8*497) | Missing ';' in the in-style settings caused the height not top be set. |
| 8.5.1.1 | MultiFields Z-Index Added (8*498) | Field Z-Index can now be updated for a set of fields |

| 8.5.1.1 | Check Read Groups (8*499) | The Check Read Groups button has been added to the header row of both Forms and Report Designer. This allows the developer to enter a set of form names and/or file names. All read group details from these forms, or from all forms for the file name, are displayed. This allows the developer to check that there are no read group clashes. |
|---|---|---|
| 8.5.1.1 | DBPASS.DBVALUE to Radio Button (8*500) | DBPASS.DBVALUE was failing to pass a value to a Radio Button field. This has been fixed. |
| 8.5.1.1 | Google 2 Factor Authentication (8*501) | Google 2 Factor Authentication has been amended to use the settings from the user's start account rather than from the login account. In some cases the Register button was presenting a QR code that was invalid. This occurred when the Google settings were not present in the global file but authorisation was active based on settings in the start account System Parameters. |
| 8.5.1.1 | New jquery Functions jqss & jqra (8*502) | Added to DBI.G.AJXCMD: |
| 8.5.1.1 | Write Issues (8*503) | V8 bought into line with V6: |
| 8.5.1.1 | Dialog Box Not to Display when IERR.TEXT set (8*504) | Mainly to hide the 'Write Confirmation' dialog box when IERR.TEXT set in the After Process of the update button. |
| 8.5.1.1 | Rebuild MV After Write (8*505) | MV fields were not cleared after a WRITE & clear of details if IERR.TEXT was set in the After Display of the update button. |
| 8.5.1.1 | Menu Option 'Subroutine on Main form Close ('X' button)' (8*506) | This now works when tabs are closed via the X. |
| 8.5.1.1 | Query String Unescaping (8*507) | Only a handful of characters were previously unescaped. All escaped characters are now converted. |
| 8.5.1.1 | DesignBais Backup file processed in nightly purge. (8*508) | The DesignBais nightly purge, triggered by the first login of the day, now processes the Designbais Backup file DBIBACKUP. |
| 8.5.1.1 | MV Read Errors (8*509) | DBX.LOWER.READ applied to clearing records after a read error i.e. only the attribute of the read error will be cleared rather than all records previously read. |

| 8.5.1.1 | MV Refresh after a Read Error (8*510) | The MV grids were clearing after a read error - fixed. |
|---------|---------------------------------------|--------------------------------------------------------|
| 8.5.1.1 | D3 Exclusive Locks (8*511) | CASE NOT(DBLOCKED) changed for D3 to CASE DBLOCKED = '' OR DBLOCKED = '0' |
| 8.5.1.1 | Forms Designer Add Field (8*512) | When adding fields the logic to move the area of the canvas last accessed into view has been adjusted. |
| 8.5.1.1 | Field Copy (8*513) | D15 Field Copy validation reviewed |
| 8.5.1.1 | Checklist Page Number allocation (8*514) | The New Checklist button on form DBICHK_A10 now uses a parameter on the DBIGLOBAL file to hold the next checklist number, which must be numeric, or have a numeric suffix. |
| 8.5.1.1 | Sorting the Backup Item List (8*515) | The Backup Settings in System Parameters now allow the Files to backup and the Excluded from Backup lists to be sorted by clicking on the header row of the grid. |
| 8.5.1.1 | Checklist Transfer File path (8*516) | Developers can now specify the Checklist Transfer File into which checklist transfer files are written. Previously only the DBLIB file could be used. The specified path can contain the string '%account' which will be replaced with the account name at run time. |
| 8.5.1.1 | Textarea Delimiter (8*517) | The Web component is now returning: amp:hash:x:A:; in textarea fields. This is converted to SVM. It needs to be VM or SVM depending on field properties. |
| 8.5.1.1 | Responsive Design Meta Data (8*518) | Separate RD parameters for CSS, meta and javascript links to be added to all pages in a site, all sites in the current account or all sites in all accounts (Global option). Meta data can still be added to the Responsive Design res folder on the web site for an individual page. |
| 8.5.1.1 | Check for DBI items in DBI files (8*519) | DesignBais tools are released in DBISYS files. The presence of DBI type items in local DBI files will cause problems. This form displays items with names commencing with DBI that exist in local DBI files. |
| 8.5.1.1 | Body Meta Elements (8*520) | You can now load meta elements into the start of the <body> tag of the HTML for standard DesignBais forms. System Parameters overwrites Global entry. Only loaded when the first form is initialised. |

| 8.5.1.1 | Responsive Design Footers (8*521) | The HTML extracted when publishing a footer was incorrect.<br><br>The <footer> node includes another <footer> node which means that we need to pick up<br>everything before the second <footer> rather than the first.<br>This left the footer XML unterminated.<br><br>The fix is to re-publish any footer pages. |
|---------|-----------------------------------|----------------------------------------------------------------------------------------|
| 8.5.1.1 | Report Loading (8*522) | The new spinner with text now replaces the 'Loading...' progress bar. |
| 8.5.1.1 | Recent List Added to Favourites (8*523) | Forms access from favourites are now added to the recent items list.<br><br>Menu options run will also be included in the Favourites Recent list. |
| 8.5.1.1 | Model and Layered Forms on Menus (8*524) | Add INDEX(EVENTSOURCE,'menuz',1)=0 to prevent hiding MV Grid after a menu option with ~L<br>is clicked |
| 8.5.1.1 | Save report to cabinet (8*525) | The auto purge days setting from the cabinet is now loaded as the default when saving a<br>report to a cabinet drawer in form DBIPARMS_M33.<br>Only one of the auto purge options can be entered - either auto purge date or auto purge<br>days.<br>There is now an option to cancel a report in the Actions dropdown list. |
| 8.5.1.1 | Failed Read Section Controls (8*526) | Set DBX.BUILD.UPDATE.SCREEN = 1 after a failed read to force reset of section control<br>variables in DBX.CHANGED.SECTION.LIST (in DBI.G.DETAILNET) |
| 8.5.1.1 | Hit Blocker Changed (8*527) | Fields are now disabled rather than hidden.<br>Opts 6 & 7 deprecated. |
| 8.5.1.1 | Dropdown HTML Encoding (8*528) | Dropdown descriptions were automatically HTML encoded.<br>HTML encoding may now be switched off for dropdown select lists. |
| 8.5.1.1 | CSS Links (8*529) | type='text/css' added to a few links where it was not included |
| 8.5.1.1 | System and Global Parameters Menus (8*530) | The System and Global Parameters side menus have been extended to include all options<br>that were previously available as buttons on the main parameters forms. This makes the<br>options more visible.<br>Note that the Admin, Meta Data and Google Authorisation options are only visible to a<br>user that is a member of the DBAdministrator User Group. |
| 8.5.1.1 | Awesome Font Icons in Forms Designer (8*531) | Add DBIFORMS_FA to add icon parameters to field text.<br><br>It has also been added to the Style Group MV Control form. |

| 8.5.1.1 | DesignBais Glossary bug fix (8*532) | When strings sent to update the DesignBais Glossary contained attribute marks these marks<br>were not being replaced with a space character. This lead to erroneous entries in the<br>glossary. The bug has been fixed.<br>DesignBais Upgrade Routine 25 has been amended to locate and fix the resultant errors<br>where possible. |
|---|---|---|
| 8.5.1.1 | PDF Conversion (8*533) | &lt;meta http-equiv='Content-Type' content='text/html; charset=utf-8'&gt; added to the HTML<br>output to enable conversion of UniCode characters. |
| 8.5.1.1 | Find and replace \n with space in DBIGLOSSARY base text (8*534) | Upgrade routine 25 has been amended to find and replace \n with space in DBIGLOSSARY<br>field DBIGL.BASE.MESSAGE. The \n string corresponds to an attribute mark in the text that<br>was added to the glossary, and should have been replaced at the time of creation of the<br>glossary entry.<br>Other encoded characters are also removed: \' replaced by ', \' replaced by '.<br>Attributes above 4, caused by program errors failing to remove attribute marks, are<br>removed. |
| 8.5.1.1 | Highcharts Destroy (8*535) | When rebuilding a chart the old version is now destroyed to prevent a build-up of old<br>charts in the Highcharts.charts array. |
| 8.5.1.1 | Highcharts Resize (8*536) | Highcharts may now be resized with DBRESIZEFIELD. The Highchart reflow() function is<br>utilised. |
| 8.5.1.1 | HighCharts Legend Options (8*537) | HAS.LEGEND.OPTIONS  = THIS.ATTR&lt;16,7&gt;<br>A comma separated string of options useful for options not already available for the<br>legend.<br>Use single quotes to surround text values, for example:<br>OUTPUT.AT&lt;16,7&gt; = 'width: 260, backgroundColor: '#FCFFC5'' |
| 8.5.1.1 | Report Designer Exit (8*538) | Derived field attributes may have mis-matched MV markers causing 'You have not saved all<br>your changes. Are you sure you wish to exit?' |

| 8.5.1.1 | HighCharts (8*539) | OUTPUT.ATTR<49> may now contain a full chart script including the data elements.<br>DesignBais will simply wrap the provided script in 'new Highcharts.Chart({' and close the<br>javascript with '})'.<br><br>OUTPUT.ATTR<45> and <46> may now contain any HighCharts top level elements. These are<br>added after other options and will hence override. DesignBais will add leading & trailing<br>brackets and or braces as required.<br><br>Chart click event added to the background section of the data. Event is HICHART,<br>eventsource is the chart name e.g. H.HICHART1 and  DBREPORT.CELL will be '-1.-1' to<br>distinguish it from a data column click.<br><br>Chart data will not be HTML encoded to allow labels to contain the simple HTML elements<br>supported by Highcharts. |
| 8.5.1.1 | Highcharts Theme (8*540) | Local Account Theme javascript now loaded on change of account. |
| 8.5.1.1 | Changes to Glossary Maintenance (8*541) | Glossary Maintenance has been changed to force the entry of a search text string as well<br>as the first letter of the text. This prevents DesignBais timeout when the selection<br>criterion returns a large number of glossary records. Small numbers of records can be<br>retreived without a search string but the text string will be mandatory if more than 500<br>records are selected. The message: 'Search Text String must be used to limit the size of<br>the result set' will be displayed.<br>If more than 800 records are selected then the following message: 'Try using a longer<br>Search Text to limit the size of the result set.' is displayed. |
| 8.5.1.1 | Multivalue Grid Rebuilds (8*542) | Fixed an issue causing MV grids containing dropdown lists from being rebuilt too often.<br><br>When a MV grid is rebuilt DesignBais did not always set the last field focused correctly.<br>A setTimeout is now added to the javascript so that the focus() happens after the<br>rebuild. |

| 8.5.1.1 | Form Background Calculation Refined (8*543) | The background height included an allowance for the status bar. This could lead to the form background extending below the footer.

Status bar is now only allowed for if the user has it turned on and if the form height extends past the browser height in DBSCREENPROPS.

The list of collapsed sections contained blank sub-values due to multiple section rules. These have been removed to allow correct calculation of the form height.

Do not disturb DBCOLLAPSELIST during after write from selection form. |
|---|---|---|
| 8.5.1.1 | Development Checklist changes (8*544) | The Development Checklist form has been revised. The main form has been changed to place most functions into Checklist and Page Actions dropdown selection lists. These functions were previously executed from a button or hyperlink. Form DBICHK*A14 is used to create a Checklist Transfer File. This form is no longer flagged as preserve common, sub-form. It is now called as a layered form. |
| 8.5.1.1 | Report Repeated Columns (8*545) | Repeated report columns will now appear in the Excel file.

Fields repeated in the break section will be displayed. |
| 8.5.1.1 | DesignBais Loader Style (8*546) | The 'dbais' styles are normally protected from maintenance but the DesignBais loader may now be styled.

In Style Maintenance enter dbaisloader in order to change the spinner size, text background color or font size.

Do not change the names of any included styles. If you break the spinner simply delete the DBISTYLE record dbaisloader and start fresh. |
| 8.5.1.1 | DBSCROLLREPORT Applies to Textarea (8*547) | Textarea fields may now also be scrolled using DBSCROLLREPORT.

Setting position to 'scrollHeight' now scrolls to bottom. |
| 8.5.1.1 | Maintain CSS Files (8*548) | There is now an option to add a style from the Style Definition file DBISTYLE |
| 8.5.1.1 | Initial Login Account and Form (8*549) | During the initial connection we now pick the user's first account & form rather than locate the connection account & form.

This works as we no longer start a fresh session on a change of account. |

| 8.5.1.1 | Remove or change body class as form loads. (8*550) | Remove or change body class as form loads to be sure that the new style group is applied. |
| --- | --- | --- |
| 8.5.1.1 | Menu Onload (8*552) | During the onload event the menus should be rebuilt and resized in the new account.<br><br>Mainly an issue when the form in the new account did not have menus. |
| 8.5.1.1 | Radio Button Focus (8*553) | The undefined error that displayed when IERR.TEXT and DBRETURN.TO.FIELD was set to a radio button, has been fixed.<br><br>A similar error when tabbing out of a MV grid to a radio button, has also been fixed. |
| 8.5.1.1 | Email Temporary Password (8*554) | User Maintenance has a new link Email Temporary Password in the Actions dropdown. Use this button to generate a temporary password for a user that has forgotten their password. Ensure that the user record has the correct email address for the user beforehand. The user will receive an email containing a randomly generated password which expires within a period specified in your Global Login Parameters (refer to the Temporary Password Use Within field). |
| 8.5.1.1 | Custom Attributes selection process (8*556) | There is now a selection process available when setting custom attributes in Forms Designer. This displays the custom attribute strings that are documented in the DesignBais Reference Manual. Developers may enter other custom attributes, not in the selection list dropdown, as required. |
| 8.5.1.1 | MVON# Editor (8*557) | MVON# EDITOR <sourceCode> extraction reverted to standard code - COUNT of a string now works and the original work around fails. |
| 8.5.1.1 | Images on Reports (8*558) | When using a load balancer the case of the web site matters. The web site path was converted to uppercase in order to avoid case issues when locating DBNET.ASPX in the WEBSERVER variable. Reverted to lowercase after the correct path for images is determined. |
| 8.5.1.1 | Bug fix Select Field Width (8*559) | The Entry Point Supplied 'Select Field Width' value was not being utilised due to a bug. Now fixed. |
| 8.5.1.1 | BEFORE DISPLAY (8*560) | The before display event will now only be called once. |

| 8.5.1.1 | RD File Uploads (8*561) | If rdSetAttribute is used to set the file upload properties then DesignBais will now verify the number of files and file extensions. If an error is detected then any uploaded files will be deleted as a security measure. This is in the new subroutine DBI.G.PGSUBMIT. |
|---|---|---|
| 8.5.1.1 | MV Mandatory Fields (8*562) | With the borders collapsed in a MV grid table we were only displaying borders with color #db8a8a on the even rows - not very definitive.<br><br>The borders are now colored the same as per the odd rows in the style dbaisInputMandatoryEven.<br><br>The MV column header for a mandatory field will have a <sup> *</sup> element added to indicate that the column is mandatory and the dbaisMVHeader style will color it red. |
| 8.5.1.1 | Report Image Aspect Ratio (8*563) | By default, Images on reports are resized to fit 100% of the width if the container is portrait or to fit 100% of the height if the image container is landscape. The maximum width and height are also set to limit the image to its container. This can lead to distortion unless all images have the same aspect ratio. The new 'Retain Image Aspect Ratio' will allow images to be restricted to the container size but displayed without distortion. This will mean that images may not fill the report container. This can be set for all images on the report or for Individual images. Inherit has been included to pick up a System wide setting. If no System Parameter than the default will be No to leave images unchanged. |
| 8.5.1.1 | OFR Page Controls (8*564) | Resize REPORT divZ if report is in DBRESIZEFIELD |
| 8.5.1.1 | Selection Process (8*565) | A new flag to indicate if the keys selected are not on file. DesignBais tried to read and evaluate display fields based on the selection file. This flag will allow the display of selected values that are not on a DesignBais file e.g. as a result of a QSELECT |
| 8.5.1.1 | File Linking by Selected Field (8*566) | This new option is available on the Upgrade/Migration Tools menu. It provides a method of linking two files based on a field that is common to both files. There is an option to create a cross-reference file. |

| 8.5.1.1 | Menu Include System Logo (8*567) | Traditionally menus have included the System Parameters logo by default. This new checkbox allows no image to be included on a menu. |
|---|---|---|
| 8.5.1.1 | Extended Audit bug fix (8*568) | The File Properties maintenance routine was incorrectly displaying the extended audit settings. This has been fixed. |
| 8.5.1.1 | Form Help display (8*569) | Form Help now displays buttons and hyperlinks as html elements. |
| 8.5.1.1 | Extended Audit (8*570) | The extended audit function now keeps a log of the date and user id when extended audit is turned on or off for any particular file. The log can be viewed from the File Properties form. |
| 8.5.1.1 | dbnofocus in Field HTML Attributes (8*571) | If you add a custom attribute dbnofocus (lowercase required) to a field then the field will be skipped during autofocus. |
| 8.5.1.1 | Global login parameters (8*572) | There is now a Global Login Parameter to control the display of the help button on the DesignBais Login form D21. This allows the system administrator to suppress the help button in the case where a login account is in use and help for Two Factor Authentication is not applicable to all user start accounts. |
| 8.5.1.2 | Single Quote in File Description (8*573) | During MV COMBO changes the javascript escaping was lost - reinstated. |
| 8.5.1.2 | OFR Refresh after Dialog Box (8*574) | Remove restriction for DIALOGRESPONSE_1 event - OFRs were not refreshed. |
| 8.5.1.2 | BAWEBEXEC Test Code Removed (8*575) | Line writing a 'JL' item on DBISESSIONS removed |
| 8.5.1.2 | Image Properties (8*576) | The report aspect ratio option was in the wrong section and hence displayed when an image was added to a form. This has been corrected. |
| 8.5.1.2 | New Common Variable DBLASTMVCELL (8*577) | This variable records the last grid field to receive focus via tab or button click. It has 4 attributes. DBLASTMVCELL <1> = association <2> = XML ID <3> = row <4> = column |

| 8.5.1.2 | Multi-lined Button Text (8*579) | The white-space:nowrap; in-line style on buttons has been removed to allow multiple lines of text. This can be re-applied by adding white-space:nowrap to your button style. |
|---|---|---|
| 8.5.1.3 | Custom Attribute dropdown selection (8*580) | In Forms Designer the dropdown selection list is generated from the DBIPARMS record CUSTOM.ATTRIBUTE. This item can be loaded from DBISYSFORMS using the Extract SYS File Records option on the tools menu. |
| 8.5.1.3 | IERR.TEXT & DBDS as Dialog (8*581) | Undefined javascript errors were occurring if the return to field was a multivalue. Dialog Boxes when returning to a MV grid field are now positioned under the first cell of the grid. |
| 8.5.1.3 | DBREPORT.UPDATE (8*582) | Now supports @PARENT and Awesome Fonts via ~fa syntax. |

**Fixes and Enhancements Release 8.4.1.1**

| Release | Description | Full Description |
|---|---|---|
| 8.4.1.1 | PDF Creation (3*17) | Is it possible to have a program run multiple DesignBais reports in the background and save them all as PDF'â€™s automatically? |
| 8.4.1.1 | Display number format (3*125) | Replaced by page 8*408 |
| 8.4.1.1 | SET.QPOINTER function in DBI.G.DBSPECIFICNET (8*409) | SET.QPOINTER file handle separator character for UniData and OnSystex set to @ because \| fails. The VOC entry for the qpointer is QP.FILENAME.SPEC\|sessionId for all other databases. |
| 8.4.1.1 | Purge Variables Unassigned (8*410) | Four lines in the subroutine DBI.P.DBIPURGENET had SESSION.REC which should be SESSIONS.REC. |
| 8.4.1.1 | rdDateFormat (8*411) | Was appearing at the end of the outbound XML string. Now inside ajax node. |
| 8.4.1.1 | Inactive User Message (8*412) | The inactive user message was being displayed on the first hit after the user had logged in. DBALTUSER is now checked during the login to prevent access. |
| 8.4.1.1 | Section Logic Javascript Error (8*413) | Do not attempt to reposition PHIDDEN fields as they are not sent to the browser and hence, will cause javascript errors. |
| 8.4.1.1 | Report Designer selection process where used list (8*415) | Report Designer now displays a list of reports that use the selection name assigned to the report being maintained. |
| 8.4.1.1 | Email Message Text (8*416) | Added line to the subroutine to convert subvalue marks: |
| 8.4.1.1 | Report Designer front screen Submit button (8*417) | The Report Designer now has a Submit button on the front screen, similar to the Forms Designer. This allows the developer to save the report without going into the grid. |
| 8.4.1.1 | Data Extract tool (8*418) | The DesignBais Tools menu now includes a new Data Extract option. This allows fields to be extracted from selected files into a csv or tab delimited file and sent via DBMail to email recipients. |
| 8.4.1.1 | System Parameters Forms Designer Default Properties (8*420) | Defaults properties for Forms Designer form elements can be set using the Designer Defaults button on the System Parameters form. |
| 8.4.1.1 | Responsive Design Account Change (8*421) | You can now set DBIACCOUNT in Responsive Design forms in order to change database accounts. You must remain in RD mode. |

| 8.4.1.1 | Dropdown List Item Not Displayed (8*423) | As part of the multiple select changes the dropdown list field value was always sent as the selected item. We no longer update the dropdown selected option(s) if the database value is not in the list. This lets the browser display the first option by default which was the behaviour prior to the multiple select changes. |
|---|---|---|
| 8.4.1.1 | Upgrade routine 15 amended (8*424) | Upgrade routine 15 has been amended to check for OUTPUT, as well as TEXT, fields in the header section of a report. This option checks that the OUTPUT field row span can be extended to the base of the header section without encountering another field. If another field lies within the extended row span then this is recorded in the upgrade log and flags that a manual change is required. Running this option in update mode will fix all occurrences recorded in the log that are not flagged for manual change. |
| 8.4.1.1 | File Uploads (8*425) | DesignBais no longer sets the max size if it is not set validly by the user in order to use web.config default. |
| 8.4.1.1 | Responsive Design Hidden Page Fields (8*426) | Section controls are not available in Responsive Design however, default field focus uses the field state to allow focus. A hidden section has been introduced for page hidden fields to stop the default focus from considering the hidden fields. |
| 8.4.1.1 | Login Form D20 and D21 (8*427) | The default text 'DesignBais Security' has been removed to allow no heading to be displayed. The heading may now also contain HTML. Additional spacing has been inserted above and below the Login Image. |
| 8.4.1.1 | Select Form Changes (8*428) | Use styles to calculate field sizes more accurately. Stop text fields from overlapping the inputs. The display report now allows for the header before calculating the number of rows to display in each page. |
| 8.4.1.1 | Phantom Process (8*429) | DesignBais now opens F.DBISESSIONS in DBI.P.CALLDBSUB |
| 8.4.1.1 | Two Pass Reports (8*431) | The page count is now reset for second pass to prevent 'Page 2 of 1' output in a summary only report. |

| 8.4.1.1 | Field Focus (8*433) | When setting focus the ORIGINAL.SCREENROOT was being used rather than the current SCREENROOT. This was not correct when using the top menu to run a form and focus was not set. |
|---|---|---|
| 8.4.1.1 | Style Group CSS (8*434) | Development intended to utilize individual Style Group CSS files abandoned. |
| 8.4.1.1 | NEXT.REPORT.NUMBER Moved to DBIGLOBAL (8*435) | Report Numbers assigned traditionally came from the main sessions file DBISESSIONS. This file is occasionally cleared which resets the report number control. which may result in one report overriding an earlier report or simply displaying the earlier report in the Report Progress Page. To avoid this scenario the NEXT.REPORT.NUMBER will be read from DBIGLOBAL if it exists. |
| 8.4.1.1 | Style Groups additional user definable styles (8*437) | A multivalued list of additional user definable styles is now available to complement the current group of 10 styles. |
| 8.4.1.1 | Database Component Reference Manual Menu Link (8*438) | The menu link now includes all 4 parts of the data component release number. |
| 8.4.1.1 | Select Forms Keyboard Search (8*439) | The Select Row label and input are now in a collapsing section to save space on the form. |
| 8.4.1.1 | On Form Report Page Controls (8*441) | The OFR page controls may now be styled. |
| 8.4.1.1 | User logging details display (8*442) | The User Logging form (DBIUSERS_D100) now includes columns for Log Activity (Inherit, Yes, No) and number of days to retain logging details. If the setting on DBIUSERS is set to inherit then the setting from DBIPARMS or DBIGLOBAL is displayed. |
| 8.4.1.1 | Select Forms Page Controls (8*443) | Select Forms now use the standard OFR page controls. |
| 8.4.1.1 | Backup access to View Record (8*444) | A View Record button on the Review Backup Content form allows access to the view record function to compare a backup item to the current item. |
| 8.4.1.1 | DERIVED Fields in MV Grid (8*445) | The logic to hide a MV grid if it has no content has been adjusted for derived field events which triggered the grid to be hidden. |
| 8.4.1.1 | Forms Designer col span calculation (8*446) | For output fields, on change of display class, only apply recalculated field width (col span) when this new width value exceeds the current width. |

| 8.4.1.1 | File Uploads (8*447) | UPLOADCOMPLETE event now allows &, ; and ' in file names. When passed to the database code the files are separated by SVM (sub-value marks) instead of the original ; (semi-colon) delimiter. |
|---|---|---|
| 8.4.1.1 | Text Area (8*448) | At some point the width of a textarea was reapplied when the number of columns was set to force a particulat width. Fixed |
| 8.4.1.1 | New Upgrade Option 35 to update page controls on selection forms (8*449) | This upgrade will update Selection Processes to replace the Previous, Next and Go to Page buttons with new compact page controls similar to those that display on On Form Reports. |
| 8.4.1.1 | DBMail Template changes (8*450) | Additonal fields have been added to the template maintenance form: Email Subject Email Format Name of Sender Email Address for Replies Domain Email Address Copy to List Blind Copy to List Form DBIPARMS_M32 amended to allow selection of a DBMail template. |
| 8.4.1.1 | HighCharts (8*451) | Additional options for Highcharts. For pie chart if HAS.LEGEND is set then showInLegend is set to true the default is false. You can position the Legend with: HAS.LEGEND.X = OUTPUT.ATTR(nn)<16,5> HAS.LEGEND.Y = OUTPUT.ATTR(nn)<16,6> For pie chart dataLabels HAS.DATALABELS = OUTPUT.ATTR(nn)<48> a value of 0=No, 1=Yes and text can be a list of pie dataLabels options. The HAS.LEGEND font options implemented (were available in v6 GRAPHs). The tooltip changed for pie charts to include the series name, data name, count count and percentage. HAS.PLOT.OPTS applied to pie charts. |
| 8.4.1.1 | MV Header Select Process (8*452) | Set focus on the correct MV using DBRETURN.TO.FIELD := '~|':DBMVCOUNT in SELECTION.RETURN for a MV field |

| 8.4.1.1 | Field Focus (8*453) | Field focus seems to have been affected by the jquery code for multiple selections.<br>Problem occurred when MV grid contained dropdown lists and a header selection process was<br>returning the value to the first row of the grid rather than the row where focus had been<br>attempted prior to the lookup.<br>Fixed by adding a setTimeout to the javascript focus command. |
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| 8.4.1.1 | Forms Designer changes (8*454) | Label Break text only with no text default to row span of 1; field name no longer cleared<br>after add to list in fast add field |
| 8.4.1.1 | Upgrade Routines (8*455) | Initialise the variable MSG in DBI.I.UPGRADE paragraph PHANTOM.RUN.SELECTED.OPTIONS  (QM<br>phantom fails to complete with error:  00009106: Unassigned variable 'MSG' at line 1989<br>of DBI.I.UPGRADE) |
| 8.4.1.1 | Check for Common Variables fix (8*456) | Form DBICHK_E10 Check for Common Variables now creates COM.COMMON.VAR.LIST on DBIPARMS if<br>not there already. Previously it was only present if the display common function has been<br>called form a form. |
| 8.4.1.1 | Form Hit statisitics (8*457) | The Active Users form now has a link to run Form Hit Reports, by Count and by File. These<br>reports provide counts of the number of times a form is accessed. |
| 8.4.1.1 | eXpress Reports (8*458) | When a field used in a report contained a valid input list with no null value then the<br>Field Properties form, displayed by clicking the report field column header, forced a<br>selection condition to be entered before other changes, such as a change to the column<br>width, could be saved. This has been fixed. |
| 8.4.1.1 | Account Selection Refine option (8*459) | The Account Selection form now displays a sorted list of accounts and a refine field. |
| 8.4.1.1 | Display of the recent list of forms accessed (8*460) | The recent list has been amended to not display forms that are not available in the<br>current account. |
| 8.4.1.1 | Fix to Upgrade Routine 26 (8*461) | Upgrade Routine 26 selects forms and adds 'datepicks' to the start of the field xml label<br>of input date fields. A fix has been made so that this upgrade does not apply this change<br>to Responsive Design forms. |
| 8.4.1.1 | RD DateFormat (8*462) | Date formats reworked for Safari and IE.<br>Set rdDateFormat at the start of the javascript commands. |

| 8.4.1.1 | Click Event on Process After (8*463) | The click event for a multivalued dropdown was not showing the previously selected data. |
|---------|------|------|
| 8.4.1.1 | MV Alignment Now Controlled by Styles (8*464) | MV grid field vertical alignment was hard-coded.<br>This has been changed to rely on the styles used. |
| 8.4.1.1 | User Log Reports (8*465) | A fix has been applied to reset the 0-6am and 9-12pm work variables in the REPORT READ<br>event processing. This corrects the reports which were showing large values in the first<br>and last columns of the reports. |
| 8.4.1.1 | Mobile Connection COMMON Variable (8*466) | A new COMMON variable DBMOBILE has been added to flag that the source device is a mobile<br>phone. |
| 8.4.1.1 | DBCALLURL ;mobileApp Option (8*467) | When ';mobileApp' is appended to DBCALLURL then DesignBais will return 'window.open('':DBCALLURL:'','_system','location=yes,enableViewportScale=yes,hidden=no');<br>' |
| 8.4.1.1 | DBCALLURL window.open (8*468) | DBCALLURL can now be of the format below, it gives full control over opening a browser<br>window:<br>window.open(URL, name, specs, replace)<br>e.g. DBCALLURL = 'window.open('http://designbais.com.au','myWindowID')' |
| 8.4.1.1 | Remote Cabinet Option in DBI.I.STARTPRINTNET (8*469) | The option was resetting DBEX.SESSION.ID which caused problems when invoked from a<br>Layered form (a form opened with ~L). Session variables were picking up the base level<br>values. Also caused 'Unable to load the build mv descriptors for table' errors. |
| 8.4.1.1 | Web Service (8*470) | Changes to accommodate JSON results from web services called from DesignBais. |
| 8.4.1.1 | Collapsing Sections (8*471) | While checking for sections affected by hidden sections DesignBais now allows for both<br>initially & currently collapsed/hidden states. |

| 8.4.1.1 | showSpinner and hideSpinner javascript Functions (8*472) | The spinner+text 'as explained below' can be used for lengthy processes (a few seconds)<br>without phantoms+timers.<br>If you use phantoms+timers (i.e. even lengthier processes) we have two new functions:<br>showSpinner('Some text', true/false);<br>    this shows the spinner together with the text (e.g. 'Some text') supplied. The<br>second parameter (true/false) is used to blur and block the background optionally.  I<br>prefer 'false' (no blur) if you have only one button to disable before starting the<br>timer.<br>hideSpinner()<br>    this hides the spinner.<br>When the spinner is shown using showSpinner, it can only be hidden using hideSpinner.<br>You can send showSpinner and start a DBTimer.  When the phantom is done, send<br>hideSpinner.<br>See DBI.G.AJXCMD documentation. |
| 8.4.1.1 | MV Grid Cleared after a Write is Aborted (8*473) | MV fields were being cleared in error when a write was aborted by FILE.OPERATION.STATUS =<br>1.<br><br>Also the list of write variables to check for a write event was not set correctly.<br>Both now fixed. |
| 8.4.1.1 | Group Extract Correlative (8*474) | Group Extracts are now working correctly for UniData.<br>A V-Type with a FIELD function is used.<br>The Compiled message also fixed. |
| 8.4.1.1 | Modal Form Height (8*475) | Use style height instead of the default value of 18 when calculating OUTPUT field<br>CALC.RWS for LAST.ROW.<br>This gives a more accurate form height. |
| 8.4.1.1 | Display phantom output records (8*476) | A new function called Phantom Output has been added to the View Como form. Use this to<br>display the contents of the phantom output file. |
| 8.4.1.1 | Report -XLS-n Records Now Deleted (8*477) | When reports are generated to a cabinet the working records used to produce the tab<br>separated XLS record will now be deleted.<br>The last record of the form 'REP~ddddd-rrrrr-XLS-n' was never saved making the data<br>records unuseful.<br>Upgrade 23 amended to delete the -XLS-n records. |
| 8.4.1.1 | Email Cabinet Report as | DBI.G.EMAILREPORT has been adapted to email the whole report as an Excel attachment. |

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|---|---|---|
| | Spreadsheet (8*478) | |
| 8.4.1.1 | DBIMAGESPEC for Menu Images (8*479) | Menu images will now have the id's of 'dbmenutopimg' and 'dbmenusideimg' and these id's can now be used in DBIMAGESPEC to change the menu image programmatically. |
| 8.4.1.1 | Excel Conversion (8*480) | Excel complains when reports with columns without heading are converted. |
| 8.4.1.1 | PROCESS.STACK change in BEFORE SCREEN (8*481) | The BAWEBEXECNET variable STACK.FORM was being reset completely when only the first multivalue should have been updated. |
| 8.4.1.1 | Report Convert to XLS (8*482) | Default Column Heading now uses Field Report Heading followed by Field Screen Label and finally Field Name. |
| 8.4.1.1 | Child Reads (8*483) | Child reads needed to be treated as if we had found a new key as they are not associated with the eventsource. |
| 8.4.1.1 | Subroutine creation from skeleton (8*484) | The option to create a new DesignBais form handlin subroutine has been enhanced slightly to allow the developer to automatically incorporate form name and other variables into the code. This function is reached by clicking the Subroutine button on the right hand side of the Editor form. |
| 8.4.1.1 | Forms Designer Add Field (8*485) | The 'Fast' and 'Add Field' buttons now set DBMOVETOFIELD in order to scroll the grid to either the last selected item or the last known row position. |
| 8.4.1.1 | DBMOVETOFIELD (8*486) | DBMOVETOFIELD may now also contain the XML label |
| 8.4.1.1 | Layered and Modal Forms on Menus (8*487) | Handle layered (~L) and modal (~M) forms when they are run from a menu the same as when they are run from a button. |
| 8.4.1.1 | OFR Style Insert (8*488) | The variable controlling the style of an OFR clickable cell lost the trailing quote under certain circumstances. |

**Fixes and Enhancements Release 8.3.3.14**

| For Final Release No | Checklist Reference | Full Description |
|---|---|---|
| 8.3.3.14 | Tab Index when adding fields to a form in Forms Designer (8*24) | If Fields Use Tab Index is on then slot the field being added into the tab sequence based on row & column position. |
| 8.3.3.14 | Field Properties display on Copy Form (8*323) | Add button to DBIFORMS_D15 Copy Form to display field properties of the Copy To target form. To assist developer to set the attribute number of fields to be created on the copy to file. |
| 8.3.3.14 | Multifields (8*324) | When moving multiple fields you may now select which of the fields is to control the move. Click the required field in the list of fields on the Multiple Fields Property Update form display. This field will move to the top of the column and will control the move. |
| 8.3.3.14 | DBIGLOBAL_D21 Login Form Google Authorisation Help (8*325) | The help text explaining Google Authorisation is now displayed in an Output field so that HTML tags can be used. |
| 8.3.3.14 | HiCharts (8*326) | HiCharts data may now be an array - see www.hicharts.com API documentation.<br>For example:<br>OUPUT.REPORTS(nn)<row,1> = '{x: 1, y: 9, name: 'Point2', color: '#00FF00'}'<br>OUPUT.REPORTS(nn)<row,2> = '{x: 1, y: 6, name: 'Point1', color: '#FF00FF'}' |
| 8.3.3.14 | Style Definition Edit as text button (8*327) | Style definitions can now be edited as text.<br>This change was in first released in 8.3.3.4 |
| 8.3.3.14 | Field Properties - increase grid size for Valid Inputs (8*328) | The Valid Input List grid has been extended to make it easier to enter and view valid input entries. |
| 8.3.3.14 | Editor (8*329) | When starting the Code Editor DesignBais invokes the user's start form. There was an issue when a timer was used to limit how long a user could leave the login start form idle. To overcome this no DBTIMER commands will be invoked when starting or running the Code Editor. |

| 8.3.3.14 | Responsive Design Radio Button and Checkbox (8*330) | Radio button IDs are generated as 'radio-id-description' and Checkbox IDs as 'checkbox-id-number'. Linking radio button or checkbox form elements in a header or footer form was found to be not working. DesignBais will now allow for the base id to be prefixed with 'h-' or 'f-' which are the defaults for header and footer forms. Note however that additional hyphens ('-') in ids are not permitted. |
|---|---|---|
| 8.3.3.14 | Style Font Size Calculation (8*331) | Font size calculation has been switched off for UniVerse NLS mode. For non-NLS fonts the character widths and line heights will be applied in forms designer to give a more accurate element size. The original method for sizing form elements will remain in place for NLS fonts. |
| 8.3.3.14 | MVON# Editor (8*333) | The logic for code editor was doing a COUNT of a string in another string to determine the last occurrence. MVON4 (formally MVON#) currently returns an incorrect value. A work-around has been put in place. |
| 8.3.3.14 | On Form HTML Editor (8*334) | We have introduced a cut down HTML editor that runs within a form. It is invoke by setting a Custom Attribute on a textarea field of onformeditor='0'. You can also set Custom attribute to dbCssCode='dbais' to indicate the name of a css file that is to be applied. |
| 8.3.3.14 | MV Grid Hidden in Error (8*335) | A MV grid with no data rows was being hidden when moving from one modal form to another. This is fixed in this release. |
| 8.3.3.14 | Responsive Design Data Link Page Dropdown List (8*336) | If the Form Data Link is open when a new RD page is published then the Page Name dropdown list is updated in the 'AFTER READ' event. The procedure then is to initially enter the new page manually or to select it from the search function. In subsequent events it will be available from the dropdown. This avoids the necessity of re-invoking the form from the menu in order to re-populate the dropdown list. |
| 8.3.3.14 | MV Grid Tab Sequence (8*338) | A fix has been made so that, in a MV grid, you can now correctly tab past a MV Output field. |
| 8.3.3.14 | Internet Explorer Open Excel (8*339) | The OPEN.XLS option for IE has been reinstated as window.open. |
| 8.3.3.14 | Sub-Form D152 Field Property Valid Input List (8*340) | The Sub-Form read group has been changed to prevent overlap with parent forms. |

| 8.3.3.14 | On Form Report (8*341) | When paging an on form report it is not valid to set DBRETURN.TO.FIELD if DBSCROLLREPORT is set. |
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| 8.3.3.14 | On Form Report Type for Textarea (8*342) | Developers can now set OUTPUT.TYPE(repNo)<row,col> = 'T' to insert a textarea in an On Form Report. |
| 8.3.3.14 | Child Read Checking in a Form (8*343) | Child reads are now triggered correctly when a parent record is re-read. |
| 8.3.3.14 | Upgrade routine 34 (8*344) | This upgrade removes the colspan setting from image elements in DesignBais reports. In Version 6 colspan on images was ignored. In DesignBais Release 8 the colspan is heeded in order to allow landscape images to present correctly on portrait reports. |
| 8.3.3.14 | Selection Forms (8*345) | The width of a dropdown list in selection forms is now calculated so that the field will not extend past the edge of the form. |
| 8.3.3.14 | Field Help Text (8*346) | There is a new DBIPROP_D21 sub-form to make editing of field help text easier. It is accessed by the Edit hyperlink adjacent to the Help Text field in Field Properties. |
| 8.3.3.14 | New Logon Required Message (8*347) | This has been changed to add a link to refresh the page after errors. |
| 8.3.3.14 | Purge File (8*349) | The Session Date is now read from the main sessions file rather than from the one being purged. |
| 8.3.3.14 | NOHITCHECK Function (8*350) | Contact DesignBais support if you experience network problems that cause DesignBais transactions to get out of sync with the web server. |
| 8.3.3.14 | Upgrade Error on Unidata (8*351) | The capture of SELECT results on UniData is attribute delimited. When appended to the upgrade log output, which is multivalued, the attributes were corrupting DBWORK. |
| 8.3.3.14 | Responsive Design Main Form Show (8*352) | DesignBais will only show an RD page once all changes, such as hiding fields, have been made. This is to avoid a blinking of the display.<br>Under some conditions the page was not displaying. This has been fixed adding setFooterSize() to the RD mainform show() event. |
| 8.3.3.14 | Fixed an issue in the DesignBais Login form (8*353) | The DesignBais login form DBIGLOBAL*D20 was requesting a Google 2 Factor Authorisation pin code when a user changed their password, even if the account was not flagged as requiring 2 Factor Authorisation. This is now fixed. |

| 8.3.3.14 | Responsive Design Date Fields (8*354) | Responsive Design 'date' elements are formatted as yyyy-mm-dd when passed to the data component.<br>However, there is nothing to stop a database date field from being linked to a non-date RD element.<br>We now handle this latter case as a normal date input field. |
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| 8.3.3.14 | Responsive Design Radio Buttons (8*355) | The 'Variable to Use' was being reset during maintenance - fixed. |
| 8.3.3.14 | Review button added to Responsive Design Form Data Link form (8*356) | The review button allows the developer to review the fields on the DesignBais form to which the RD form is linked. |
| 8.3.3.14 | Responsive Design HDRHTM and FTRHTM Unititialised Error (8*357) | Variables are now initialised. |
| 8.3.3.14 | DBRETURN.TO.FIELD (8*358) | Fixed error in the processign of DBRETURN.TO.FIELD. When checking if the target field is ENABLEd DesignBais now uses sub-value position in DBFORM.STATES.LIST. |
| 8.3.3.14 | Responsive Designer Publishing (8*359) | A problem was introduced with the use of DBTIMER during the processing of a webservice. A session record was updated to store the details and then deleted once processed.<br>In the case of RD Publishing DesignBais is using the same session ID as the originating TAB. This meant that a record in use by the originating TAB was deleted causing a crash.<br>The fix is to not delete the session record for RD web services. |
| 8.3.3.14 | Javascript Encoding Changes (8*360) | The application of \ to \\ encoding will convert \n to \\n. This means that no special handling is needed for \n. Encoding of CHAR(13) & CHAR(10) is now perfomed after other encoding which means that there is no need for special handling ofCHAR(13). CHAR(13) encodes to \r not \n. |
| 8.3.3.14 | Forms Designer Add MV Input or Output field to a Multivalue Grid (8*361) | When the row position of an existing multivalue grid was positioned on a non-mutliple of 10 row then fields could not be added to the grid.<br>This has been overcome by a change to now allow the position-indicating clicked row to be one row on the canvas above the grid or one row below the grid. |
| 8.3.3.14 | Mutlivalue Grid Control Positions (8*362) | DesignBais now allows the developer to indicate the position of the Add, Insert & Delete controls. If Add button is specified to be placed below the grid then DesignBais adds a footer inside the grid space. The grid is not refreshed after column header processes. The grid is refreshed if the last row is deleted. |
| 8.3.3.14 | Forms Designer (8*363) | Tab Increment default of 5 when Tab Indexing turned on |

| 8.3.3.14 | Upgrade Routine option 8 (8*364) | Upgrade Routine option 8 has been amended to check for invalid additional style properties such as overflow-hidden which is replaced by overflow:hidden. |
|---|---|---|
| 8.3.3.14 | Convert Report to PDF (8*365) | Report data may contain value marks and sub-value marks which were not being processed correctly in the PDF conversion. Fixed. |
| 8.3.3.14 | Checkbox Styling (8*366) | Browsers have their own default styling for checkboxes. DesignBais prior to this release allowed the browser to render the checkbox for elements.<br>Existing forms do not need to be adjusted and will still allow checkboxes to be resized by developers.<br>In this release checkboxes may now be styled. A new 'Default CheckBox Class' has been added to the Style Group. As the name implies, if a style is entered, it will be the class used for checkBoxes.<br>The field 'Display Class' has been added to the Forms Designer CheckBox Properties form. If a class is available for a checkbox, either on the form or from the default for the style group, then a new <label> element is added to the checkbox form element and the normal <input type=checkbox> will be hidden.<br>See the sample styles dbaisCheckBox and dbaisToggle. |
| 8.3.3.14 | Responsive Design Page Publishing (8*367) | Fields on the Form Data Link DBIFORMS record will now be deleted during page publishing if the element type changes.<br> Historically fields were deleted only when the ID was deleted from the page. This could cause a problem if one field type was replaced by a different field type with the same ID. |
| 8.3.3.14 | CSS Comment Lines (8*368) | Comment lines in the Style Definition 'Additional Styles' are now allowed.<br>E.g. /* Set background */ |
| 8.3.3.14 | Report Prefix added to System Parameters (8*369) | The Report Prefix for HTML and PDF files generated from DeisgnBais reports , if present, will be used to replace the default account name. Slashes and dots will be removed. Leave Report Prefix blank to continue using the account name. |
| 8.3.3.14 | Copy form list of fields to copy or create reset in error (8*370) | A bug has been fixed in the form copy function. A change to the text of original text and change to text in D15 & RD15 was re-setting the copy and create checkbox settings. |
| 8.3.3.14 | DBI.G.SCREENRECNET POS2 Undefined Error (8*371) | This error has been fixed.<br>[The variables POS2 & DESTINATION.ARRAY are now initialised before any call to SET.T1] |

| 8.3.3.14 | Amendments to Selection Processes (8*372) | Amend the Forms Designer Form Name selection process to include the display of the Style Group.<br>Amend the Style selection process to display additional fields Height, Italic and Underline. |
|---|---|---|
| 8.3.3.14 | On Form Report Styling (8*373) | Background-color for the OFR container may be set in the Report Border Class. This is already available.<br>A new Report Detail Class has been added to enable not only the setting of a different background-color for the detail section of the OFR but also to allow custom CSS for the attached scrollbars. |
| 8.3.3.14 | Multivalue Styling (8*374) | Background-color for the grid container may be set in the MV Border Class. This is already available.<br>A new MV Detail Class has been added to enable not only the setting of a different background-color for the detail section of the grid but also custom CSS for the attached scrollbars.<br>The width of the scrollbar will be determined from the MV Detail Class, the default is 18px. |
| 8.3.3.14 | Form Help move field (8*375) | It is now possible to specify a row to which a field can be moved. Previously a field could be only moved up or down the grid of fields one row at a time. |
| 8.3.3.14 | Style Maintenance (8*376) | A new work field and button on Edit as Text form in Style Definition allows you to globally replace one string name with another in the Additional Style Properties.<br>A list of recently maintained styles has been implemented in the same manner as exists for Forms Designer. Selecting from this list provides a means of quickly returning to a recently edited style. |
| 8.3.3.14 | Top Menu Image Styling (8*377) | The formatting of the menu image has been fixed. |
| 8.3.3.14 | Forms Designer Defaults (8*378) | A new form called from System Parameters button 'Designer Defaults' allows system-wide default settings to be defined. These defaults allow you to set the display class, colspan and rowspan for form elements. All defaults can be overridden at run time in forms designer.<br>Default style group for new forms can now be specified. |
| 8.3.3.14 | Edit form help from the Form Help display form (8*379) | If a developer is also a member of the DBAdministrator group then the button 'Edit Help' is displayed at the base of the Form Help display form DBIHELP*FHD.HTML.<br>Click this button to display the DBIHELP*FORMHELP.HTML form which allows the form help to be maintained and saved. After making changes click the Submit button, then close the form help display form and re-open it to view any changes that were made. |

| 8.3.3.14 | Audit Display changes (8*381) | A new link button on the Audit Display allows you to select records from the audit file that have been deleted from the file being audited. The button is labelled 'Select Deleted Audit Records'. Prior to this change it was was necessary to select these records external to the audit display. and then enter a particular key in the Record to Display field.<br>The audit display has been amended to display the content of a record when it is deleted and to handle the display of the audit records when a record with the same key is re-created. |
|---|---|---|
| 8.3.3.14 | DBSTYLESPEC Undefined MV Fields (8*382) | If DBSTYLESPEC was used to adjust the properties of a MV grid as the grid is first rendered then in some cases javascript undefined errors were displayed.<br><br>A javascript timeout has been applied to the DBSTYLESPEC commands to give the browser time to build the grid. |
| 8.3.3.14 | On Form Report Focus (8*384) | DesignBais Release 8, when building an On Form Report, was focusing on the first cell in the report in order to make a freshly built report visible.The new behaviour was put in place in order to keep the OFR in view as you page through the report.<br><br>This was not in line with v6 DesignBais and in order to retain backwards compatibilty this change has been reverted.<br><br>In order to keep the OFR in view DesignBais now sets focus back on the page input element after a page change request. |
| 8.3.3.14 | DBSTYLESPEC for MV Elements (8*385) | The 'C' (Collapse) option as documented for an OUTPUT cell was failing with javascript errors.<br>As the OUTPUT cell does not have an inner <input> element it was decided to treat both the 'C' and the 'I' options the same for MV OUTPUT fields. |
| 8.3.3.14 | Report Page Break (8*386) | The additional page that could occur at the end of reports with break fields has been suppressed. |
| 8.3.3.14 | Report Rotation for Landcape (8*387) | @PAPER_SIZE_START is now added to the first section in a DesignBais Report header, colHeader or Detail. It was originally only in the header section.<br>The dimensions are needed to set up the page rotation.<br>In earlier versions, for a page to be rotated, it had to have a header section. This has been rectified so that reports without a header section will now print correctly. |

| 8.3.3.14 | Responsive Design Lookup (8*388) | Set DBVALUE = â€¢ DBNOFILTERâ€¢ to prevent DesignBais from filtering the list of items in DBDROPLISTADD based on the entered string. |
|---|---|---|
| 8.3.3.14 | Responsive Design Multivalue Updating (8*389) | A MV grid was not being updated when the grid was updated from a change event on another field. Now fixed. |
| 8.3.3.14 | Save File to Web Server (8*390) | A new routine is available to make it easy to save a file to the web server.<br>DBI.G.SAVEFILE has 2 arguments:<br>SF.PATH = relative path that includes the filename e.g. 'uploads/fred.txt'<br>SF.CONTENT = file content |
| 8.3.3.14 | Save HighChart Image (8*391) | OUTPUT.ATTR<47> can be set to the name of a hidden input field in order to capture the svg (Scalable Vector Graphics) representing an image of the chart. Refer to demo form DBDEMO_HICHART. The DesignBais Reference Manual describes this process in the Highcharts section. |
| 8.3.3.14 | D-Type Dictionaries for MVON4 (8*393) | The Field Definition tool now produces D-Type dictionaries for MVON4 (formally referred to as MVON#).<br>This makes it consistent with the original DesignBais for OnWare and with our porting process. |
| 8.3.3.14 | DBIMAGESPEC now applies to Menu Images (8*394) | DBIMAGESPEC is now applied to menu images as the menu is first built. It can be set in the 'AFTER DISPLAY' event. |
| 8.3.3.14 | Responsive Design dbslidePanel (8*396) | Responsive Design dbslidePanel 'sticky' attribute true & false added. Functions open, close & toggle added. |
| 8.3.3.14 | Review button in Forms Designer (8*397) | The Review button in the Forms Designer top section allows the developer to display various aspects of a form, such as all form fields, all form reads, duplicate fields.<br>A new button Display Class displays all form elements that have a display class. Clicking on the display class allows the developer to access the Style Definition form for that class. This is only available to members of the Developers User Group. |
| 8.3.3.14 | Allow Multiple Select from List Elements (8*398) | DesignBais now has the ability to allow multiple selections and the display of more than one selected item in selection dropdown lists. |
| 8.3.3.14 | Word Index Definition (8*399) | There is now a button to display existing Word Index Definitions, allowing the developer to select from the list. |
| 8.3.3.14 | BAWEBEXECNET Variable Unassigned (8*400) | Initialise APP.QSTR and APP.WEB variables in GET.APP.LOGON paragraph. |

| 8.3.3.14 | Javascript Undefined Errors in OFR (8*401) | DesignBais now provides for javascript escape of single quotes in OFR REPORT.HEADER.ATTR.<br>e.g. in background-image:url('images/fred.gif'); |
|---|---|---|
| 8.3.3.14 | CA - customAttribute Function (8*402) | A new function CA or customAttribute has been added to DBI.G.AJXCMD in order to add Custom Attributes used as processing flags for Responsive Design pages. The responsive design data link property pages do not allow entry of Custom Attributes as the HTML is not constructed by the data component. |
| 8.3.3.14 | Forms Designer - using preferences (8*403) | When adding a field to a form from the list of user preferences via the Fast button in designer, buttons were assigned the field filename from the preferences list. This has been changed so that the field filename is now set to the file name on which the form is located (DBDESIGNER.FILE). |
| 8.3.3.14 | Purge Process (8*404) | Move CLEARFILE F.DBIXMLLOG out of the processing of sessions files. This command is only needed once. |
| 8.3.3.14 | BAWEBEXECNET Write Fail (8*405) | Under rare circumstances the write to F.DBIXMLLOG would fail. To prevent this a READU with LOCK has been wrapped around F.DBIXMLLOG WRITE commands to avoid a clash with the purge CLEARFILE F.DBIXMLLOG. |
| 8.3.3.14 | DBDROPLISTADD (8*407) | DBDROPLISTADD, apart from adding droplist items, will now also update the description of existing items in the list and cater for deleting items from the list. The list may also be refreshed to pick up codes added by other users.<br>To delete set DBROPLISTADD<5,pos> = 'D'<br>To refresh set DBROPLISTADD<5,pos> = 'R' |

**Fixes and Enhancements Previous Release 8.3.3.4**

| For Final Release No | Checklist Reference | Full Description |
|---|---|---|
| 8.3.3.4 | Output Field with a Valid Input List in MV Grid (8*288) | When used in a MV grid the OUTPUT field was returning the display value rather than the associated code value from the dropdown select element.<br>The value did not match the select options and hence displayed nothing.<br>This was only an issue if we were displaying one MV row. |
| 8.3.3.4 | Image Display Class (8*290) | Images may now have a display class. |
| 8.3.3.4 | Upgrade routines 30, 31, 32 (8*291) | Additional upgrade routines are included in this release:<br>Option 30<br>Update Form input field rowspan by subtracting 5 to allow display class to set field height.<br>Update checkbox and radio button colspans to 13 and radio button rowspan to 13. There is also the choice to use Label Height for Checkbox and Radio Button Colspan.<br>This option is required to be run when moving from Releases prior to 8.3.3.4. In Rel 8.3.3.4 DesignBais allows the height of form input elements to be defined by the class.<br>This adjustments to row and col spans is a one-off adjustment to existing forms allow for this change.<br>Option 31<br>Clear values from derived fields on DBIFORMS that are set at run time. Fields<br>DBIF.FIELD.DERIVED.PARENT.PROP and<br>DBIF.FIELD.DERIVED.PROP are set at run time. Some forms may have values retained in these fields due to a problem in an earlier version of<br>DesignBais.<br>Option 32<br>Check field colspans are numeric apart from specified prefixes such as % (No Update Option). Reports on any colspan settings that are not numeric. These should be amended by developers. The permitted prefixes are %, mm, px. |
| 8.3.3.4 | Report Designer - Included Reports (8*292) | The sections in reports added to an initial report via DBREPORT.INCLUDE are now added to the starting report record so that they are correctly identified during the report build. |
| 8.3.3.4 | Hidden Top menu display error (8*293) | After styling changes for the top menu were introduced a top menu with 'Top Menu Frame Height' of zero was displayed with no items listed.<br>It will no longer display. |
| 8.3.3.4 | Menu Style Maintenance (8*294) | The fields DBIM.CONTAINER.STYLE and DBIM.ITEM.STYLE are repeated on the form for side and top menus to make control of the display easier.<br>Unfortunately, the repeated fields did not have an after process to control which element on the form should set the value in the database.<br>This has been fixed. |
| 8.3.3.4 | Load checklist build equates function by-passes DBI files (8*295) | The checklist extract and install function has the option to generate program equates, re-build dictionaries and load dictionaries. These are now by-passed if the file name of the checklist item commences with 'DBI'. |
| 8.3.3.4 | Field Valid Input List Refreshed in Designer (8*296) | The CREATE.LIST.DROPDOWN paragraph in the DBI.G.XMLNET subroutine will now Rebuild FIELD.VALID.INPUT dropdown lists in designer. |
| 8.3.3.4 | Web Service Changes (8*297) | Common variable DBPOSTAJAX added to the web service result string. This was done to allow a web service to produce a report and convert it to PDF.<br>In order to check if the PDF has been finalised from a web service, the web service can pass in the path and then in the web |

| | | service subroutine set:<br>DBTIMER<1,2> = 'WEBSERVICE'<br>DBTIMER<1,3> = 'FILEEXIST'<br>DBTIMER<1,4> = Web service Entry XML string<br>DBTIMER<1,8> = file path to check<br>This invokes a normal FILEEXIST check and returns the result to the web service program in PROCESS.PARAMETER.<br>To support the above change more session variables are needed as the web service is established. |
|---|---|---|
| 8.3.3.4 | Change to the list of fields referenced by business rules (8*298) | The list of fields with a business rule has been amended to include fields on a form that have a business rule, rather than a list of fields on the form that are referenced by a business rule. Upgrade Option 33 to Rebuild the list of fields referenced by Business Rules must be run to correct any existing Business Rules records. |
| 8.3.3.4 | Upgrade routine to re-build list of fields referenced by business rules (8*299) | The list of fields with a business rule has been amended to include fields on a form that have a business rule, rather than a list of fields on the form that are referenced by a business rule. Upgrade Option 33 to Rebuild the list of fields referenced by Business Rules must be run to correct any existing Business Rules records. |
| 8.3.3.4 | Report Designer Fixes (8*304) | Forcing a page break when details don't fit on the first page is no longer done as it was leaving a blank page.<br><br>AREA.OF.INFLUENCE rows (variable length fields that will push affected fields further down the page) was not allowing for hidden sections. This has been fixed and the test now includes row adjustment for hidden fields.<br><br>When changing to the next included report the footer for the previous report is now used.<br><br>For CUSTOM paper sizes orientation is no longer applied. This corrects the problem that some report columns were not appearing.<br>When recalculating the areas of influence after a page break offsets are now accumulated - previously were set to 0 which caused overlapping of output. |
| 8.3.3.4 | Report Designer Section Controls (8*305) | Page breaks may now be applied to report sections. See the new Condition column on the Section Control for Report Forms form:<br>Normal Flow - no change<br>Fit to Page - page break if the section will not fit on the current page<br>New Page - page break before the section |
| 8.3.3.4 | onload Event Change (8*306) | It was noticed that the DBORIG.EVENTSOURCE is changed when PROCESS.STACKing from the 'BEFORE SCREEN' event during the initial form load.<br><br>This impacted sending the default values for<br>- ajaxAsync<br>- dbhbMode<br>- setErrorDisplayMode<br>The logic now just checks for an 'onload' event. |
| 8.3.3.4 | DBMail Changes (8*307) | Added the Archive Folder to the DBMAIL configuration forms.<br>DBI.G.DBMAIL changes:<br>1. WEB.PATH option to return the web UNC path from the parameter.<br>2. Allow '%web\' prefix for attachments to be replaced with the web UNC path from the parameter.<br>3. CHECK.ARCHIVE to test value entered on the forms is valid.<br>4. OPEN.ARCHIVE will return the open file variable in the DBMAIL.REC variable. |

| 8.3.3.4 | DBRETURN.TO.FIELD (8*309) | The logic was allowing focus on HIDDEN fields.<br>Code amended to include ENABLEd fields only rather than not DISABLEd. |
|---|---|---|
| 8.3.3.4 | Report Designer bug fix (8*310) | Derived fields in report designer were found to have missing MV markers.<br>This has been fixed. |
| 8.3.3.4 | Forms Designer (8*311) | DBDESIGNER.MVSELECT.ITEM now cleared after a delete field in order to prevent form corruption under certain circumstances. |
| 8.3.3.4 | Forms Designer clear DBFORMLOCAL after Test Mode (8*312) | The DBFORMLOCAL common variable is now cleared after running test mode. This prevents a problem that manifests when a preserve common sub-form is tested. |
| 8.3.3.4 | Read Process triggered after clearing a form (8*313) | A read from a multivalue field was happening when a form was cleared.<br>This has been fixed. |
| 8.3.3.4 | Unassigned Variable Error DBI.G.DETAILNET (8*314) | The internal variable RC is now set before executing ADD.TO.DROPDOWN to fix the unassigned variable error. |
| 8.3.3.4 | MVON# Licence (8*315) | SHOW.SERIAL is used to pick up the database licence and the licence number is now incorporated into the DesignBais licence. |
| 8.3.3.4 | MVON# Active Users (8*316) | The display of the Database Type has been fixed. |
| 8.3.3.4 | Forms Designer Updating (8*317) | The updating check was not working for fields with multiple reads. This resulted in the incorrect error 'not read by DesignBais - application subroutine required.'. |
| 8.3.3.4 | MVON# No Lock Update (8*318) | The MVON# truncated trailing attribute test has been corrected to prevent the adding of trailing attributes to an empty record.<br>Records read with 'No Lock' are no longer saved for comparison before being updated. This means that a record that is not locked and then written by DesignBais may overwrite a change to that record that is made by another user. |
| 8.3.3.4 | Forms Designer (8*319) | Row and Column non-numeric test changed to suit D3. |
| 8.3.3.4 | Users Maintenance form Group field (8*320) | A new sub form can now be opened in Users Maintenance to to display the multivalued grid input field for User Groups. This sub form enables a longer list of user groups to be visible which makes maintenance easier.<br>It is accessed from the Group List button. |
| 8.3.3.4 | Form Tabbing problem (8*321) | When tabbing out of a multivalue grid disabled fields are now skipped. This corrects a problem that lead to focus remaining on the last empty row of a grid. |

**Fixes and Enhancements Previous Release 8.3.3.2**

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.3.3.2 | Remove MV Grid Border <div> (8*268) | The extra <div> tag for the MV border is not required and has been removed.<br>The MV Border Class is now applied to the 'mvO' <div> which contains the other grid components.<br>This will also facilitate drag and drop for Forms Designer. |
| 8.3.3.2 | FIELEXISTS PROCESS.PARAMETER (8*270) | PROCESS.PARAMETER was not getting set with the file path from DBTIMER<1,8> |
| 8.3.3.2 | DBMVPROP (8*271) | The new add control DBMVPROP<18,pos> was not applied when clicked.<br>The new delete control in DBMVPROP<19,pos> = 'D' was not asking for confirmation. |

| 8.3.3.2 | DBIF.FIELD.DERIVED.PROP & DBIF.FIELD.DERIVED.PARENT.PROP (8*273) | These form attributes are set from a field's properties 'Subroutine to Derive' and 'Parent Fields that force a re-calculation of the Derived Field' at run time. It appears that at some point these fields were actually stored on the form record. For consistency these fields are now included in all form field updates. As they are set at run-time the attributes will be cleared by the upgrade routines. |
|---|---|---|
| 8.3.3.2 | OFR Javascript Character Escaping (8*274) | It has been noticed that '\' characters were being dropped from the data fields of an OFR. The OFR data is now HTML encoded before escaping characters for javascript. |
| 8.3.3.2 | Row & Column Validations (8*275) | To avoid runtime errors the validation of Col, Row, Col span and Row Span has been strengthened. For example Row span of '4-' was entered instead '40' causing runtime errors. |
| 8.3.3.2 | DB.REFRESH.WORK.LIST Array (8*276) | This COMMON variable array is now included in the snap shot routines. |
| 8.3.3.2 | MV Grid Delete (8*277) | DBWORK fields with a group association were being identified as 'not in the grid'. Unfortunately, the attributes were then being deleted from the wrong variable - potentially corrupting the data. If DBWORK fields are listed in the grid they will be updated correctly. Any unlisted DBWORK fields that are associated with the grid fields will need to be updated by the application. |
| 8.3.3.2 | Refresh this Checklist on Read (8*278) | The Refresh this Checklist on Read is no longer set to Yes on submit from form A10. |
| 8.3.3.2 | Amend View Record function to handle DBISYS files (8*279) | View Record has been amended to retrieve the equate names for DBISYS type files from the corresponding DBI file. |
| 8.3.3.2 | Field Before Script (8*280) | The Field Before Script is no longer active when maintaining a form in the Forms Designer grid. |

| 8.3.3.2 | Read Group and Read Variable audit report (8*282) | A button 'Check Read Groups' has been added to the Review form in Forms Designer. A list of forms can be entered and all DesignBais reads on these forms will be displayed in an on-form report. By sorting on various columns the developer can check if forms called as sub-forms contain a read group or read variable that is used by the base (or calling) form. In some cases the re-use of read groups and read variables will cause problems. |
| 8.3.3.2 | Menu Background Color (8*283) | If a menu has no style (class) attached then the default grey backgound-color is set. This happens even if there is no menu to display, for example on a login form.<br>The inline style property would then override the background-color set in the menu class.<br>This default inline style property is now removed when the next or first  menu has a class attached. |
| 8.3.3.2 | ICOMP for jBASE (8*284) | ICOMP to compile I-Type dictionary for jBase added |
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**Fixes and Enhancements Previous Release 8.3.3.1**

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.3.3.1 | Hit Count Licences (8*65) | Connection Pricing based on Connection pooling is no longer available in DesignBais Release 7/8. It has been replaced by a WebServer Hits per Period (HPP) billing method.<br>Pricing based on the HPP method is very similar to the previous pricing.<br>The Hits per Period method aggregates hits over a 10 hour period. If the system exceeds the allowed hits the next user to attempt to access the system will be asked to try again later. Existing users will not be affected.<br>DesignBais will monitor the hits and provide email warnings when the maximum is being threatened. |
| 8.3.3.1 | Transfer DBCLIENT demo data fields to DBDEMO (8*67) | The demo data and forms that are provided in the DBINET.DEMO account are now based on the DBDEMO file. This file has replaced the DBCLIENT file that was used previously.<br>DesignBais action: Create DBDEMO file and base demo forms on DBDEMO. This allows DBCLIENT fields to be used and changed for debugging issues without interfering with release demo forms. |
| 8.3.3.1 | Exclusive locks remain when browser tab closed (8*76) | Locks no longer remain set when the user closes a browser tab via the X. We now detect the session ID of the tab closing and can therefore close them one at a time. Closing the browser closes all open sessions. |

| 8.3.3.1 | MV Grid tabbing error (8*80) | If the final field in the grid is "Output" then at the end of row 1 focus jumps to next field on the form as defined by the tab sequence.<br>If the final field is "input" focus remains in the grid until tabbing out of an empty row. This is correct behaviour. Fixed in 8*214 |
|---------|------------------------------|-------------------------------------------------------------------------------------|
| 8.3.3.1 | Upgrade Routine 2 (8*160) | The assignment of Group Name in Upgrade Routine 2 has been removed.<br>Field Properties Group Name is no longer updated based on the association name from a form. |
| 8.3.3.1 | Process Stack to a form with a Default Key Value read (8*199) | The form does not display correctly. Example PROCESS.STACK = 'DBIRULE_ERRMSG' or DBIPARMS_D10. This error has been fixed. |
| 8.3.3.1 | FILES, SUBRS & FLAVS moved for NLS (8*205) | These items now reside in the DICT of DBINET to make the upgrading of NLS systems easier. Previously they were held in the DBINET library file. |
| 8.3.3.1 | MVON# Compile (8*206) | The command EXECUTE 'RESET' has been added in order to release object code. |
| 8.3.3.1 | Database Version (8*207) | The database version / release number has been added to System Parameters and now displays at the top of the form D10. |
| 8.3.3.1 | OAS Files in Editor (8*208) | DIR, LD & LF files have been added to the Editor dropdown selection list for the OAS (OnSystex) database. |
| 8.3.3.1 | HTML and PDF report options (8*209) | The Printer dropdown selection on the Report .RUN form is now tailored to provide the option to 'Email as a HTML' if DBMail is not active. If DBMail is active the option to 'Email as a PDF' is displayed. |
| 8.3.3.1 | Checklist field properties changes (8*210) | The text tag on the checklist field property DBCK.SRL has been changed from SRL to Checklist. This reflects a change in terminology since the checklist concept was first developed. |
| 8.3.3.1 | Upgrade Routine 29 (8*211) | Upgrade Routine 29 has been provided to incorporate the Select Process Date Lookup style within any stylegroup and apply it to all Selection Processes that use the stylegroup.<br>This style is applied to any date hyperlinks in a Selection Process. If empty then dbaisSearchLabel is applied. |
| 8.3.3.1 | DBI.G.DBSPECIFICNET Unassigned Variable (8*212) | CREATE-FILE OS.DATAOUT needed to be initialised. |
| 8.3.3.1 | Responsive Design Checkbox (8*213) | The old Checkbox string was not in the correct format to match what was in the page HTML. |
| 8.3.3.1 | MV Focus when Tabbing (8*214) | MV Output and Disabled fields are now skipped when setting focus. |
| 8.3.3.1 | Change to code editor lock key on DBISESSIONS (8*215) | The code editor lock on DBISESSIONS was EDITOR*filename*itemname. This has been changed to EDITOR*filepathname*itemname to avoid clashes with the same record being locked in different accounts. Several routines have been amended to allow for this change. |
| 8.3.3.1 | DBTIMER Changes (8*216) | TIMEOUT added for one off DBTIMER event.<br>TIMEOUTEND added to kill the current TIMEOUT event. Just clearing DBTIMER will stop the next TIMEOUT event but will allow last event to fire.<br>ISFILEEXIST added to verify a file exists on the web server and FILEXISTRESULT passes the result back. |

| 8.3.3.1 | DBMVPROP Allow Insert & Delete (8*217) | DBMVPROP has been extended to cater for dynamic changes to Allow Insert and Allow Delete. <br> DBMVPROP<18,assocPos> = Allow Insert <br> Y = Yes allowed <br> N = Not allowed <br> A = Add Only <br> I = Insert Only <br> DBMVPROP<19,assocPos> = Allow Delete <br> Y = Yes allowed <br> N = Not allowed <br> D = Allowed with Dialog <br> DBMVPROP is no longer applied while in Forms Designer. |
|---|---|---|
| 8.3.3.1 | Multi-Value Selection with Accept button (8*218) | In a selection process selecting multiple values now works across pages. Previously selections from one page were discarded when moving to the next page. |
| 8.3.3.1 | Menu Option READ Processing (8*219) | When a menu option is clicked READ processes were being called unnecessarily. The read variables are now initialised after a menu option is clicked. <br> DBWORK.SAVE, DBRECORD.SAVE, DBOTHER.RECORD.SAVE & KEY.PART.SAVE used during key checking were added to the variables cleared. |
| 8.3.3.1 | Report run form Printer dropdown list truncation (8*220) | The dropdown list of printer options was truncated in certain cases. This has been fixed. |
| 8.3.3.1 | MV 'Click event on process after' in Enquiry Mode (8*221) | Traditionally MV Click Event Processes were left active in Enquiry Mode. This has been left undisturbed. However, a new form flag 'Enquiry Mode MV Click Event' has been added to disable MV Click Events in Enquiry Mode. If this is set you can still enable fields by including in them in the list of 'Enquiry Only (Input) Fields'. |
| 8.3.3.1 | MV Header Process in Enquiry Mode (8*222) | A MV Header process was not invoked in Enquiry Mode even if it was not in the list of Buttons to Disable as the EVENTFROM was not set. It is now invoked but can be disabled by including it in the list of Buttons to Disable. |
| 8.3.3.1 | DBDROPLISTADD (8*223) | DBDROPLISTADD can now be applied to fields with a Valid Input List, including multivalued fields. |
| 8.3.3.1 | Build of program equates after checklist load is now optional (8*224) | After installing a checklist transfer file DesignBais used to generate the program equates, load the dictionaries into the field properteis file and then re-build the dictionaries from the field properties. This is done using the subroutine DBI.G.CLER. <br> This feature has been amended to allow the user to control which of these actions is to occur, via work fields on form DBICHKEXTRACT_A10. The user can now select using check boxes any of these options, or leave all options off. |
| 8.3.3.1 | Workflow Enhancements (8*225) | The Workflow Function has been enhanced. The main changes are: <br> User Groups can be flagged with a Workflow Access Level and a list of users belonging to the group. <br> A field can be specified for each workflow step to be used to calculate the Date Due By for action related to the task. <br> A style group to be applied at run time to all workflow forms can be specified in the workflow control form. This allows the workflow forms to present with a similar look to other application forms. <br> Workflow history and purging are now available. |

| 8.3.3.1 | RUN Form Dropdown Lists (8*226) | The printer dropdown list was truncating the text. The width of the dropdown is now made as wide as possible on the form which is based on the Selection Process width. The dropdown list itself is controlled by the custom attribute 'dbsellimit' which may now be set to the required width. |
|---------|--------------------------------|----------------------------------|
| 8.3.3.1 | Upgrade Routines (8*227) | A fix has been applied to flag an error if none of the upgrade routines are selected before clicking submit. In other words at least one routine must be selected. |
| 8.3.3.1 | Report Designer Vertical Lines (8*228) | Boxes may now be created with 0 col span (vertical line) as well as 0 row span (horizontal line). |
| 8.3.3.1 | Allow \| in Output Conversion (8*229) | The pipe character is used by DesignBais as a delimiter when saving the Field Output Conversion, Field Input Conversion Subroutine and Field Output Conversion Subroutine. There was therefore a problem if the developer used the pipe as a separator when defining conversion codes. DesignBais now allows for a pipe in the Output Conversion by using a count of the number of pipe characters. The programs will be in the last 2 fields if >= 3 pipe separated fields are in the string. |
| 8.3.3.1 | Report Designer (8*230) | When calculating the influence of fields above a report field, the left margin offset is now correctly incorporated. |
| 8.3.3.1 | DesignBais Carousel (8*231) | DesignBais now supports the incorporation of the Carousel widget in both DesignBais and Responsive Design Forms. |
| 8.3.3.1 | Tab lastmarker Event (8*232) | When tabbing through form fields DesignBais now reverts the lastmarker field function to the onfocus event in order to stay in the form. |
| 8.3.3.1 | Display of HPP statistics (8*233) | Hits per Period statistics are now displayed on the Active Users form. |
| 8.3.3.1 | Code Editor enhancements (8*234) | The DesignBais code editor now supports bookmarks. Bookmarks can be set, toggled on and off, and saved, or cleared. Use function key F4 to display the list of bookmarks. The DesignBais code editor now displays in the status window the label of the paragraph that is currently in view / focus. This permits the developer to know which section of code is in view even after the paragraph label has scrolled off the top of the window. |
| 8.3.3.1 | MV Grid READ before MV_HEADER Process (8*235) | If the MV field changes prior to clicking the header process then both the READ and the MV HEADER events are processed separately by DesignBais. The validate and read occur first followed by the header process. If the header process is clicked without changing the current MV then only the MV_HEADER is required. |
| 8.3.3.1 | Report Designer Do Not Display Run Window (8*236) | Do Not Display Run Window (DBIR.SUPPRESS.RUN) should not be applied when in DBREPDESIGNER, the Report Designer. |
| 8.3.3.1 | On Form Report Input Field Tab Index (8*237) | On Form Reports may now be included in the Tab Index sequence created in Forms Designer. If an OFR is given a Tab Index then any Input fields in the report will be assigned that Tab Index. |

| 8.3.3.1 | Minor changes to Development Checklist form (8*238) | The Checklist selection lookup now displays only checklist header records rather than all pages for all checklists.<br>The 'Refresh this Checklist On Read' checkbox is now hidden once a checklist page is selected to overcome the impression that this setting is 'saved' as part of the checklist page details.<br>The 'Add Subroutines to Checklist' checkbox is now hidden once a checklist page is selected to overcome the impression that this setting is 'saved' as part of the checklist page details. |
|---|---|---|
| 8.3.3.1 | Carrying DBMVCOUNT on Selection Return (8*239) | Lookups run from a MV 'Click event on process after' were not carrying the DVMVCOUNT into the Modal Return. Now fixed. |
| 8.3.3.1 | Ensure that Q-Pointer set by DBI.G.DBSPECIFICNET is unique (8*240) | The SET.QPOINTER function creates a pointer in the VOC or MD. The session id has been added to the name of the pointer to ensure it is unique. |
| 8.3.3.1 | New Command Line function (8*241) | There is now a new button on the Code Editor form (DBIUSERS*D80) to access the Command Line function. This allows the developer to run command line verbs in the event that a terminal session is not available. It is only available to users in the DBAdministrator user group. |
| 8.3.3.1 | Variable Uninitialised DBI.I.START.PRINTNET (8*242) | DBPRINTSUP = '' now set at the start of the code. This is set to the key of the report supporting record when needed. |
| 8.3.3.1 | Report Cabinets (8*243) | Previously dbaisDefaultMouseOver and dbaisReportBody styles were hard coded. The style is now checked in DBSTYLEGROUPSPEC and read to pick up mouse over style & report style (for mouse out).<br>Some heading cells were hard-coded to have a white backgound - the background color and font-size now come from the styles used. |
| 8.3.3.1 | Create Dropdown Unassigned Error (8*244) | After enabling DROPLISTADD for fields with a valid input list a variable unassigned error was found and fixed in DBI.G.DETAILNET (line 705). |
| 8.3.3.1 | On Form Report Headings (8*245) | OFR Headings now have white-space:normal set by default to allow heading text to wrap which matches DesignBais V6 behaviour. This can be overwritten by including your own white-space setting in the style or in DBREPORTHEADER.ATTR |
| 8.3.3.1 | MVON# PHANTOM Arguments (8*246) | PHANTOM_TRACKing passes an ID containing the word PHANTOM to DBI.P.CALLDBSUB. Unfortunately MVON# strips the word from @SENTENCE and a work around was necessary. No doubt it will be fixed in MVON# and the work-around removed at some stage. |
| 8.3.3.1 | Amendments to Upgrade routines (8*247) | The upgrade routines selection form now allows tabbing through the Run Type and Run? checkbox fields. This is achieved by adding ' tabindex='5 to the html.<br>Upgrade Option 8 - Standardise Style Names now also checks all forms to ensure that the field display class values of 'Label', 'Label Header' etc have the correct case (text case). |
| 8.3.3.1 | Email Report to Self from Run Form (8*248) | The REP2PDF.SCALE factor is now applied when emailing a PDF via DBMAIL. |

| 8.3.3.1 | Standardise Style Names (8*249) | DesignBais standard style names have been case insensitive - its seems that any of the values 'Input', 'input', 'label', 'Label' & perhaps 'LABEL' could be in the field.<br>DesignBais has been inconsistent in its own usage as Selection Process forms use 'label' and 'input'.<br>To avoid the need to run the Upgrade routine which will fix your data DesignBais now does an 'MCT' conversion before checking the standard style names. |
|---|---|---|
| 8.3.3.1 | Find String function now checks for read lock (8*250) | The Find String function now checks if a basic routine is locked before calling code editor. A message is displayed advising which user has the routine locked. |
| 8.3.3.1 | Same Field used in different MV Grids (8*251) | When a field in the last column of a MV grid was also used in an earlier grid DesignBais was erroneously updating the first occurrence of the field, the one in the earlier grid.<br>This has been fixed. |
| 8.3.3.1 | DBCALLURL (8*252) | The default behaviour was inadvertently changed to include any existing query string parameters. This has been corrected.<br>The web server now sends unload when the browser is closed via X so that the session(s) can be tidied up.<br>To prevent the web server inadvertently logging the user out DesignBais now adds the variable rdNavigate=true; to the ajax response when required. For example, Responsive Design pages may need the old session data to pass into the next page.<br>The V6 jsquit=true; has been removed as it is no longer used by DesignBais.<br>The DBCALLURL option ;dbAccount=acctName has been added so that a URL can be directed into the same account e.g. to run RD pages when the base URL goes through a separate login account.<br>Change account has been tidied up slightly to include last options before the nextSession. |
| 8.3.3.1 | New fields for development request authorisation (8*253) | A new form A60 allows entry of a default list of authorisers for development work. Authoriser codes are validated against DBIUSERS.<br>The Checklist entry forms A10 and A12 now allow the entry of one or more authorisers for a development task, along with an authorised date and an authorised action which can be Proceed, On Hold, Reject. |
| 8.3.3.1 | Run a Form now allows RD forms to be run (8*254) | Run a Form now allows RD forms to be run. Enter the DBIFORMS form name not the RD page name. |
| 8.3.3.1 | Workflow User Group (8*255) | You can now directly add a Workflow User Group, from within User Group maintenance, to the user record of users that are being entered as members of a workflow access group.<br>Where the User Group being maintained is not in the list of User Groups for the user then it will be added to the user's list of User Groups. |
| 8.3.3.1 | MV Grid Refresh (8*256) | When a layered form was closed and the base form data was updated during the modal return in order to trigger a re-read, an error caused the updated data in the MV grid affected to be cleared.<br>MV grids will no longer be cleared during an 'afterunload' event. |
| 8.3.3.1 | Auto Load Dropdown Refresh (8*257) | The dropdown selected field is now forced to be reset when a form is reloaded after closing a modal. |

| 8.3.3.1 | Focus Calculation for Duplicate Fields (8*258) | When a form contained duplicate fields the tabbing calculation was picking the correct field that is next in the tab sequence and setting DBRETURN.TO.FIELD.<br>However, if the field name is repeated this was always focusing on the first occurrence of the field.<br>DBRETURN.TO.FIELD will now accept an XML label so that the target field is uniquely identified. |
|---|---|---|
| 8.3.3.1 | MV Grid tabbing error (8*259) | The variable FOCUS.NEXT.FIELD needed to increment UPTO.COL when skipping MV Click Fields.<br>Auto focus calculations now allow for the MV 'Insert Allowed' property to be blank. |
| 8.3.3.1 | PROCESS.STACK From MV Event (8*260) | A MV event flag is set to indicate that only one row of the MV grid needs to be read and rebuilt.<br>This flag was carrying forward to a stacked form and disturbing the MV reads.<br>The MV controls (DBMVEVENT, DBX.MVEVENTTYPE) are now reset for the new form to allow reads. |
| 8.3.3.1 | DBI.P.ACCOUNT.SETUPNET (8*261) | The following errors have been fixed:<br>The list of CUSTOM.FILES from DBIGLOBAL was not being read. The list from DICT DBINET was read twice due to a coding error.<br>Dictionary pointers were not being reset when run in DBINETLOGIN. |
| 8.3.3.1 | Display RD Event in Form Data Link (8*262) | The Event setting for a button or input field is now displayed in the Form Data Link element list. This conveys useful information to the developer who can then know that the page will actually produce an event. |
| 8.3.3.1 | Account Change (8*263) | Logout on change of account now sends the correct Session ID when a session is closed in the browser e.g. when closed via X. This allows the correct user to be logged out and session details to be removed.<br>The error message displayed when a user attempts to log to an account that does not share the session files now reads 'Session Details Unavailable in ':DBIACCOUNT:' Environment.' rather than 'Session has timed out.' |
| 8.3.3.1 | Development Checklist dictionary compile (8*264) | When loading changes using the developemnt checklist system all loaded dictionary files are now compiled to ensure I-type dictionaries are re-built. |
| 8.3.3.1 | RD Output Field (8*265) | When the field name changes in the Output Field Definition form the system will now pick up the default field properties.<br>e.g. work fields were not being assigned to DBWORK automatically. |

| 8.3.3.1 | HighCharts (8*266) | Two new OUTPUT.ATTR attributes to enable additional options to be loaded. OUTPUT.AT<45> = MV list of nodes. For now only title, subtitle, xAxis & yAxis are supported. OUTPUT.AT<46> = MV list of options for the associated node in <45>. Each may contain a comma separated string of the option to be included. For example: OUTPUT.AT<45,-1> = 'xAxis' OUTPUT.AT<46,-1> = 'tickmarkPlacement: 'on', lineWidth: 0' OUTPUT.AT<45,-1> = 'yAxis' OUTPUT.AT<46,-1> = 'gridLineInterpolation: 'polygon', lineWidth: 0, min: 0' Spider charts are now supported. |
| | | |

**Fixes and Enhancements Previous Release 8.3.1.6**

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.3.1.6 | Selection Process defect when pop-up calendar is used (2*257) | There was a defect in Selection Process when a single field is used more than once in the selection statement, typically when the date selection is of the form: Received_Date GE Date1 and Received_Date LE Date2. The selection from the popup calendar always goes to the first occurrence of the field. Fixed. |
| 8.3.1.6 | Default Form Help for DesignBais form DBIPARMS*M33 (2*263) | DBI.G.BUTTON should run the FHD form when B.DBIFORMHELP button is clicked. But for form DBIPARMS_M33 the button does not send an event. When 'DBIPARMS*M33' is entered into the Form Id field of DBIHELP_FHD then the default help form displays ok. Fixed: the Cancel button overlapped the Form Help button. |
| 8.3.1.6 | Amend Users Maintenance to allow click of User Group code (3*21) | The MV Header Process on the Group column now runs User Group maintenance thereby allowing the click of the Access Control button, allowing 'Full Access' and 'Enquiry Access' to be maintained. Clearing or submitting returns focus to the Users Form. |
| 8.3.1.6 | DesignBais Licence Evaluation will expire in 60 days message (8*71) | This message will no longer display between Responsive Design page hits. |
| 8.3.1.6 | MV Click Field Readonly (8*182) | MV grid fields that had Click events but marked as Readonly were being skipped during focus events. |

| | | This caused javascript errors that have now been rectified. |
|---|---|---|
| 8.3.1.6 | Report Form Review Button (8*183) | The Review button has been added to Report Designer. This allows the same enquiries as per Forms Designer. |
| 8.3.1.6 | Prevent duplicate eXpress Cabinet Drawer description (8*184) | When saving a report to a cabinet and Create a New Drawer is checked the drawer description is now validated to ensure it is unique. |
| 8.3.1.6 | Selection Process (8*185) | Selection Processes could be corrupted by mismatched entry points and refinements. The entry points must be associated with command lines to be useful. Additional lines in the Entry Supplied list will now display with a separate DBUSAGEVAR attribute but still have no effect on the selection. |
| 8.3.1.6 | Hit Stats (8*186) | A hit is now Logged only after we have the correct logged on user. |
| 8.3.1.6 | Menu Invalid Option Errors (8*187) | The 'stranded' hit status following a menu 'Invalid Option' error is now removed. |
| 8.3.1.6 | Responsive Design Radio and Checkbox (8*188) | When data linking we now pick the default read use variable. |
| 8.3.1.6 | Missing Images (8*189) | The alt attribute of images will be set to ' ' to trigger the browser to show the default missing image. This means that images will be more easily identified in the Report and Form Designers when no col span has been provided. |
| 8.3.1.6 | Undefined Variable (8*190) | PS.EXTRACT was not always assigned a value - now initialised. |
| 8.3.1.6 | Add subroutine name to checklist (8*191) | This feature modified to not add DBINET routines to a checklist. |
| 8.3.1.6 | Responsive Design Checkboxes (8*192) | The Process After was not displayed in the Form Data Link element list.<br><br>Checkboxes wrapped in HTML were not being linked correctly. |

| 8.3.1.6 | Form Help changes (8*193) | Duplicate fields on a form, such as a second submit button, are now added to a list which is displayed for reference.<br>There is a new Upgrade Routine 28 to amend existing form help records on DBIHELP to amend the DBIH.PROPID field to remove the field xml id which was originally used to attempt to provide a unique reference to duplicate fields. |
|---|---|---|
| 8.3.1.6 | Form fields display from Designer Review button (8*194) | The Review button in Forms Designer was not including the form default read in the list of form reads. This has been fixed. |
| 8.3.1.6 | Hit Statistics (8*195) | The hit counts were cleared if we had a hit at 0:00 - minute 0 will now be minute 1.<br><br>Local HIT.STATS have been moved to DBIPARMS. The record was in fact Global as it was stored on DBISTATS alongside HIT.STATS.GLOBAL.<br><br>Global Stats are now the default in the 'Hit Count' form of Active Users. |
| 8.3.1.6 | DBTIMER in Designer Test Mode (8*196) | DBTIMER is now switched off when Test Mode is exited. |
| 8.3.1.6 | Code Editor lock record clash between accounts (8*198) | Code Editor sets locks in DBISESSIONS with id: 'EDITOR*DBINET*DBI.I.FF'<br>0001: 18692<br>0002: 34249.428<br>0003: garb<br>0004: DB.NET<br>This causes a problem when accounts share DBISESSIONS but do not share the Basic Code library, in this example DBINET.<br>The lock now includes the file path instead of just the file name. |
| 8.3.1.6 | COMO Log File Size Default (8*202) | The default log size was 0 characters. Unless the Global parameter was set then turning logging on in UniVerse or MVON# produced an empty file.<br><br>The default is now 10k and has been applied to all databases. |
| 8.3.1.6 | DBREPORT.UPDATE<9> (8*203) | A new flag to enable a change to OUTPUT.KEYS for an On Form Report cell. |

**Fixes and Enhancements Previous Release 8.2.6.2**

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.3.1.2 | Forms Designer Update Override (8*25) | A validation in Forms Designer Updating now disallows a DesignBais write of a read variable that has been read from a multi-value field by setting Update Override to Yes. Similarly if the variable has not been read by DesignBais the Update Override will be set to Yes. The update of records read by DesignBais from a multivalue must be handled by the developer's basic subroutine. |
| 8.3.1.2 | Form Help defaulting to the previous field help (8*89) | The display of field help using the form help button for a field which had no defined F1 helptext was not being cleared. So a button with no defined help displayed the help text from previous field. |
| 8.3.1.2 | Form Help does not display F1 Field Help (8*96) | The F1 Field Help was not displaying on Form Help. This bug has been fixed. |
| 8.3.1.2 | Disable checkboxes in Enquiry Mode (8*129) | The code was inconsistent - treated checkboxes like inputs in one place and like a button in another. Checkboxes will be disabled by default in Enquiry Mode but may be activated with other input fields in the Forms Designer Enquiry option. |
| 8.3.1.2 | DBREPORT.INCLUDE (8*130) | DBIF.FIELD.FORMAT <198> added to the fields merged into the master report so that report output conversions happen as expected. |
| 8.3.1.2 | Responsive Design Error Messages (8*131) | We now use rdShowConfirm instead of rdShowAlert for IERR.TEXT and DBDS messages by default. |

| 8.3.1.2 | eWay PCI Interface (8*132) | New option in DBI.G.AJXCMD to add scripts to a page.<br>New subroutine DBI.G.EWAY with entry points TO:<br>1) Check eway configuration and add scripts to the page for eway encryption<br>2) Build DBW3CCREDIT.OUT from the argument<br>3) Extract the eway responses and populate the return argument<br>4) Extract the eway response and sent values and populate the return argument<br>5) Build the XML string in DBI.G.FOOTERMNET<br>New equate item E.DBIEWAY to define the arguments for DBI.G.EWAY.<br>New demo form DEMO*EWAY. |
|---------|---------|---------|
| 8.3.1.2 | Checkbox Value Lookup Form Close via X (8*133) | Checkbox value lookup form DBIFORMS D152 was closing the properties window in the level<br>below when closing via X. |
| 8.3.1.2 | Report Entry Point Dropdown (8*134) | Dropdowns from a valid input list were not getting a default width calculation. The width<br>can now be set in the selection or be calculated. |
| 8.3.1.2 | MV Vertical Alignment. (8*135) | MV fields were being set with 'vertical-align: middle' by default apart from textarea fields which were 'vertical-align: top'. Textareas in a MV grid are still 'vertical-align: top' but the default is only applied if no 'vertical-align' setting is<br>in the style to be applied. |
| 8.3.1.2 | OFR Style (8*136) | The OUTPUT.ATTR values for On Form Report Cells may now contain 'style='...''. The<br>'style=' is converted to the traditional separator '~|' and leading & trailing quotes are<br>removed. This change was to assist with migration issues from earlier versions. |

| 8.3.1.2 | Images on Reports (8*137) | In order to keep images within the report page the in-line style height on images has been replaced with max-height & max-width. This scales the image to either the width or<br>height and hence prevents distortion. If Col Span or Row Span for the image is missing then the width to use is calculated from the page size. |
|---------|---------------------------|---|
| 8.3.1.2 | Report Designer (8*138) | Added GOSUB BUILD.CATEGORY.LISTS to AFTER.READ in order to retain favorites data after a<br>report clear. |
| 8.3.1.2 | Responsive Design Redirection (8*139) | Responsive Design forms are new URL calls with dbpage='site-page'. This means a new form<br>starts a new session. Responsive Design forms can therefore be accessed directly from the<br>browser. Entering a process 'mid-stream' may cause data entry and security issues. Developers should track the status of the session and redirect the user to a starting page if the session has not been started correctly.<br>To avoid page flicker we only display the new form after the final hit before data entry.<br>We have been able to plug into this process to allow redirection of Responsive Design pages from the AFTER DISPLAY process. |
| 8.3.1.2 | PROCESS.STACK on Dialog Response (8*140) | We now allow PROCESS.STACK on DIALOGRESPONSE_1 (OK button). It was already allowed on<br>other buttons. |
| 8.3.1.2 | On Form Report Page Controls (8*141) | Remove   from 'Go To Last Page' as it was wrapping under the awesome font icon |
| 8.3.1.2 | Suppress creation of transfer file when creating checklist from backup form (8*142) | In DBI.I.DBIBACKUP set DBVALUE<4> = N in the the CREATE.CHKLIST paragraph to stop creation of transfer file. The file can be created manually from the checklist if required. Large checklist files may crash DesignBais due to timeout. The process needs to<br>be run in a phantom.<br>Pass SRL id back yo calling routine in DBI.G.BLD.CHKLIST. |

| 8.3.1.2 | DBCALLURL (8*143) | The option ;currentWindow has been re-introduced to allow clearer replacement of the<br>current browser location. This is the default behaviour. |
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| 8.3.1.2 | Include Header and Footer form in Checklist (8*144) | When adding a form to a checklist the forms designated in the Include Header and Include<br>Footer slots are also now added to the checklist. |
| 8.3.1.2 | MV Events Unassigned Variable (8*146) | Fixed - introduced after moving code to fix an issue when a grid contained the same attribute is in the grid twice even though it may be for a separate file. |
| 8.3.1.2 | eXpress Reports bug fix (8*155) | Users were permitted to enter the Run eXpress Report option before the eXpress templates<br>had been set up. This has been fixed. |
| 8.3.1.2 | MV Updates (8*156) | The check for associated fields not on the form needed to allow for fields from different<br>read variables & hence different files.<br><br>The FIELD.ATTR check needed to be by FIELD.READ.USE variable as well as the attribute<br>number to separate DBRECORD<151> from DBWORK<151> or DBOTHER.RECORD(nn)<151>.<br><br>For reads from a field in the grid DBKEY or DBKEYS are cleared.<br><br>After a MV Add, Insert or Delete only the affected row will be read. This keeps data entered on the other rows. |

| 8.3.1.2 | Form Help button placement (8*157) | Amend DBI.G.FORM.FIELD to allow for iBais type form headers when determining where to place the form help button.<br>* allow for iBais form headers<br> IF FORMREC<DBIF.FIELD.COL.LIST,CPOS> = 0 AND FORMREC<DBIF.FIELD.ROW.LIST,CPOS> = 0 AND FORMREC<DBIF.FIELD.ROW.SPAN.LIST,CPOS> = 30 THEN<br>   FORM.DISPLAYCLASS = 'dbaisSearchLabelLite'<br>   ADD.BUTTON.TO.HEADER = 1<br>   FORM.RIGHTINDENT = 30<br>   EXIT<br> END<br>* |
|---|---|---|
| 8.3.1.2 | Change Account and Run Any Form (8*158) | We have implemented a method to change the account and run a nominated form. This involves a call to DBI.G.DA to set the COMMON variable DBDEVACTIONS which is picked up in the new account. Up to 8 values may be passed in the call. If more data is required than DBSTORE may be preserved by a setting in System Parameters. DBDEVACTIONS can also hold the return account and form which can be invoked in the target form.<br><br>NB Modal forms may not be targeted in this fashion |
| 8.3.1.2 | Responsive Design Tables (8*159) | Change event implemented on Input fields. |
| 8.3.1.2 | File Properties file type dropdown disappears. (8*161) | The Universe file type dropdown is now re-built in the after read paragraph to fix this error. |
| 8.3.1.2 | PDF Conversion (8*162) | Some fonts do not scale correctly in the conversion tool. The report looks good in HTML but text may be truncated in the PDF.<br>A percentage scaling factor for the font size has been introduced to produce a DesignBaisPDF.css which is used for the PDF conversion. |

| 8.3.1.2 | Forms Designer Updating (8*166) | Validation for the Confirm Update now puts the current row Confirm Update on other update rows for the same button.<br><br>When the Update From Button changes it will use the Confirm Update value from any existing row for the same button.<br><br>The file update process looks for one Y in the confirm update list for a button before invoking the dialog box. |
|---------|--------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 8.3.1.2 | Auto Focus (8*167) | No auto-focus on any click event - stay where we are in the browser. No Auto-Focus if we have been told to move to a field via DBMOVETOFIELD. |
| 8.3.1.2 | MV Click Event on Process After (8*168) | Click Event on Process After with custom attribute 'readonly' will have a readonly <input> with a click event inserted into the grid. This allows the field to have event logic like the traditional Click Event on Process After but also receive data from a header process.<br><br>The click will fire the BUTTON event in BASIC code.<br><br>A header process returning a value will still fire a validation and read. |
| 8.3.1.2 | Variable Unassigned DBI.G.XMLNET (8*169) | Fix variable unassigned error - CASECONV = '' as ONCHANGE.TYPE not called in all cases. Also FIELD.ONBLUR = THIS.FIELD.ONBLUR before GOSUB SET.VALIDATION.TYPE in ADD.W3C.MV to be sure it is the correct value for the MV field. |
| 8.3.1.2 | Change of PROCESS.STACK in BEFORE DISPLAY (8*170) | Preserve DBFORM.STACK when PROCESS.STACK changes in BEFORE DISPLAY for stacking of modal forms. The base form was being lost. |
| 8.3.1.2 | Email Reports with DBMAIL (8*171) | Report orientation needed to be included for DBMAIL attachments. |

| 8.3.1.2 | HTML Encode Option for Report Fields (8*172) | Report fields have traditionally been HTML encoded apart from basic <b>, <u> & <i> tags.<br>With more complex HTML often required we have now implemented the option to allow<br>unencoded HTML in report fields as per normal forms. |
|---------|---------------------------------------------|------------------------------------------------------------|
| 8.3.1.2 | Allow refresh in View Record function (8*173) | Add B.REFRESH button to re-read the item being viewed. |
| 8.3.1.2 | Field Properties Generate Equates (8*174) | Fields with a group extract will now be included in the equates record generated. If a<br>field had been created in the equates file and subsequently a group extract added then<br>compile errors would occur when routines were recompiled. |
| 8.3.1.2 | Changing the sequence of form help fields (8*175) | When fields are moved up or down in the Form Help maintenance form then the 'Sequence<br>Form Help Fields by' is now automatically set to 'Form Help'. |
| 8.3.1.2 | Upgrade Routines (8*176) | A new Upgrade Option Notes field has been added to the Upgrade Routines. It is used to highlight particular points related to an Upgrade Routine. |
| 8.3.1.2 | New Upgrade Routine (8*177) | Upgrade Routine 26 checks that date fields with type input on forms have an xml label commencing with 'datepicks'. This allows the pop-up date picker to function correctly. |
| 8.3.1.2 | Test for BUTTON Class (8*178) | The test to distinguish link buttons from normal buttons has been made consistent. It now<br>does INDEX(uppercase class,'BUTTON',1) in all places. This means that BUTTON classes just<br>need to contain the word 'button' in any case and search labels must not. |

| 8.3.1.2 | Selection Process Styling (8*179) | When a select form or a report 'RUN.' form is built it will now take account of the style heights if the have been calculated. There is also a new 'Select Process Date Lookup' class on the style group for date fields in a Select Process.<br>The font and style heights can be calculated and applied to the styles via the Style Definition form 'Set Style Heights' button in the header. This should be run in a number of different browsers to find the maximum size as different browsers render fonts differently. |
|---------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8.3.1.2 | Add valid input list lookup for checkbox (8*180) | When adding a checkbox field to a form in DBIFORMS_D30 there is now a lookup to view and retrieve the value if true and value if false from the field property valid input list. |
| 8.3.1.2 | New Upgrade Routine (8*181) | Upgrade Routine 27 checks all Report RUN. forms and reports those that have the form description set from the report selection process rather than from the report definition.<br>The update option allows the description to be set to that of the report. |

**Fixes and Enhancements Previous Release 8.2.6.1**

| For Final Release No | Description | Full Description |
|----------------------|-------------|------------------|
| 8.2.6.1 | Unassigned Variable DBI.I.DBIFORMS (8*81) | RULE.MSGS was moved inside the IF where it was initialized. |
| 8.2.6.1 | Business Rules Test Button (8*82) | The Test button was selecting the entire file in order to display record ids that could be selected for the test. This select has been removed and the select now samples just 200 records. |
| 8.2.6.1 | DBI.P.ACCOUNT.SETUPNET - amend NEW.ONLY option (8*85) | The NEW.ONLY option now only checks for missing DBINET routines (not DBI routines). |
| 8.2.6.1 | Allow '/' in path to old styles in option 3 of Upgrade Routines (8*86) | |
| 8.2.6.1 | Move all demo forms from file DBCLIENT to DBDEMO (8*87) | All demo forms will now be based on a new file called DBDEMO in order to be able to preserve the demonstration environment within the DesignBais development account. |

| 8.2.6.1 | Copy Form function in Forms Designer (8*88) | The Copy Form function now defaults the Copy To Form Name to be the same as the Copy From Form Name. |
|---|---|---|
| 8.2.6.1 | Copy Report function (8*90) | When checking for an existing report in form D15 the code was referencing DBIR.FILENAME.WK instead of DBIR.FILENAME.TO.WK. This caused the error message 'The report name entered already exists as a form or report.' to display when in fact the report did not exist. |
| 8.2.6.1 | Unassigned Variable DBI.G.DETAILNET (8*91) | SAVE.REPORT.WIDTH = '' added for HighCharts to fix an assigned variable when saving the report data. OUTPUT.WIDTHS are not used for HighCharts. |
| 8.2.6.1 | Fix DBI.G.GET.ASSOC.FIELDS to reference DBISYS Files (8*92) | Read DBISYS file if either the file or field property for a DBI file is not present in the local DBIFILES or DBIPROP files. |
| 8.2.6.1 | Form Copy (8*93) | If the form being copied had a field with no field name then the copy function would loop. |
| 8.2.6.1 | Display Styles (8*94) | The width of column 3 had trailing spaces and hence became a non-numeric. |
| 8.2.6.1 | Express Reports (8*95) | When saving an Express Report DBPASS.DBVALUE.TO is used to pass the report description. A bug when the Cabinets Form was opened that used DBPASS.DBVALUE.TO incorrectly has been fixed. |
| 8.2.6.1 | DesignBais Control Items (8*97) | Remove <8> & <9> from FLAVS - defaults in FILES list which is on the same form but hidden. |
| 8.2.6.1 | DesignBais Upgrade Routines file open (8*98) | The Upgrade routine now opens all DesignBais files afresh before running any migration routines. This is to ensure that any change to file pointers in the account in which the upgrade is being run are heeded. |
| 8.2.6.1 | Drop Down IDs on DBISESSIONS (8*100) | Dropdown IDs were not unique when the same field name was used for different selections even from different file records. The form field position was added into the ID. IDs are now: SessionID . Level * FieldName * FieldPos * COMBO |
| 8.2.6.1 | Multivalue Group Names (8*101) | Dots in multivalue group names cause HTML errors. Discovered when the popup calendar would not appear for a grid field. |
| 8.2.6.1 | Duplicate Field (8*102) | A new Forms Designer button to duplicate a field. |
| 8.2.6.1 | DBI.P.ACCOUNT.SETUPNET (8*103) | Added file update messages to ensure we know what the routine has done. |
| 8.2.6.1 | UV Red Hat DBIHELPDESK (8*104) | The DBIFORMS file was corrupt - fixed. |
| 8.2.6.1 | Login Form (8*105) | Password fields changed from autocomplete='off' to autocomplete='new-password' |

| 8.2.6.1 | Style Definitions (8*106) | The font name becomes 'font-family' in the DesignBaisStyle.css. If the font name contains a space it is wrapped in double quotations. Font names may be separated by commas and instead of wrapping the whole string in quotes we now wrap based on the comma separator. Thus a font name of Arial,Helvetica,Times New Roman will now appear as Arial,Helvetica,'Times New Roman' rather than 'Arial,Helvetica,Times New Roman' which is incorrect. Any user entered double quotes are removed. If the font name is already wrapped in single quotes they are removed. Wrapping will happen if the font name contains characters other that alpha or hyphen. |
|---|---|---|
| 8.2.6.1 | Hit Stats (8*107) | Add 1 to offset the starting position after subtraction |
| 8.2.6.1 | Restart Connections (8*108) | We have added a post ajax function <restartConnections> to tell the web component to gracefully restart all pooled connections. This has been implemented in the code editor compile function to ensure that new program object is activated in a timely fashion.<br><br>DBPOSTAJAX='<restartConnections></restartConnections>' will reset all pooled connections.<br><br>A new common variable has been added DBIDCONNECT so that a particular pool may be restarted via DBPOSTAJAX='<restartConnection>':DBIDCONNECT:'</restartConnection>'.<br><br>A final function <recycle></recycle> will recycle the IIS Application Pool. Recycle should be used as a last resort as it will drop active connections immediately which may disrupt users.<br><br>In the application code these functions may be activated by setting the COMMON variable REFRESH.PARMS='reconnect' for <restartConnection>, REFRESH.PARMS='reconnectall' for <restartConnections> or REFRESH.PARMS='recycle' for <recycle>.<br><br>A new parameter has been added to System Parameters so that the editor will know which option to apply. |
| 8.2.6.1 | MVON# LOCATE Syntax (8*109) | Release 4.3 did not like the LOCATE function syntax - changed to newer format. |
| 8.2.6.1 | Highchart Title Tooltip (8*110) | Place tooltip text in OUTPUT.ATTR(nn)<44> for hover text on the chart title. The javascript \n can be used as a line break. |
| 8.2.6.1 | Uninitialised Variable (8*111) | Initialise SESSION.REC for the early return points from DBI.G.GET.XMLNET. |
| 8.2.6.1 | Multivalue Grid (8*112) | If the same attribute was used on multiple fields in the same MV grid than MV events would be applied multiple times. |
| 8.2.6.1 | Responsive Design (8*113) | The mod to include text items for the glossary disturbed the normal field extraction. |
| 8.2.6.1 | MV Output Field Click Event (8*114) | Do not update DBVALUE after a MV Click Event on MV Output field. The field was replaced with the one MV. |
| 8.2.6.1 | Forms Designer Test Mode (8*115) | Relaxed restriction on M31 running reports from Forms Designer Test mode. |
| 8.2.6.1 | Web Service Call (8*116) | Do not add a CDATA wrapping to the <wsData> node - causes grief if the data contains its own CDATA. |
| 8.2.6.1 | Suppress MV Grid Style Updates if IERR.TEXT (8*117) | During AFTER DISPLAY process a MV grid will not be built. However, undefined errors were occurring as the state of the grid fields was updated. This has been fixed. |

| 8.2.6.1 | Multivalue Export to Excel (8*118) | Option to convert MV to LineFeed - DBIF.SPREADSHEET.MV = 'L' - added to Report Designer field property 'Export action for Multi-values' |
|---------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 8.2.6.1 | Focus in RDMODE (8*119) | Cannot calculate next field for focus in RDMODE - no tab sequence, row, col, etc to use.<br>Fields may be randomly added to form link. Developer may use DBRETURN.TO.FIELD or allow the browser to control focus. |
| 8.2.6.1 | Field Properties Load Dictionaries Lock Table (8*120) | The new Checklist Load and Install process ensures that the DBIFILES record exists and invokes the Field Property functions to Load Dictionaries and Generate Equates. This uncovered a problem with the Load Dictionaries for files with a large number of dictionaries as READU locks on DBIPROP were not being released. |
| 8.2.6.1 | System Parameters for Meta Tags, Scripts and CSS. (8*121) | The Global General Parameter options have been made available for Specific Accounts in the System Parameters. The DBIPARMS items SCRIPTS, LINKS and META will over ride the DBIGLOBAL records. Available from the 'General' button on System Parameters. |
| 8.2.6.1 | RD Meta Tags (8*122) | The publishing routine now converts CHAR(13)+CHAR(10) received from the RD Designer in the Meta Tag XML to multivalue marks. The rendering reverses this change. Needed so that DBIFORMHTML items could be added to a checklist. CHAR(13)+CHAR(10) were getting converted to attribute marks and corrupting records. |
| 8.2.6.1 | OFR with No Header (8*123) | If OUTPUT.HEADERS(nn) is left empty then the number of attributes in OUTPUT.WIDTHS(nn) will determine the number of columns. If OUTPUT.WIDTHS(nn) is left blank the the columns are equally sized across the report. One or the other must be present. |
| 8.2.6.1 | MV Output Field (8*124) | MV output fields were being enabled in error. |
| 8.2.6.1 | MVON# CHECK.PROCESS (8*125) | Separate MVON# CHECK.PROCESS from UniVerse - This is the function that checks for cataloged programs. |
| 8.2.6.1 | Selection Sorting (8*126) | The introduction of Business Rules disturbed the EVENTSOURCE variable which stopped the sorting by column values in Selection Forms. |
| 8.2.6.1 | WRITELIST not Available in MVON# (8*127) | WRITELIST replaced with OPEN '&SAVEDLISTS&' and WRITE |
| 8.2.6.1 | eWAY Response Handling (8*128) | Improve eway tag handling - ignore <ewayResponse> & </ewayResponse> tags and allow for<br>'/>' end tags e.g. <ewayTrxnReference /> |

**Fixes and Enhancements Previous Release 8.1.1.15**

| For Final Release No | Description | Full Description |
|----------------------|-------------|------------------|
| 8.1.1.15 | DBIUSERLOG reports - provide access from Active Users (3*20) | Allow logging to be turned on and off even if the file is present. Provide purging. Allow user to define purge period and turn logging on /off |
| 8.1.1.15 | DBIUSERLOG Reports (3*44) | The file DBIUSERLOG exists and there are several reports based on it. Currently if the file DBIUSERLOG exists then it is opened and common variable DBIUSERLOG is set to true. BAWEBEXECNET then writes log records for all users. |

| 8.1.1.15 | Forms Designer Enhancements (8*27) | Multiple fields may now be selected in Forms Designer by using <ALT>+Click on a field to add the field to the list of selected fields. <ALT>+Click on two parts of the grid will select all fields in the nominated rectangle. The new Multi Fields button allows the selected fields to be moved (offset by the top left most field), placed in the same section, deleted, re-sized and aligned. Fields may not have a zero col span as they cannot be found in the designer - hide fields that do not need to be visible. |
|---|---|---|
| 8.1.1.15 | Disable Grid New Row, Add Row, Delete Row (8*28) | When a grid is disabled/enabled via DBSECTIONSPEC or via Forms Designer Section State then the New Row, Add Row and Delete Row, as well as the Row Header process, are now disabled/enabled. |
| 8.1.1.15 | Printform XLS function and blank space for collapsed section (8*29) | A text area should be one cell in Excel. MV & SVM replaced with a space for now. DBCOLLAPSELIST applied in DBI.G.PRINTFORM. |
| 8.1.1.15 | Checklist Load (8*30) | The check list process no longer includes DBI] items from DBIPROP, DBIFILES or the associated dictionary. These are available in the DBISYS... files or the dictionary in DBINET. |
| 8.1.1.15 | User Group deletion (8*32) | Deletion of a user group code is prevented if the user group is assigned to an eXpress report template. |
| 8.1.1.15 | User Group code validation (8*33) | User Group Code is now validated to prevent the use of a code that is already assigned to an eXpress Group. An eXpress Group is a collection of User Groups. When an eXpress report is assigned to an eXpress Group then users who are members of any of the user groups within this eXpress Group will have access to the report. |
| 8.1.1.15 | Development Checklist (8*34) | The Create a Checklist Update process now checks for missing items when creating a checklist transfer file. A message displays to advise of any missing items but the transfer file is still created. It obviously will not contain the missing items. |
| 8.1.1.15 | Layered Sub-form (8*35) | When invoking a sub-form as layered (~L option) the read variables are now reset to prevent the following error: Unable to locate the field [':TEST.FIELD.NAME:']. This is most likely due to a conflicting read. Please check your read group and record assignments to ensure that all are unique. You may need to dummy amend ':TFILE:' in File Properties to ensure all fields are correctly configured.' NOTE: DBWORK is now reset (cleared) when a form (whether a sub-form or not) is called using ~L. Applications that relied on DBWORK being populated and passed into a form called via ~L will need to be modified to pass DBWORK using DBSTORE. |
| 8.1.1.15 | Unassigned Variable in DBI.G.FOOTERMNET (8*36) | THIS.FORM.STATE = THIS.STATE.ORIG to fix variable unassigned |
| 8.1.1.15 | Cannot read the mv specifications for ... (8*37) | PROCESS.STACK with '~S' was trying to disable fields in the level below - fixed. |
| 8.1.1.15 | Decimal Rounding (8*38) | Testing indicated that OCONV((THIS.FIELD.ROW.SPAN / MM.CONV), 'MD10') is quicker than ((THIS.FIELD.ROW.SPAN / MM.CONV)) '1' and hence, the former was applied in the report routines that convert PX to MM. |
| 8.1.1.15 | Column Span Zero (8*39) | |

| | | | Hiding a field by making the column span zero also hides it in the Forms Designer. The validation has been tightened. Still allowed for images as the height can control the size. |
|---|---|---|---|
| 8.1.1.15 | Business Rule Checking (8*40) | | The list of form fields with business rules is read rather than reading the individual rule. This allows a locate rather than a read to see if a field has a rule. |
| 8.1.1.15 | Dialog Box Delimiters (8*41) | | DBDIALOG.TEXT now has AM, VM & SVM converted to the javascript \n to break text into separate lines. |
| 8.1.1.15 | Menu Rebuild (8*42) | | The Menu build process is relatively slow and should now only be run when the menu is changed. |
| 8.1.1.15 | DBI.G.PRINTFORM INPUT Length (8*43) | | INPUT field lengths are calculated as FIELD.COL.SPAN = INT((FIELD.COL.SPAN + 5) * 0.92) - not sure of the history but changing the standard approach will disturb application forms. This has been applied to DBI.G.PRINTFORM to stop field overlap. |
| 8.1.1.15 | Business Rule processing in DBI.G.MANDATORYNET (8*44) | | There is a loop through all fields on a form in order to establish the maximum number of mv rows in all grids on the form. This has already been done for field mandatory checks within this subroutine. Review and check whether the counts from the original pass for mandatory checking can be used for the business rule checking. |
| 8.1.1.15 | Layered Form Close (8*45) | | In some scenarios on close of a layered form the base form record could be re-read. The previous screen field read required flag PROCESS.FIELD.READGROUP is now cleared in the AFTERUNLOAD event when read controls for the closing form are cleared. |
| 8.1.1.15 | Date Format for Web Services (8*46) | | The date format logic was invoked before calling a web service subroutine in order to have the correct data format available. DBDATEFORMAT is set and the correct International or US date format applied. |
| 8.1.1.15 | Development Checklist enhancements (8*47) | | Developers can now load items into a checklist by specifying a custom file name and custom selection statement. This provides increased ease and flexibility to the task of specifying items to be transferred via a checklist from one environment to another. There is now a checkbox to allow developers to optionally have the names of subroutines that are called from forms and reports added to the checklist. The list of items on a checklist page can now be emailed to a recipient. |
| 8.1.1.15 | New Form to display Exclusive Locks for My User Only (8*48) | | There is a new form DBIUSERS*D65 to display the exclusive locks in all accounts for the logged in user only. It can be run from a button in the header bar of the Exclusive Locks form DBIUSERS*D60. |
| 8.1.1.15 | Glossary Maintenance changes (8*49) | | Glossary Maintenance now displays glossary entries in an on-form report rather than a mv grid in order to speed up the display. A Search Text option has been introduced to allow users to locate a text string within the glossary. The Where Used reference for field help text was using DBIPROP as the filename of the field property in all cases, rather than the actual filename. This error has been corrected. The Where Used display now allows the user to click on the row of the Where Used grid to open the appropriate maintenance form, such as Field Properties for help text glossary entries. |

| | | |
|---|---|---|
| 8.1.1.15 | PROCESS.STACK to Modal or Layered Forms (8*50) | If PROCESS.TYPE = 'R' (set when building an OFR) as the application was PROCESS.STACKing to a new modal form then the new layer was not invoked correctly. Fixed. |
| 8.1.1.15 | RD Glossary (8*51) | Glossary functionality added to Responsive Design Forms. As a form is published the text for labels, placeholders, tip text, help text and button text are now extracted and pushed into the Glossary as Screen Prompts ready for translations to be entered. When the form is first rendered the translation is applied if needed. Any preexisting pages will need to be republished in order to push the text into the Glossary. |
| 8.1.1.15 | Maintain association of grid fields not on the form (8*52) | RD forms were failing to maintain association of grid fields that are not on the form. This has been fixed. Ignore RD Button Fields included in the field list as buttons don't have an associated file and hence the associated attributes could not be found. Because the RD group name will not match the field association name DesignBais uses the group name of one of the fields to identify the association. |
| 8.1.1.15 | Backup Changed Items (8*53) | The list of files and items to backup or to exclude from the backup can now be copied from another account. |
| 8.1.1.15 | New Demo Form DBCLIENT*TABS (8*54) | This form demonstrates the use of an on-form report and styling to create a folder tab look. Clicking each tab opens up a set of fields related to that tab. Review the form and the basic code in order to learn how it can be done. |
| 8.1.1.15 | Disable OFR (8*55) | Disabling of an OFR is now working from Section Rules, DBSECTIONSPEC and DBENABLEFIELD. |
| 8.1.1.15 | User Log (8*56) | The DBIUSERLOG file if present in an account logs user activity. Controls have been introduced to switch this on or off for individual users, in the System Parameters (per database account) or in the Global General Parameters. Purging has also been added with each of the parameter being able to nominate the number of days to keep records. The default is 8 days.<br>DBIUSERLOG Reports are accessed from the Active Users form. |
| 8.1.1.15 | New fields on DBIUSERS reserved for use by developers (8*60) | There are ten attribute positions now available for application developers to use to store data on the DBIUSERS file. The fields are named DBIU.USER.DATA1 through DBIU.USER.DATA10 (attributes 101 to 110). |
| 8.1.1.15 | Purge (8*61) | Records keyed by SESSION.ID-FORMSLIST are now included in the daily purge. |
| 8.1.1.15 | HTML & RTF Editor (8*62) | The response from the web server now needs to be HTML decoded. |
| 8.1.1.15 | Enhancements Form Help display (8*63) | The Form Help display is triggered by clicking the '?' button in the label header of a form. The form help text display can now be enhanced using the HTML Editor which allows color and font and other styling features.<br>Use the Help Definition side menu option and select Form Help HTML to edit the form help for selected forms. |
| 8.1.1.15 | Selection Header (8*64) | Overflow is suppressed in an OFR by default. To override this white-space: normal and overflow-wrap: word-wrap can be added to the OFR cells where required. For a selection add the styles to the Report Header class of the style group. The extraction of the class name has been fixed which enables multiple lines of heading text in a selection. |

| 8.1.1.15 | Date on Modal Form (8*70) | If a date is the first field on a modal form when we focus on the field we use the showDatePicker javascript function. When an image click was also triggering the datepicker('show') function the calendar was flashing. We no longer send both functions after an image click. |
|---|---|---|
| 8.1.1.15 | PROCESS.STACK from MODAL RETURN (8*77) | Crash condition when a modal sub-form closed and the modal return process stacked a layered form has been corrected. |
| 8.1.1.15 | Select Conversion (8*78) | For UniData, OnWare, MVON# & OAS these will now be written as I-Types to match the porting process logic. |

**Fixes and Enhancements Previous Release 8.1.1.6**

| For Final Release No | Description | Full Description |
|---|---|---|
| 8.1.1.6 | Cache of Old Items (8*12) | The build number of the web version was added to css and javascript file references as query string parameter to prevent cache of old versions. |
| 8.1.1.6 | Move Checklist Page (8*13) | Now allows for the first page of the target checklist to be used as the destination page if that page has no rows. This allows a new checklist to be created with an empty page 1.<br>The move checklist page function then uses page 1 instead of skipping this page and creating page 2. |
| 8.1.1.6 | Entity Security (8*15) | The File Lookups have an option to apply entity security. This was not being obeyed but has now been rectified. |
| 8.1.1.6 | Entity Security Override List Display (8*16) | The list of forms in which entity security is to be overridden is now displayed for reference in the Entity Security maintenance form. |
| 8.1.1.6 | DBI.G.PRINTFORM (8*17) | Fixed PDF conversion issue. Added classes to improve the display. Fixed other display issues. |
| 8.1.1.6 | RD Publish (8*18) | When an element is moved out of a table the grid association is now removed from the Form Data Link record. |
| 8.1.1.6 | RD rdNavigate (8*19) | The new rdNavigate function in DBI.G.AJXCMD had a typing error in the variable F.DBIFORMS which caused a crash when the form argument was not on DBIFORMHTML. Lowercase was applied to the html form name before reading DBIFORMHTML. |
| 8.1.1.6 | DBCALLURL ;newTab (8*20) | New option will trigger a window.open which in most browsers will open a new tab with the new URL. |
| 8.1.1.6 | MV in Enquiry Mode (8*21) | Javascript errors were being triggered for MVs disabled in enquiry mode as the column counter was not being updated correctly. |
| 8.1.1.6 | Load Checklist Update (8*22) | Process amended to suppress the initial display of a previously extracted checklist update file. This avoids any confusion as to whether the current transfer file has been extracted or not. |
| 8.1.1.6 | New Select Field Name option (8*23) | When adding a field to a form there is a new Select Field Name button. This opens a form that permits the developer to enter a string. Field names containing that string are then displayed allowing selection of the field to add to the form. |
| 8.1.1.6 | DBI.G.PDFREPORT and DBI.G.EMAILREPORT (8*31) | PROCESS.EVENT needed to be changed as DBI.I.DBIPARMS used it before CONVERT.TO.PDF |

**Fixes and Enhancements Previous Release 8.1.1.2**

| For Final Release No | Description of Change | Full Description |
|---|---|---|
| | | |

| 8.1.1.2 | Filter display of expiry date from View Como. (8*6) | The View Como option was displaying the expiry date reasonably often. This is now filtered out. |
|---|---|---|
| 8.1.1.2 | Forms Designer Form Lookup (8*7) | The lookup was amended to ignore Responsive Design Forms. Unfortunately, the selection failed in D3. Issue now fixed. |
| 8.1.1.2 | RD Navigate (8*8) | A new Responsive Design function was added to the web component to fix an iOS issue and save a database hit when changing pages. The same function rdNavigate was added to the database functions in DBI.G.AJXCMD. |
| 8.1.1.2 | Button Action on Enter Key (8*9) | Button Action on Enter Key added to RD Form Data Link - turns out we needed it after all! |
| 8.1.1.2 | Data Link Test Button (8*10) | A test button was added to the Responsive Design Form Data Link. Changes must be saved before testing the page. |
| 8.1.1.2 | RD Auto Login (8*11) | Responsive Design forms utilize the Auto Login logic but no longer require the flag to be active. |

**Fixes and Enhancements Previous Release 8.1.1.1**

| For Final Release No | Checklist Reference | Full Description |
|---|---|---|
| 8.1.1.1 | Default Form Field Focus (8*1) | Hyperlink buttons now ignored in focus calculations. |
| 8.1.1.1 | DBMVCOUNT not reset in layered call (8*2) | When layering a form DBMVCOUNT was retained from the starting form causing more rows to |
| | | be displayed. |
| 8.1.1.1 | Checklist amended to add Business Rules (8*3) | When adding a form to a checklist Business Rules attached to the form are now added to |
| | | the checklist. |
| 8.1.1.1 | After Write Process (8*4) | The after write process was being called on a subsequent write that had no after write |
| | | process. |
| 8.1.1.1 | Report Selection Date First (8*5) | The popup calendar now displays under the date field in a report selection when the date |
| | | field is the first selection criteria. |
| 8.1.1.1 | New Feature | Responsive Design |

**Fixes and Enhancements Previous Release 7.5.1.17**

| For Final Release No | Checklist Reference | Full Description |
|---|---|---|
| 7.5.1.17 | Focus (2*262) | The focus calculations have been changed to ignore IMAGE fields and BUTTONs when the form |
| | | is invoked from the menu. DBRETURN.TO.FIELD will no longer be ignored when a form is |
| | | invoked from a menu. |
| 7.5.1.17 | Field Properties (2*267) | The D-Type option was originally creating V-Types for fields with a Group Extract or |
| | | specified multivalue position for UniData. It now creates I-Types for UniVerse. The |
| | | specified multivalue extract no longer replaces any Group Extract command. V-Types and |
| | | I-Types are now compiled when saved. |
| 7.5.1.17 | Phantom Tracking (2*268) | The Word Index build by phantom was not getting deleted on completion. Report phantom |
| | | status changes were not updated correctly. The start of PHANTOM_TRACK now writes a status |
| | | record of I (Initialising) before the PHANTOM is invoked. Once it is invoked, the status |
| | | is then updated with the PID and status S (Started) as soon as it is known. |
| 7.5.1.17 | D3 Runtime Errors (2*269) | DBI.G.MVW3CNET line 1500 Non-numeric - IF MVEVENTCHECK THEN now IF MVEVENTCHECK # '' THEN |
| 7.5.1.17 | MV grid not Saving (2*270) | If the confirm write and null after write options were set on a MV grid then the data was |
| | | being cleared when the confirmation dialog was displayed. This is now fixed. |
| 7.5.1.17 | MV grid with Read (2*271) | MV_INSERT, MV_DELETE & MV_ADD now call CHECK.KEY.PART to keep keys inline with the data. |
| 7.5.1.17 | Update Parameters (2*272) | The file operation parameters were not being passed when there was a confirmation dialog |
| | | - now fixed. |

| 7.5.1.17 | DERIVED Field Calculations (2*273) | Derived fields in MV grids were not calculating in Release 7. Where a parent field in the |
|---|---|---|
| | | same grid as the derived field changes then only in the changed rows will the derived |
| | | fields be recalculated. If a parent field is single valued or in another MV grid then all |
| | | rows of the grid containing the derived MV field will be recalculated. |
| 7.5.1.17 | Report Drilldown (2*274) | Keys containing HTML characters are now unencoded on return from the web server. This |
| | | caters for database keys containing '&' which were showing as '&amp;' |
| 7.5.1.17 | Single Field MV Grid (2*275) | MAX.VALUES in a single field grid was not set correctly after an error in the last row. |
| | | This is now fixed. |
| 7.5.1.17 | Report Settings (2*276) | Custom Report dimensions are treated as px by the Report Designer. These are now |
| | | converted to mm during report production. |
| | | Global Print Margins were over riding the "Left Margin Offset Override" for individual |
| | | reports. Any margin-left: in the Global print margins will now be changed to |
| | | 'margin-left: 0mm;' when the flag is set. |
| 7.5.1.17 | EOP Subroutine to Email Report Recipients (3*240) | New subroutine to email report recipients that works with DBMAIL. This allows reports to |
| | | be automatically emailed from EOP and other phantom processes. |
| 7.5.1.17 | DBPASS.DBVALUE $BLANK$ (3*241) | DBPASS.DBVALUE.TO was originally allowed to be an empty string and DesignBais would put |
| | | the DBPASS.DBVALUEs into the first INPUT or CHECK box fields on the form. A count of the |
| | | number of DBPASS.DBVALUEs drives the logic. In order to retain the original functionality |
| | | and allow the passing of an empty string to clear a field we have introduced |
| | | DBPASS.DBVALUE = '$BLANK$' |

**Fixes and Enhancements Previous Release 7.5.1.11**

| For Final Release No | Description | Full Description |
|---|---|---|
| 7.5.1.11 | DBSECTIONSPEC error when used with MV Grid (2*252) | Setting DBSECTIONSPEC to disable, hide or collapse for a multivalue grid caused the grid |
| | | to disappear. Collapsing works if the section Initial state is collapsed. |
| | | DBI.G.XMLNET builds DBCOLLAPSELIST which is used to control section collapse. |
| | | DBSECTIONSPEC = â€˜Câ€™ can then be applied. Problem fixed. |
| 7.5.1.11 | Section Rules Applied to MV Grids (2*254) | MV Grids that are disabled by section rules will now be correctly displayed and the |
| | | fields disabled. |
| 7.5.1.11 | Field Control + Enter Button (2*255) | The field 'change' event by-passed the 'keydown' event and the 'keydown' event only fired |
| | | for the Page Enter Key. |
| 7.5.1.11 | Forms Designer Testing Modals (2*256) | Fixed a problem that was closing test mode in forms designer when the form being tested |
| | | invoked a modal form and a button with the 'Close Modal Window' flag checked was clicked |
| | | in the modal form. |
| 7.5.1.11 | Checkbox State (2*259) | If a checkbox was reset during validation to its original state we now resend the checked |
| | | state to the browser. |
| 7.5.1.11 | First Field Focus (2*260) | When a form with no after display process is run from a menu the first field will now be |
| | | given focus. |
| 7.5.1.11 | Compare function now checks for lock before updating (2*261) | The Compare function now uses DBI.G.EXCLUSIVE to check for an exclusive lock on an item |
| | | before updating. |
| 7.5.1.11 | Help Display (2*264) | Added HTML encoding to display < & > enclosed text correctly. |
| 7.5.1.11 | V6 Read Processing Compatibility (3*238) | V6 in some circumstances sends the wrong EVENTSOURCE to the key field VALIDATE and |

| | | AFTER.READ processes. This was corrected in V7.5.1.1. However it was found that |
|---|---|---|
| | | correcting the issue causes some applications a problem by now invoking program logic |
| | | that was not invoked in V6. To allow applications to bypass the VALIDATE and AFTER.READ |
| | | we introduced a COMMON variable DBSUSPEND.AFTER.READ. This variable is initialised to 0 |
| | | each new database hit and can be set to 1 if the VALIDATE & AFTER.READ need to be |
| | | bypassed. |

**Fixes and Enhancements Previous Release 7.5.1.4**

| For Final Release No | Description | Full Description |
|---|---|---|
| 7.5.1.4 | Enquiry Mode Modal Return (2*253) | In enquiry mode, the write from button should remain disabled on return from a modal |
| | | form. |
| 7.5.1.4 | Access to Code Editor from basic code slots (3*110) | Convert the field text labels for process slots to be hyperlinks that allow direct access |
| | | to the code editor. |
| 7.5.1.4 | Upgrade routine to flag B.SEARCHDESIGNBAIS on Search forms (3*150) | Select all Search forms that do not have a value in the DBIF.ENTER.CONTROL (attr 164) |
| | | field, and have a button called B.SEARCHDESIGNBAIS, and add B.SEARCHDESIGNBAIS as the |
| | | Button Action to occur when Enter is pressed. |
| 7.5.1.4 | SB+ Conversion tool (3*190) | The SB+ Conversion tool has been enhanced to provide a file lookup and to allow the |
| | | converted form to be added to a SBCONV menu. The menu can be added to the system menus |
| | | thus allowing easy access to test converted forms. |
| 7.5.1.4 | Basic Code Skeleton (3*196) | New form DBIUSERS_D85 allows selection of events and the creation of basic skeleton code |
| | | to handle those events. |
| | | This form is called from DBI.G.CALL.EDITOR. |
| 7.5.1.4 | Loading selection process in a checklist (3*234) | When loading selection process in a checklist field property names referenced in the |
| | | append to sentence are now added as well. |

**Fixes and Enhancements Previous Release 7.5.1.1**

| 7.5.1.1 | File names which include the & character cause Code Editor crash (2*164) | Using Code Editor to edit items in file &TEMP&, for example, causes a DesignBais |
| | | Application Error. This has been fixed. |
| 7.5.1.1 | VM & SVM Conversions (2*232) | We now allow \n in data and hence needed to change the conversion of VM and SVM to HTML |
| | | char 13 when passing to and from the web component. |
| 7.5.1.1 | DBIGLOBAL DATE (2*233) | The date parameter now contains Excel conversion parameters as well as DBDATEFORMAT. The |
| | | read in BAWEBEXECNET has been fixed - the extra attributes were corrupting the Session |
| | | record. |
| 7.5.1.1 | MVCLICK Handling (2*234) | We stopped the updates of MV data on a MV Click event to improve performance. |
| | | Unfortunately, the MV data needs updating when passing the data to subsequent forms to |
| | | remove browser strings. |
| 7.5.1.1 | MV Submit Error (2*235) | The new Business Rules can validate on submit and may flag a data entry problem. We were |
| | | getting javascript errors when trying to return focus to a MV field. |
| 7.5.1.1 | Duplicate Tab (2*236) | Internet Explorer does not always provide a new session ID for a Duplicate Tab. To work |
| | | around this we no longer overwrite an existing session record during the start up hits to |
| | | the database. |
| 7.5.1.1 | DBOTHER.RECORD array dimensions (2*237) | Several field defintions in the Forms Designer contained a read variable dropdown list |
| | | that allowed selection of DBOTHER.RECORD(100) and above. |
| | | This has been corrected to allow only (1) through (99). |
| 7.5.1.1 | Duplicate Heading in Excel (2*238) | Two Pass reports were duplicating the column headings in the Excel file. |
| 7.5.1.1 | MV Grid Read (2*239) | Data was not being refreshed in a grid correctly. Data needed to be 'lowered' correctly. |
| 7.5.1.1 | Dialog Response (2*240) | DIALOGRESPONSE event now takes precedence after a predictive text search even though the |
| | | EVENTSOURCE may be 'tdxrDesignBaisdrop'. |
| 7.5.1.1 | Closing Modal Forms (2*241) | We do not process forms with no fields or with no Release 7 XML label containing a 'v'. |
| | | During the first pass to close a modal form the next form may not have had XML labels |
| | | applied and hence we did not close the level correctly. We displayed the new modal form |
| | | in the wrong level which caused the system to lock out the user. We no longer check the |
| | | XML label exists if we are closing a form. |
| 7.5.1.1 | Purge Process (2*243) | The purge process was not correctly identifying session related records and hence was not |
| | | purging correctly. |
| 7.5.1.1 | TAB in MV Grid (2*244) | The two events 'tabAddRow' and 'tabAddRowChange' are now treated the same so that values |
| | | are added to the record correctly. |
| 7.5.1.1 | MV Header Process (2*246) | This now works if a form is invoked with tilde options. |

| 7.5.1.1 | Process After with Read (2*247) | If a Form has been entered as the After Process on a field it will be ignored rather than |
|---|---|---|
| | | crashing if processing a READ. |
| 7.5.1.1 | Forms Designer Test with GLOBALHEADER Parameters (2*250) | If a form is included in the GLOBALHEADER record to not display the global header form |
| | | then this is obeyed by Run a Form but not by Forms Designer. Fixed by stripping the |
| | | '.DESIGNER' suffix from the form name. |
| 7.5.1.1 | Auto Login (2*251) | We needed to tighten the auto logon procedure. The WEBSERVER and ac value in the query |
| | | string of the previous session must match the values for the new session in order to pick |
| | | up the user for automatic logon. |
| 7.5.1.1 | Files Unavailable to Code Editor (3*32) | There is now the ability to tailor the list of files in the File dropdown for Code |
| | | Editor. use the hyperlink button in the lable header Files Unavailable to Code Editor. |
| | | Files in this list will not appear in the dropdown. It is recommended that obect files be |
| | | added to this list. |
| 7.5.1.1 | Allow Forms and Report Designer, and Selection Process to be called from a Process Slot (3*68) | The range of options for common variable DBDEVACTIONS has been expanded to allow the |
| | | developer to call the designer tools using PROCESS.STACK and to specify where control is |
| | | to return using DBDEVACTIONS. The MODAL RETURN event can then be used to set focus on the |
| | | original calling form. |
| 7.5.1.1 | Business Rules (3*181) | The concept of Business Rules has been implemented within Forms Designer. Rules can be |
| | | entered and maintained by users as well as developers. Rules apply to a selected field on |
| | | a form and can reference other fields on the same form. Rules are validated before any |
| | | after process field validation. If the rule fails validation then an error message is |
| | | displayed. The rule error message is dislayed using IERR.TEXT which means that normal |
| | | validation (after process) is not executed. |
| 7.5.1.1 | OpenQM Port (3*187) | DesignBais now available for OpenQM. |
| 7.5.1.1 | Search for specified string in menu records (3*189) | The new hyperlink button 'Find Menu Containing Specified String' can be used to find a |
| | | string within records in the DBIMENUS file. All menu records containing the string will |
| | | be listed. Clicking the 'Record Id' in column 2 of the display will load the selected |
| | | menu record into the Menu Definitions maintenance form. |
| | | Ensure that the 'Case' column in the Find String grid is set as required. To find all |
| | | occurrences of the string regardless of case select 'Upper, Lower, Text'. |
| 7.5.1.1 | Development Checklist - copy transfer file function (3*222) | There is now the ability to copy a transfer file to another account on the same server |
| | | providing the account path can be resolved. |
| 7.5.1.1 | Selection Form audit fields (3*223) | The form associated with a selection process is now updated with the user, date and time |

| | | in the DBIF.LAST.UPDATED.BY, DBIF.LAST.UPDATED.DATE and DBIF.LAST.UPDATED.TIME. These |
|---|---|---|
| | | audit details are displayed as part of the error message when the form is called up in |
| | | Forms Designer. |
| 7.5.1.1 | Authentication methods are now documented in the Reference Manual (3*228) | |
| 7.5.1.1 | Enhancement to Dialog Box function (3*232) | The Icon and Default Button options from Release 6 have been implemented in Release 7. |
| | | Changes in this release mean that the functionality of Dialog Boxes, using DBI.G.DIALOG, |
| | | that was implemented in Version 6 and earlier will now work again. |
| | | |

**Fixes and Enhancements Previous Release 7.4.1.3**

| | | |
|---|---|---|
| 7.4.1.3 | Excel Table (2*221) | 'None' option test error was producing an Excel Table with no styling. |
| | | Table now suppressed correctly. |
| 7.4.1.3 | Uppercase Conversion (2*222) | Uppercase Conversion added to keydown events where needed for MV grids. |
| 7.4.1.3 | Fields with Read Steps (2*223) | Fields with read step now invoke server hit. |
| 7.4.1.3 | Search Form Paging (2*224) | PageUp and PageDown buttons in a search form are working again. |
| 7.4.1.3 | Javascript Encoding of \n (2*225) | Data containing \n was getting converted to VM. The correct encoding as '\\n' is now in |
| | | place. |
| 7.4.1.3 | PROCESS.TYPE Corrupted (2*226) | PROCESS.TYPE is used during read processes. It was saved before the read but reset at the |
| | | wrong point and could disturb application report refresh processes. Should now work |
| | | correctly. |
| 7.4.1.3 | Tab Indexing (2*227) | We have improved the tabbing through a form. In some circumstances focus was lost and |
| | | hence it was difficult to see where you were on the form. Tabbing past the last field |
| | | should no return you to the first field correctly. Both the web and database components |
| | | need to be upgraded for this change. |
| 7.4.1.3 | Enter Key in MV (2*228) | Keydown event is checked for 'Enter Key action for Form' but reset as a change event when |
| | | necessary. Another flag MVXT needed to be cleared to allow normal change processing with |
| | | a read. |
| 7.4.1.3 | Auto Select One (2*229) | Auto selecting one record was leaving On Form Report Variables set. These are now cleared. |
| 7.4.1.3 | Base Form Field Update (2*231) | Before we open a modal form the base form fields need to be updated so that they are |
| | | available on return. The original logic only relied on the ~L & ~M flags in |
| | | PROCESS.STACK. We now also read the 'Form Modal' flag for the PROCESS.STACKed form. If we |

| | | are replacing the base form then we can by-pass the field updates as they will be lost as |
|---|---|---|
| | | the new form is loaded. |
| 7.4.1.3 | HIQPDF (3*197) | HIQPDF has been adopted as the default Report HTML to PDF conversion tool. HIQPDF allows |
| | | conversion of larger reports. |
| | | The original ABCPDF tool may be reactivated in the Global General Parameters if it is |
| | | preferred. |
| 7.4.1.3 | Extract Checklist Items for Analysis (3*211) | There is a new function in the Development Checlist tool. Extract Checklist Items for |
| | | Analysis allows the developer to extract all items from a checklist transfer file into an |
| | | on form report prior to loading the checklist update file into the target environment. |
| | | The report displays each item and flag those that match the item in the target |
| | | environment and those that do not match. Non-matching items can be displayed in the |
| | | compare form in order to allow the developer to assess what changes are about to be |
| | | released. |
| 7.4.1.3 | File Type in File Properties (3*212) | The file type can now be defined in the File Properties form. Up to now the only option |
| | | that could be selected was DATA. |
| | | This feature is currently only available when DesignBais is running on the Universe |
| | | database. |
| | | File Types of 1 thru 19, 25 and 30 can now be specified. |
| | | File type is used in the Checklist tool to determine what type of file to create and |
| | | whether items need to be compiled (file type 1 and 19). |
| 7.4.1.3 | On Form Report Page Controls (3*213) | Add tabindex to report 'Go To Page' control to allow tabbing into the input field. Also |
| | | add PageUp (Previous Page), PageDown (Next), End (Last) and Home (First) key controls. |
| 7.4.1.3 | DBADDFRAME (3*214) | The previously undocumented Frame Class and Frame z-index attributes of DBADDFRAME - |
| | | attribute 8 & 9 respectively - have now been made multivalued to keep them inline with |
| | | the other attributes of DBADDFRAME. The fact that DBADDFRAME can be multivalued was also |
| | | undocumented. We have catered for those that have used the frame class and frame z-index |
| | | as single values while adding more than one frame. |
| 7.4.1.3 | Upgrade routine 19 now checks for Previous Button overlap (3*215) | There was a problem in pre-Release 7 search forms where the page n/n text overlapped the |
| | | Previous button on Search Forms. This caused part of the button to not react to the mouse |
| | | click even though the entire button is displayed. This is fixed by running upgrade |
| | | routine 19. |
| 7.4.1.3 | File Properties dropdown select statements (3*218) | The result value for dropdown select statements is now refreshed after the read of a file |
| | | record. |

| | | | |
|---|---|---|---|
| 7.4.1.3 | File properties Refresh Result button (3*219) | A button now allows the developer to refresh all dropdowm selection results with one | |
| | | click. Invalid selection statements are highlighted. | |
| | | | |

**Fixes and Enhancements Previous Release 7.4.1.1**

| | | |
|---|---|---|
| 7.4.1.1 | jBASE size error when compiling DBI.G.LOGC (2*141) | DBI.G.LOGC is 465,666 bytes. Compilation failed on jBASE due size. For comparison BAWEBEXECNET is 407753 bytes and it compiled ok.<br>The subroutine has been split into 4 parts which are called from a small master subroutine. This has resolved the problem. |
| 7.4.1.1 | jBASE does not support I-TYPE dict item DBIB.ARCH.ID.FILE on DBIBACKUP (2*142) | Removing the object code from attribute 20 allowed DBIUNPACK to handle the item. This field property has been converted to an F-correlative which resolves the problem. |
| 7.4.1.1 | Selection process undefined javascript error (2*145) | In selection process using the Test Search button, and entering a row number on the 'Select Row' field, a javascript 'undefined' error displays:<br>At line:<br>document.getElementById('tdyspan7v2y1.2').focus()<br>Tested and the error no longer appears. Task finalised. |
| 7.4.1.1 | Display of disabled multivalue text area fields (2*161) | MV fields in grids or textareas do not take on the disabled appearance when they are disabled. Our standard dbaisInput class has a disabled property included:<br>} .dbaisInput:disabled { background-color: #E0E0E0<br>I have also noticed that a "disabled" MV field is marked as readonly rather than disabled. This allows text area fields to be scrollable. If you need these to be different use something like the below from<br>https://www.w3schools.com/cssref/sel_read-only.asp :<br>input:-moz-read-only { /* For Firefox */<br>    background-color: yellow;<br>}<br>input:read-only {<br>    background-color: yellow;<br>}<br>This issue has been fixed. |
| 7.4.1.1 | Form Copy or Field Property Advanced Copy error (2*165) | When copying a form and the field is changed to a field on a new file ensure that |
| | | FORMREC<53> (DBIF.FIELD.FILENAME) is amended to be the new file. This task has been |
| | | completed and finalised. |
| 7.4.1.1 | Forms Designer Fast button issue (2*166) | When selecting from the list of Last Field Properties created/modified in form D30F the |
| | | Filename field is not populated with the filename of the selected property. This problem |
| | | cannot be duplicated. Task finalised. |

| 7.4.1.1 | Date Popup Calendar from Basic code (2*167) | The popup calendar should be invoked in Basic code by setting PROCESS.STACK = |
|---------|----------------------------------------------|-------------------------------------------------------------------------------|
| | | DBI.G.CALENDAR. However only the string DBIPARMS_CALENDAR invokes the popup. |
| | | Could not duplicate. Task finalised. |
| 7.4.1.1 | Form Help omitted fields appearing as new fields (2*173) | Fields flagged to be omitted from the display of the help form are then appearing as new |
| | | fields on the display (ie have an asterisk in the New column). This has been fixed. |
| 7.4.1.1 | HighChart Percentage Display (2*180) | Rounding to one decimal has been fixed for pie chart mouse over event on each segment of |
| | | the pie chart. |
| 7.4.1.1 | Tabbing through MV grids (2*184) | At some point I got MV defaults working on each row, however when you tab into the last row with defaults, I now have no way of knowing that it is an empty row. This means that you can't tab out of the row but need to delete the row (or the defaulted fields) to tab to the next field on the form. |
| 7.4.1.1 | Form DBIHELP_FHB error when a stacked form is called with enquiry option (2*185) | Adding a button to a form in DBIHELP_FHB |
| | | There is a "Show Form" button which executes PROCESS.STACK = "File_Form~L~E". |
| | | In Forms Designer the "~E" causes DBOTHER.RECORD(2) to be cleared, such that when |
| | | clicking" Show Form" a second time the session crashes. This has been fixed. |
| 7.4.1.1 | Radio buttons not indicating state (2*187) | In designer the buttons get a dark dot to indicate which setting is on. |
| | | But no indicator appears when run as a form. Task finalised. |
| 7.4.1.1 | Report Designer export to XLS (2*188) | Printing a report allows the number of multivalues to be limited to say 1 row. But the |
| | | export does not obey this limit. All rows are exported. |
| | | Setting to "Leave as displayed" and having" Maximum Number of Multi-values to Print" set |
| | | to 1 causes only the first value to be displayed in Print Preview" values in position 2+ |
| | | are filtered out i.e. behaves as expected. |
| | | Fixed in this release. |
| 7.4.1.1 | DBENABLEFIELD for MV Output Fields (2*190) | Fixed the javascript errors thrown when hiding and displaying MV output fields using |
| | | DBENABLEFIELD. |
| 7.4.1.1 | Stacked Form Read Event Source (2*203) | When stacking a new form the PROCESS.EVENTSOURCE will now be set to the key field |
| | | triggering the read. It was retaining the event source from the base form. |
| 7.4.1.1 | Glossary Clearing IERR.TEXT (2*204) | Use PROCESS.ERROR or DBIGLOBAL flag after calls to DBI.G.DBSPECIFICNET to open the |
| | | DBIPARMS & DBIGLOBAL files in DBI.G.GLOSSARY. The file OPENs were added into |
| | | DBI.G.GLOSSARY so that it can be used from programs where COMMON has not been initialised |
| | | and DBI.G.OPENNET has not been called. |
| 7.4.1.1 | Purge Phantoms (2*205) | Phantom status logic fixed to enable purging of old records. |
| 7.4.1.1 | Date Picker (2*206) | Position of date picker corrected when it is the first field on a modal form. |

| 7.4.1.1 | Deletion of Cabinet reports not deleting all associated records (2*207) | Selecting reports for deletion from a cabinet drawer was not deleting all associated |
|---------|---------|---------|
| | | records. The problem has been fixed. |
| 7.4.1.1 | Report Export to Excel - Number of MV (2*208) | The export of reports to Excel now only includes the 'Maximum Numbers of Multivalues to |
| | | print' specified. |
| 7.4.1.1 | PROCESS.STACK (2*209) | Multivalues in PROCESS.STACK cause grief. |
| | | In a click or change event an INSERT(PROCESS.STACK was replaced with an assignment and in |
| | | the before display handler PROCESS.STACK = PROCESS.STACK<1,1> to be sure it is single |
| | | valued. |
| 7.4.1.1 | @EMAILPRINT issue (2*210) | Report data is HTML encoded, unfortunately space separated email addresses were then |
| | | separated by ' ' which caused the emailer to crash. Spaces removed from email |
| | | address component. |
| 7.4.1.1 | PROCESS.STACK Same Report (2*211) | When PROCESS.STACKing the same report from a MODAL RETURN event (for multiple debtor |
| | | codes for example) only the first report was executed. It now works correctly. |
| 7.4.1.1 | Report Designer - Email Pages to Recipients (2*212) | If emailing a report to recipients using the @EMAILPRINT option an error has been fixed |
| | | to prevent a user being able to amend the email preferences of other users. |
| 7.4.1.1 | Menu Enquiry Mode Typo (2*213) | Found and fixed a typo in the CHECK.ENQUIRY gosub of DBI.G.MG |
| 7.4.1.1 | Word Index Definition file selection in Field Properties (2*214) | The Field Properties field to allow the developer to specify the Word Index Definition |
| | | file that is to be used when selecting records based on a field has a dropdown selection |
| | | list of defined word index definitions. This selection list was empty due to an error. |
| | | This has now been fixed. |
| 7.4.1.1 | MV Scrolling in Enquiry Mode (2*215) | Internet Explorer suppresses scrolling when a <div> is disabled. |
| | | The MV <div id='mvO..'> is no longer disabled for forms in enquiry mode. |
| 7.4.1.1 | MV Lockdown Mode (2*216) | v6 DHTML logic replaced when disabling MV grid in lockdown mode. This logic not yet |
| | | implemented as MV fields may not be selected for lockdown. |
| 7.4.1.1 | MV Enter Key Event (2*217) | When changing a value in a grid then immediately pressing the Enter key, where the Enter |
| | | key triggered an event to save or close the form, the change was lost. Data will now be |
| | | stored during an <enter> keydown event in a multivalue. |
| 7.4.1.1 | Print Selected from Cabinet Drawer (2*218) | When selecting a report and clicking 'Print Selected' in a Cabinet Drawer the routine was |
| | | not extracting the number of blocks correctly. There was also a problem between reports |
| | | which prevented subsequent reports from being included in the browser output when |
| | | multiple jobs were selected. |
| 7.4.1.1 | Case Conversion Triggered Database Event (2*219) | A field with a browser function such as dbUpper or dbLower was triggering a database hit |

| | | with no event code handler. This resulted in the field being cleared. |
|---|---|---|
| 7.4.1.1 | Using Code Editor for file names containing ampersand (2*220) | There was a problem editing file and record names containing the ampersand character. |
| | | This has been fixed. |
| 7.4.1.1 | Phantom Report Tracking (3*208) | Pick up Report File and Form instead of the last screen. |
| | | Default of 7 days for DBIPARMS.REC<DBIPM.PHANTOM.DAYS>. |
| 7.4.1.1 | Excel Conversion (3*209) | The CSV to Excel conversion utility requires new properties. |
| | | Excel Culture - used to determine data to be converted to a date |
| | | Excel Table Format - used to put the data into an Excel Table |
| | | These have been added to User Maintenance, System Parameters & Global General Parameters |
| | | in line with Date Format which is required for the Excel conversion as well. |
| 7.4.1.1 | Purge Orphaned Cabinet Reports (3*210) | An additional upgrade routine, number 23, is provided to purge orphaned report records |
| | | from cabinet drawers. These orphaned records exist because of an error that is now fixed. |

**Fixes and Enhancements Previous Release 7.3.1.1**

**Checklist Release Report**                          Release No      **7.3.1.1**

**Button action to occur when Enter is pressed problem (2*139)**

Fields defined with an uppercase input conversion were not triggering the required button when enter is pressed. Example form: File Properties, File Name lookup. Now fixed.

**Report Designer Test Mode (2*186)**

Report size variable PS.EXTRACT now assigned correctly.

**Style CSS Rebuild (2*189)**

The changed method for building the css files introduced mutliple blank lines. This impacted the performance and could lead to a crash/timeout scenario.

**Designer CTRL+Click (2*191)**

Set focus on first field in properties form when CTRL+Click in designer

**MV Dropdown (2*192)**

Fix javascript error for MV dropdown by removing the .select() function.

**MV grid not dispayed in Enquiry Mode (2*193)**

Fixed a problem where a MV grid did not dispay in Enquiry Mode if the first field of the grid contained an OUTPUT field with a dropdown.

**Active Users User Summary report (2*194)**

On the designbais active users screen the 'user summary' was not working in Release 7. Now fixed.

**Allow the DesignBais javascript delimiter in data (2*195)**

Allow the javascript delimiter (";   ") in data by changing the encoding from ";   " to ";/   ".

**Disable Fields (2*196)**

Change so that fields in a lower level are only disabled when we have a PROCESS.STACK. The problem arose after a selection form returned the one value available in a MV grid header process.

**Forms Designer tool tip mouse over display (2*197)**

The tool tip mouse over reports the colspan as 5 more than the set value for input fields. There is a calculation to size elements for the browser — not sure of the history as follows (colspan + 5) * 0.92. The fix was simply to subtract the 5 when done.

**Glossary (2*198)**

Application phantoms calling DBI.G.GLOSSARY may not gave called DBI.G.INITVARIABLESNET & DBI.G.OPENNET. To compensate we now open DBIPARMS & DBIGLOBAL in order to handle the new

"Track Glossary" option.

## UV 11.3 Compile Message (2*200)

The output of a failed BASIC & failed CATALOG changed in 11.3. The code to strip blank lines from the end of the message was adjusted accordingly.

## dbformlayer1 Undefined Error (2*201)

Under some circumstances the above javascript error could occur. The base layer should be referenced as db1formlayer.

## Dropdowns Not Clearing (2*202)

File Lookup dropdowns will now clear after a WRITE of a new record.

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**Checklist Release Report**           Release No     **7.3.1.1**

### Forms Designer – Access to Code Editor from any Process type field (3*164)

Forms Designer now supports direct access to the Code Editor from fields that contain the name of a cataloged subroutine.

Clicking the hyperlink tag passes the name of the subroutine to the Code Editor. The file name is derived from the catalog entry.

If the field contains the code block indicator "C:" then clicking the hyperlink will open the code block editor.

If the field contains a select process then the Selection Process form is accessed.

### Editor Form (3*201)

Edit fields are now hidden if the user does not have access to the editor. Access is allowed in the Users form.

### Collapsing Section Overlap Warnings (3*202)

The overlap warning messages on every field update can make Forms Designer a bit cumbersome.

The warnings are now available from a button on the Section List form.

### Compile on Load option in Checklist Update (3*203)

There is now an option to specify basic code library files in a checklist update which allows basic routines to be compiled in the target environment by the Load a Checklist Update function.

### Default Basic Library File and Basic Code Style (3*204)

The DesignBais users file has been enhanced to allow developer type users to specify one or more Basic Library files and their Basic Code Style. These fields are hidden unless the Code Editor Access is enabled.

The first basic library file specified becomes the default file name when creating new skeleton subroutines.

The basic code style determines how basic code snippets are formatted for each user.

### Excel files now open in standard fashion (3*205)

In Internet Explorer, Chrome and Edge browsers XLS type files created from a DesignBais report are now opened in standard fashion.

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## Creation of basic subroutine skeleton (3*206)

Developers can access basic subroutines in Code Editor from within Forms Designer process slots by clicking the hyperlink text label in designer mode.

It is now possible to click the hyperlink when there is no defined subroutine name in the process slot. A new form (DBIUSERS*D85) is displayed that allows the developer to specify the name of a new subroutine, and to select any required event code snippets, and DesignBais will create the new subroutine skeleton.

The skeleton code that forms the basis of the particular subroutine can be set up in DBIPARMS in items called BASIC.SKELETON*weblogon (where weblogon is a particular user id) or BASIC.SKELETON which will be used if a version for the user does not exist. If neither of these items exists then DesignBais creates the skeleton by generating the code internally.

## Create New Subroutine & Insert Basic Code Segment (3*207)

Developers can now create new basic subroutines using skeleton code. Clicking on the hyperlink tag of a process slot such as "Process After" in Forms Designer, where the slot does not contain a value, will display a new form from which the developer can create a new subroutine.

**Fixes and Enhancements Previous Release 7.2.2.39**

| For Final Release No | | Page Description | Full Description |
|---|---|---|---|
| 7.2.2.39 | | DBREPORT.UPDATE for Hidden OFR Column (2*137) | DBREPORT.UPDATE sends javascript commands to the browser to update report cells without the need to rebuild the entire report. If an on-form report column has 0 width it is never rendered in the browser and hence any update commands for zero width columns were throwing errors. |
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| 7.2.2.39 | | Print Reports (2*138) | A bug which limited printed output to 5 pages was corrected. |
| 7.2.2.39 | | Single Quote in Dialog Text (2*140) | Single quotes in the dialog text are now escaped correctly for javascript. |
| 7.2.2.39 | | DBRETURN.TO.FIELD to a selected multivalue (2*143) | A javascript error displayed if an attempt was made to return to a multivalue position in a grid, using the DBRETURN.TO.FIELD = 'fieldname~\|n' structure, greater than the number of rows of that grid that were displayed on the form. This is now fixed. |
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| 7.2.2.39 | | Read lock error not displaying for multi-part keys (2*144) | When a record with a multi-part key was locked with an exclusive lock, and an attempt was made to read the same record in another browser tab, then the normal message: 'Unable to gain an exclusive read on the required record. The record is currently locked with exclusive access by [garb] at |
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| | | | [09:29:29] on [02 AUG 2018]' did not display. The problem has been fixed. |
| 7.2.2.39 | | Find String now uses DBIBACKUP (2*146) | Before string replacement an image of each record to be updated is backed up. There is now a check box to indicate that the DBIBACKUP file is to be used as the backup file. Otherwise the backup file will be 'RVBACKUP.':filename where filename is the name of the file being searched. |
| 7.2.2.39 | | jBASE File Selection Logic (2*147) | The LISTF output is disassembled to populate the file name dropdown in the Editor form. |
| 7.2.2.39 | | Control Enter in Designer (2*148) | Control Enter in Designer now functions like Control Click. DBI.G.DESPROPNET was crashing & has been removed. |
| 7.2.2.39 | | Calendar from MV Header Process (2*149) | Calendar now works correctly from a MV Header process. |
| 7.2.2.39 | | Modal Return PROCESS.STACK (2*150) | If PROCESS.STACK is set during MODAL RETURN to another modal form then do not process a new base form. |
| 7.2.2.39 | | Purging of user lock record (2*151) | The DesignBais purge routine has been modified to remove session id values from the DBISESSIONS 'L|weblogon' record. This corrects a problem where session ids that no longer exists on DBISESSIONS were left in the multivalued list in the lock record. |
| 7.2.2.39 | | Dialog Box defaults. (2*152) | Defaults for the new dialog box function were not included in the release account of DesignBais. This has been fixed. Dialog Box defaults are now distributed in DBISYSFORMS where they have record ids beginning with DBOX*. Developers can extract these items into DBIPARMS and amend them as required. |
| 7.2.2.39 | | DBIMAGESPEC now allows for error message if image missing. (2*153) | DBIMAGESPEC now provides 2 additional multivalued attributes associated with the image name to replace in <1> and the image name to use in <2>. Attribute 3 allows you to enter a title that will display when the mouse is positioned over the image. Attribute 4 allows you to enter an error message to display to indicate that the image to use cannot be found. These additional attributes were working on forms but not reports. This has now been fixed. |
| 7.2.2.39 | | Enter key press on report RUN. forms (2*154) | On normal forms, if data has been entered into a field but tab has not been pressed, and the enter key is pressed then the value in the field is retained, and then the button designated to be actioned by the enter key is clicked. On Report 'RUN.' forms this does not happen. The value in the selection field loses the data that is entered and the Run Report button is clicked, thereby executing the report with no selection data. |

| | | | Fixed. The field read use variable was being selected from the report form instead of the run form. DBUSAGEVAR now forced for 'RUN.' forms. |
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| 7.2.2.39 | | Modal Menu Process (2*155) | Fixed a menu issue when a side menu was expanded any options flagged as 'Modal Form' were creating a javascript undefined error as the id did not match the original menu id. |
| 7.2.2.39 | | Extract SYS File Records in Upgrade/Migration menu (2*156) | There was an error when copying style records that contain the name of the style itself.<br>The style id was correctly changed to incorporate the new style prefix but references within the Additional Properties to the style name were not converted to incorporate the new style prefix. This has been fixed. |
| 7.2.2.39 | | Popup Calendar not displaying if date field is the first field on the form (2*157) | When the System Parameters setting is to show popup calendar on focus and a form has a date field as the first field on the form then the popup calendar was not displaying when the form is initially displayed. Following any event such as a submit the calendar popup<br>does display. This has now been fixed. |
| 7.2.2.39 | | Lockdown Mode causing Invalid Option error fixed (2*158) | Testing Results: 14/09/18<br>Control Click is the way to select fields. It is meant to be applicable to Buttons and Input fields but only works for buttons.<br>Also does not work if the button is disabled. Only allows buttons to be selected for the Field Conditions. |
| 7.2.2.39 | | Firefox Printing (2*159) | -moz-transform: scale(,) added to the HTML for printing from Firefox.<br>The zoom/scaling factor is from the 'Browser Print Margins' or 'Users' parameters. |
| 7.2.2.39 | | OFR Column Rounding (2*160) | To fit the columns of an On Form Report into the allocated report width column widths are calculated as a fraction of the allocated width. This can lead to rounding errors where the total width of all columns is not equal to the allocated width. The difference is then distributed over all columns. Columns with 0 width are now skipped during this distribution process to avoid creating a column with a narrow width. |
| 7.2.2.39 | | Lockdown Mode Test error (2*163) | The test values for lockdown mode are in external format however the values in SCREENREC have been javascript escaped before returning to the web component.<br>This caused lockdown mode to fail for some values e.g. date delimiters of '/' become '\/' when javascript escaped.<br>Lockdown test values are now javascript escaped before matching with the value in SCREENREC. |
| 7.2.2.39 | | MV Collapsing Column (2*169) | MV Collapsing Column now works correctly - it was truncating the last column. The calculated column widths are used to change the MV grid container widths. |

| 7.2.2.39 | | Locking issue in Development Checklist fixed (2*170) | The DBI.I.DBICHK code for a new page starts at 0 and loops until a page does not exist. This meant a second user would pick up an error if the first had not saved the record. DBI.G.EXCLUSIVE was added to the loop to check non-existent records are not already locked. |
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| 7.2.2.39 | | Checkbox Values (2*171) | A checkbox must have different values for the true and false states if it is to be reset after a failed validation. This is now enforced in the Forms Designer properties form. |
| 7.2.2.39 | | Radio Button (2*172) | An undefined javascript error in a focus(), after a radio button failed validation due to an incorrect element id, has been fixed. |
| 7.2.2.39 | | Menu Calling URL Data Corruption (2*176) | The current form data was getting double javascript encoding and hence, say in System Parameters the logo db/dbLogo.jpg would end up as db\/dbLogo.jpg |
| 7.2.2.39 | | MV Input (2*177) | Input boxes within a MV grid had been 5px less than their containing cell - this has been changed back to 100%. The dbaisMandatory styles were aligned to the top of the cell - this has been removed. Unassigned variables MAND.FIELD, MAND.TEXT & FIELD.XML.NAME fixed in DBI.G.XMLNET. |
| 7.2.2.39 | | JBASE Phantoms (2*178) | The handling of PHANTOM_TRACK has been reworked for jBASE. It now uses EXECUTE 'z process' instead of EXECUTE 'jstart jpq ..\MD\process'. The process being executed must write the phantom process ID to the correct tracking record on DBISTATS. This lets the originating process know that the phantom has successfully started. The loop to wait for the phantom has been reduced from 20 sec to 10 sec. This affected the daily purge process, reports, upgrades and word index build processes. |
| 7.2.2.39 | | Form Field Focus (2*179) | This v7 feature was introduced in an attempt to prevent the browser from taking focus away from the form fields when tabbing. If there is a database process call on a field we will return a javascript focus() event to the next input field found. SHIFT+Tab has been added in this release along with better handling of multivalue grid movements. |
| 7.2.2.39 | | Forms Designer to flag button activated by Enter key (3*22) | Forms Designer enhanced to flag the button that is activated by Enter key. The DesignBais style BUTTONdbaisEnterKey is applied to the button. Developers may apply their own style by amending the form style group record. |
| 7.2.2.39 | | Backup (3*145) | New button - Compare to Next. Allows the developer to compare a backed up version of a routine to the following backed up |

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| | | | version. This enables a quick assessment of what changed between the two versions. |
| 7.2.2.39 | | Report Preview (3*146) | The report display area in the preview form is sized according to the paper size. The form is sized to fit in the browser window to prevent a browser scroll bar to view the bottom of the modal form. However this creates a vertical scrollbar on the modal form to view the bottom of the report.<br>A 'Fit Page' button has been added to scale the report display to fit within the form height and remove the vertical scroll bar.<br>A 'Full Size' button removes the scaling. |
| 7.2.2.39 | | DBDS Log restricted to Development users (3*151) | The ability to enable the DBDS Log feature has now been restricted to users who are members of the Developers group. |
| 7.2.2.39 | | Forms Designer display of form element properties (3*154) | Hover over a field will show details as per status bar (instead of needing to actually select each field). The status bar will still show the details of the selected field. |
| 7.2.2.39 | | Forms Designer default row span for MV fields not part of a grid (3*155) | Fields flagged as MV added outside of a Grid normally default to a field height of 58px for a textarea field. If the field is flagged as a dropdown or is changed to a dropdown then the height will be changed to 18. |
| 7.2.2.39 | | Forms Designer Label Header element (3*156) | A new button 'Create Label Header' allows the developer to set up a text label header form element. Col span is set to 100%. Row span is set to 30px. Display Class is set to Label Header. |
| 7.2.2.39 | | Code Editor form (3*157) | The Code Editor form now allows the user to suppress the creation of a dropdown list of items from the file to be edited. This is useful if the file contains large numbers of items. |
| 7.2.2.39 | | RUN Report Form (3*158) | The RUN. report form was using the report style group. This meant that the form looked slightly different from the normal forms.<br>A new 'RUN Form Style Group' field was added to the Report Designer to enable separate styling for the RUN. form. |
| 7.2.2.39 | | Search Form (3*159) | Select Row prompt moved down 5px to improve the look when Page Numbering is not selected. |
| 7.2.2.39 | | Enter key press on Report RUN. Forms (3*160) | The Report Designer now sets the Run Report button as the button to action when enter key is pressed. |
| 7.2.2.39 | | Forms Designer Field List sort options (3*161) | |

| | | | The Field List display in Forms Designer can now be sorted by clicking on the column header of the column that you wish to sort by. The available fields to sort by are:<br>DBIF.FIELD.PROPERTY - Field Property (TEXT, BUTTON etc)<br>DBIF.FIELD.NAME.LIST - Field Name from DBIPROP Ids<br>DBIF.FIELD.ATTR - Field Attribute value<br>DBIF.FIELD.AFTER - Field Process After (subroutine or a form name)<br>DBIF.FIELD.READ.USE.LIST - Read variable name (DBRECORD etc)<br>DBIF.FIELD.TEXT.LIST - Field Text<br>DBIF.FIELD.SECTION - Section Name |
|---|---|---|---|
| 7.2.2.39 | | Menu List button on Menu Definitions (3*162) | The Menu List button displays a list of available menus with their associated attributes. The menu options are not displayed. Use the Menu Name button to display each menu with its options. |
| 7.2.2.39 | | Generate Program Equates (3*165) | This function now checks for changes to the currently displayed field property and prompts the user to submit or clear before generating equates. This is because the DBIP.EQUATE.NAME is be updated, when equates are generated, by concatenating the file equate prefix to the field name to form the equate name.<br>When the Equates Prefix in File Properties is changed the user is prompted:<br>'Equates Prefix has been changed from XX to YY. Regenerate Program Equates?'. If the user selects Yes then the Equate Name for all field properties for the file is amended to remove the previous prefix and replace it with the new prefix.<br>Field Properties now refreshes the DBWORK value of Equates Prefix by re-reading it from DBIFILES after every field property read. This ensures that the Equates Prefix reflects the current value held on DBIFILES. |
| 7.2.2.39 | | End of Period (3*166) | End of Period enhanced to allow the original On or After Date entered by the user to be re-loaded. Clicking View Details now displays the End of Period Progress details as a layered form making it easier to review multiple jobs. |
| 7.2.2.39 | | Style Definition Additional Properties Report (3*167) | New report accessed from the header of the Style Definition form. The report lists the Additional Properties for all selected styles. There is a new selection process DBISTYLE_ADDPROP for this report. |
| 7.2.2.39 | | Load Dictionaries function now available on the File Properties form (3*168) | |
| 7.2.2.39 | | Allow D-Type Dictionary Items (3*172) | UniVerse EDA (External Data Access) requires D-Type dictionaries. An optional D-Type flag was added to Field Definitions to cater for this option. |

| For Final Release No | Page Description | Full Description |
|---|---|---|
| 7.2.2.39 | Uncompress MV Column (3*177) | DBENABLEFIELD option 'U' introduced to redisplay a MV column compressed or hidden by DBENABLEFIELD = 'C' or 'H'. The uncompress option will not affect the current readonly or disabled attributes of the column. |
| 7.2.2.39 | DBCALLURL (3*185) | URL calls to sites in the current web site will now always open in a new tab rather than a new window. Also 'www.DesignBais.com' calls will be directed to a new tab. |

**Fixes and Enhancements Previous Release 7.2.2.22**

| For Final Release No | Page Description | Full Description |
|---|---|---|
| 7.2.2.22 | WEBLOGON in a phantom process | DesignBais was running a phantom and invoking a COMO without setting WEBLOGON.<br>This caused an error which appears in the &PH& file (on Universe).<br>Example:<br>0001: You are in account DB.NET<br>0002: Started DBISESSIONS.MAIN<br>0003: Started Phantoms<br>0004: COMO completed. 09:27:00 08 JAN 2018<br>0005: Required file name missing from your command.<br>0006: Purge Complete<br>This has now been fixed so that a como is not invoked. |
| 7.2.2.22 | DBILICENCE must be in the same location as DBISTATS | This error message displays if the pointers to the files DBILICENCE and DBISTATS do not have exactly matching paths. |
| 7.2.2.22 | DBI.I.STARTPRINTNET - Print Selected | Variable previously undefined at lines 489 & 490 errors fixed. |
| 7.2.2.22 | BAWEBEXECNET non-numeric fixed | When referencing layered forms the layer calculation from the Event Source was producing a non-numeric error. |
|  |  | Non-numeric at line 1266 when extacting and setting DBWLEVEL. |
|  |  | This also fixes a WRITE crash in DBI.G.FOOTERMNET when writing MISCREC at line 1277. |
| 7.2.2.22 | Change in a field in an MV Grid not reflected in an associated DBWORK field | When a MV grid is set to disallow Add/Insert then a change to a grid field is not reflected in the display of an associated DBWORK field. Works fine if Add/Insert is set to Allowed. Fixed. |
| 7.2.2.22 | Web Service Calls | DBI.G.WEB.RESPONSE has been removed from the DBINET PROGRAMS list so that the application version is not over-cataloged by an upgrade.<br>The web services sub-routine has been parameterised in DBIGLOBAL in the 'WEBSERVICE' record so that DBI.G.WEB.RESPONSE may be replaced with an application subroutine.<br>The incoming query string is now set in DBW3CQSTRING. |

| | | IERR.TEXT is now wrapped as an error response. |
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| 7.2.2.22 | Onsystex NSELECT | NSELECT returns the record count in the errors attribute 2. |
| 7.2.2.22 | Report Designer Read File Dropdown | The select dropdown produced was including an end '/' which caused problems with Internet Explorer. |
| 7.2.2.22 | On Key Press Validation | When a 'Field After Process' is flagged as 'On Key Press' the system will now run the VALIDATION logic during the 'blur' event as focus leaves the field. |
| 7.2.2.22 | Purge Function | The purge was relying on the date a record was last created. This is not valid if the session is never logged out. |
| | | The purge has been change to check the active sessions list before deleting session related records. |
| | | This may leave redundant records in the sessions file temporarily if users do not logout correctly but they should get cleaned up once they drop off the active user list. |
| 7.2.2.22 | Report Link in Emails | The extract of the URL for report links now works for URLs that go directly to the site folder i.e. www.mysite.com/dbnet.aspx rather than www.mysite.com/dbnet/dbnet.aspx. |
| | | Either form will now work. |
| 7.2.2.22 | Web Service | Remove CR+LF from command line response. |
| 7.2.2.22 | MV Grid Change | The last column of the last row of a MV grid issues a tabAddRowChange event in order to trigger the addition of a new row. |
| | | If the grid did not allow rows to be added subsequent fields were not being refreshed correctly. |
| | | This has now been rectified. |
| 7.2.2.22 | DBSCROLLREPORT | Common variable to allow the placement of the scroll bar in an OFR. Basic code fixed to use correct report reference. |
| 7.2.2.22 | XLS Download | Process After Report added to provide a subroutine that will allow reformating of the xls file before it's written to a folder. |
| | | The TAB separated file will then be converted to a true xlsx file (available in 7.2.2.2). |
| 7.2.2.22 | jBASE CATALOG | CATALOG command now includes lib and bin path in the same directory as the file. |
| | | CATALOG -Llibpath -obinpath FILE.NAME PROGRAM.NAME |
| | | CATALOG and DECATALOG done by a phantom so that the current editor session does not go into limbo. |
| 7.2.2.22 | D3 Catalog | The default compile & catalog commands for D3 now include |
| | | NT_INV-FLASH for Windows and MVSP.REFRESH * for Linux/Unix. |
| | | MVSP.VERSION needs to be at least 1.8.9. |
| 7.2.2.22 | Exclusive Locks in this account moved to button | The Exclusive Locks option on the tools side menu has been changed to run the form showing all locks. The Locks in this Account menu option has been removed and replaced with a button on the main locks display form DBIUSERS_D60. |

| 7.2.2.22 | Find String in dictionary level. | The Find String function has been extended to allow for searching the dictionary level of a file. |
|---|---|---|
| 7.2.2.22 | Landscape Printing | Not all browsers have implemented @page size to automatically select the printer page orientation. |
| | | DesignBais will now rotate the HTML so that the default portrait alignment used at most sites will print correctly. Refer to the Reference Manual for more detailed description. |
| 7.2.2.22 | Auto Login | Auto Login will pick up the user currently associated with the browser by default. The browser user is updated when the active user list is checked. |
| | | There is now a method of flagging the 'Public Users with a Login Form' in System Parameters and Global Login Defaults. When a connection is started with one of these users Auto Login may be applied. This facilitates opening a tab as another user with an ac= querystring parameter. |
| 7.2.2.22 | @ID available for use in selects | The VOC entry @ID is now added to the VOC of DesignBais accounts if it is not present so that it is available for use in select statements. |
| 7.2.2.22 | Use of '&' in text in Report Designer | The use of '&' in the name of files used in Report Designer was causing an error when the file is used in the Read Group set up. This has been fixed with a change to the Web Component of DesignBais. |
| 7.2.2.22 | InternetExplorer Landscape Printing | New parameter -ms- zoom. This parameter only applies to Internet Explorer. Internet Explorer applies the default 'Enable Shrink to Fit' before landscape pages are rotated for printing. If 'Enable Shrink to Fit' is left checked then, before rotation, the page is shrunk to fit the page???s long margin to the portrait width. This leaves a small printed report. So the ???ms- zoom factor is applied to make the page larger before it is shrunk. |
| | | The page needs to be expanded by a percentage enlargement factor of around 160. |
| | | If 'Enable Shrink to Fit' is switched off by the user than this factor is not required. |
| | | The setting here is the Global Default which may be overwritten on the Users record by entering a value. |
| | | Entering zero in the Users record, as opposed to leaving a null value, will cause DesignBais to ignore the -ms- zoom setting altogether. |

**Fixes and Enhancements Previous Release 7.2.2.7**

| For Final Release No | Page Description | Full Description |
|---|---|---|
| 7.2.2.7 | Fix D-Type Dictionaries in Port | D3 doesn't like D-type dictionary items in a query statement. |
| 7.2.2.7 | jBASE DIGEST function | ENCRYPT function can also create a SHA-256 hash. Utilized in Compare index. |
| 7.2.2.7 | Editor Delete Record | DECATALOG function added to remove any associated program logic. |

| 7.2.2.7 | Asynchronous Mode Now Optional | DesignBais runs with asyncronous ajax calls by default as synchronous mode has been deprecated by the browser companies. However, you may choose to run in synchronous mode until the browsers in use drop support for synchronous mode. This setting may be inherited from the value in the Global Login Parameters. Hit Blocker modes will be ignored if synchronous calls have been selected. |
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| 7.2.2.7 | Web Component fixes / enhancements for Release V7.2.2.2101 | CHANGE: <a> tags are made tabbable (link buttons etc.) |
| | | POTENTIAL BUG: howLongHasItBeenSec = 500000 to howLongHasItBeenSec = 0 |
| | | POTENTIAL BUG: Disposing mail attachments and mail when done otherwise smtp locks attachments |
| | | CHANGE: EmailLog file name now has the computer name to distinguish the originating server (important behind an LB) |
| | | CODE IMPROVEMENT: Added DATACOMPErrors |
| | | CODE IMPROVEMENT: Tidied up 'All connections are busy' errors |
| | | CODE IMPROVEMENT: Missing xml HSTS and cryptoMode node errors fixed |
| | | NEW FEATURE: Added CSV TO XLS conversion |
| | | CODE IMPROVEMENT: Introduced GetBADataExec. GetBAData now calls GetBADataExec 10 times by sleeping 400msec if no connection is available. This is needed to deal with the contention when too few connections are available and closing multiple TABS sending unload messages simultaneously. This results in increase in IIS Queue but hoefully rare. |
| | | POTENTIAL BUG: Missing oApp.Unlock() added in GetBADataExec in few places |
| | | CODE IMPROVEMENT: Added error handling based on DATACOMPErrors values |
| | | CODE IMPROVEMENT: All platform connection methods reviewed to provide errors iaw  DATACOMPErrors |
| | | CODE IMPROVEMENT: CRASH and CRASH.TIMEOUT reporting provided for all platforms |
| 7.2.2.7 | A new setting called Timeout Action has been introduced. | May be set in System Parameters or Global Login Parameters. New Session is the default action. Logout will take the user to the logout form. Error Page will display the error message in the DesignBais default error page instead of the browser javascript alert box. System Parameters can inherit the Global setting. |

**Fixes and Enhancements Previous Release 7.2.2.2**

| For Final Release No | Page Description | Full Description |
|---|---|---|
| 7.2.2.2 | Style Sheet Update | The Style Sheet update sent to the web required the presence of a FONTFACE item if DBIGLOBAL was available on the system. |
| | | This requirement has been corrected. |
| 7.2.2.2 | OnWare Issues | LOCATE did not use start position correctly. Now fixed. |

| | | DBI.G.DETAILNET DBDROPLISTADD logic adjusted. |
|---|---|---|
| | | DIGEST function is now available and is implemented in DBI.I.COMP. |
| 7.2.2.2 | Data Component Focus | The data base was not allowing focus on a button after a server hit unless specifically set by DBRETURN.TO.FIELD. |
| | | This has been relaxed so that the focus will obey the tab index for buttons as per normal fields. |
| 7.2.2.2 | Textarea Select | Internet Explorer was throwing an undefined error following the javascript command document.getElementById('textarea..').select(); and Chrome did not select the data in the textarea. |
| | | The select command was removed for textareas. |
| 7.2.2.2 | Remove Value Not Working | The REMOVE statement was extracting by accent character instead of attribute marks. |
| | | REMOVE was replaced with a dynamic array extract of attribute 1 followed by delete of attribute 1. |
| 7.2.2.2 | Meta tag for UTF-8 | Incorporate meta tag for UTF-8 into reports. |
| 7.2.2.2 | DBTIMER change | Setting DBTIMER in basic code will now always kill the previous timer. |
| 7.2.2.2 | Google Two Pass Authentication | A new COMMON variable DBQRAUTH has been introduced to control user registration with Google by displaying a QR Barcode Image and to confirm the validation of PIN entry. |
| | | See the user manual for full documentation. |
| 7.2.2.2 | Find String Conjunct Search - Line option | There is now the ability to search just the lines found in a Find String search rather than the entire record containing the lines. This allows the user to search for a string that is associated with another string. |
| | | For example an initial search for the 'FIELD' string would be expected to return a large number of items within a Basic Library file. It is then possible to select the Conjunct Search Line option to find say '|' and thereby return a list of lines that contain both 'FIELD' and '|'. Previously a search for both these strings, without the conjunct option, would return lines that contain just 'FIELD' or just '|', meaning that many more hits would be displayed. |
| 7.2.2.2 | jBASE port now available | |
| 7.2.2.2 | Display Common Variables from a button on a form | Add a button named B.DBICOMMON with a process after of DBI.G.BUTTON. |

**Fixes and Enhancements Previous Release 7.2.1.2**

| 7.2.1.2 | Development Checklist | Clicking a value in the 'Item' list on form DBICHK_A10 allows a direct call to the Code Editor for a subroutine, or to the associated maintenance form for other items. |
|---|---|---|
| 7.2.1.2 | DBVERSION is now set in DBI.G.INITVARIABLESNET | DBI.P.DBIREPORTSNET and DBI.P.EOPNET both call DBI.G.INITVARIABLESNET in Release 7 which sets DBVERSION, meaning that DBVERSION is available in phantom processes. |
| 7.2.1.2 | Read Field cannot be flagged as Mandatory - reversal | This change has been re-engineered. A read field can be flagged as mandatory in Forms Designer. The web component has been changed to issue the field is mandatory message and re-instate the previous value in the read field thus preserving the integrity of the displayed data. In the past the read field was left null after the mandatory error, but other fields from the read using the previous key remained displayed. |

**Fixes and Enhancements Previous Release 7.2.1.1**

| For Final Releas No | Page Description | Full Description |
|---|---|---|
| 7.2.1.1 | Check Key Part | The 'Check Key Part' code is necessary in the 'afterunload' event handling logic to be sure that record key values are set correctly. |
| | | The problem was noticed on the return from a modal sub form when a new record was to be displayed in the original form. |
| | | For example, the 'Field Properties' form button 'Copy Field'. |
| 7.2.1.1 | End of Period naming report cabinet drawer | The name of the cabinet drawer appears as a comma (,) in the Available Drawers list in the eXpress Cabinets menu option. Fixed. |
| 7.2.1.1 | Set focus in Forms Designer | DBDESIGNER.SELECT.ITEM is reset in the AFTER.READ in DBI.I.DBIFORMS for form DBIFORMS_D10. |
| | | This prevents a new form jumping to a point in the form corresponding to the element that has the first tab index. |
| 7.2.1.1 | Return to following field on error | When an error is encountered, and IERR.TEXT is set, focus should return to the field with the error. This happens correctly when the mouse is used after the field value is entered but before tab is pressed. |
| | | If tab is pressed then focus moves to the next field before the error displays, then the error displays. After clicking OK to the error focus remains on the next field. |
| | | This behaviour can be seen in Selection Process. Enter a filename, then enter a formname of 'RUN.', then press tab. |
| | | This problem is fixed in this release. |
| 7.2.1.1 | Entity Definition deletion | The Entity Definition deletion process has been amended to delete the definition from the DBSENTITY list on DBIPARMS. |
| 7.2.1.1 | Record Locks | DBI.G.EXCLUSIVE and DBI.READ.STORE had inconsistencies. DBI.G.EXCLUSIVE no longer converts '/' to '\' nor changes text to UPPERCASE. Paths are as returned by DBI.G.DBSPECIFIC. We can now release locks because they will match when we LOCATE. After an error in any READ in a readgroup we now: Clear the keys (DBKEY, DBKEYS(nnn)) ; Clear the read variables (DBRECORD, DBOTHER.RECORD); Clear original locks and any new locks; clear DBVALUE; Clear DBRETURN.SAVE (the hidden trick to Clear the field you were in); Set DBRETURN.TO.FIELD to return to the EVENTFROM field. |
| 7.2.1.1 | Select OFR Rows | Row height is now calculated from the Font in use in the Report Body style if it has been calculated. We recommend using FireFox to do font calculations in the Style Maintenance form as it seems to render the font slightly larger than other browsers. |
| 7.2.1.1 | Copy User record | When a user record on DBIUSERS is copied the Date of Last Change is set to the current date, the Time of Last Change is set to the current time and the |

| | | Change By Who is set to the User Id of the session that copies the record. Prior to Release 7 these fields retained the value that existed on the record being copied. |
|---|---|---|
| 7.2.1.1 | Upgrade routines Option 12 | Upgrades Option 12 (Fix Form Tab Index where Index exceeds 995) has been extended to include a check for erroneous values in the Section Initial State and Section State fields on DBIFORMS. In some instances it has been noted that the code 'ENABLE' has been set to 'ENABLED' causing a problem with field tab sequences. The upgrade routine will report any instances of this and will correct them in the upgrade update run. |
| 7.2.1.1 | Form Depth Calculation | Output multivalue fields overflow the designated field depth. |
| | | The calculated form depth has been amended to allow for this sort of field in order to avoid an internal scroll bar on a small form. |
| 7.2.1.1 | Exclusive lock on Selection Process | When unable to gain an exclusive lock focus was returning to the field following the Selection Name. Now fixed. |
| 7.2.1.1 | DBPASS.DBVALUE fixed | DBPASS.DBVALUE (with DBPASS.DBVALUE.TO) was failing to work in cases where its value was amended in a successive process call. Now fixed. |
| 7.2.1.1 | Forms Designer | Forms Designer now prevents access to forms if you do not have the default glossary. In the past you were warned but allowed into the designer only to have your mods discarded when the form was submitted. |
| 7.2.1.1 | Word Index Search | The routine DBI.G.GET.DBFINDEX has been amended to use the REMOVE command in the search loop, resulting in a significant speed improvement. |
| 7.2.1.1 | Header Process not Passing DBVALUE to New Form | DBI.G.UDBVALUENET changed to allow field updates when ORIGINAL.SCREENROOT # SCREENROOT |
| 7.2.1.1 | Menu Group Access | Reset DBMVCOUNT going to DBIMENUS*D12 and on return to DBIMENUS*D10 to avoid browser undefined error. |
| 7.2.1.1 | Menu Redisplay | When a side menu is revisited it will be re-displayed in the same state as it was left i.e. any expanded sub-menus will display as expanded. |
| 7.2.1.1 | Links in Internet Explorer | Disabling and Enabling <a> links is now working in I.E. The disabled property for cross-browser mode has been removed. |
| 7.2.1.1 | Multivalue Change Event | Fixed an issue with PROCESS.STACK handling from a multivalue VALIDATE event. |
| 7.2.1.1 | Report Designer | Fixed problem with Report Designer. Checking the option 'Do not display run window' caused form DBIPARMS_M31 to drop into Forms Designer when testing a report. |
| 7.2.1.1 | Form Height Calculation | For OUTPUT multivalued textarea fields the row span is calculated by the the number of <br> in the text * 18px. We now only use the calculated depth if it is greater than allocated row span. |
| | | This was a problem if the OUTPUT textarea was the last field on the modal form. |

| 7.2.1.1 | Unload Event After Browser Closed | Browser is now removed after the browser is closed via X. |
|---|---|---|
| 7.2.1.1 | F1 help display causes focus to jump to the next field | This problem has been fixed. |
| 7.2.1.1 | Report Click Process | DBPASS.DBVALUE was being cleared before the target form was presented. This is fixed. |
| 7.2.1.1 | Read Event Process Stack | When read events (before, field validation, after) are processed DBPASS.DBVALUE may be required in the current form. If, however, PROCESS.STACK has been set then DBPASS.DBVALUE is now processed against the new form. |
| 7.2.1.1 | Multivalue Refresh | The multivalues in a base form are now updated when a modal form is opened via PROCESS.STACK. |
| 7.2.1.1 | Change DBDESIGNER.SELECT.ITEM delimiter | DBDESIGNER.SELECT.ITEM was using underscore ('_') as the delimiter. The delimiter has been changed to pipe ('|') character since the probability of image names containing an underscore is high. The underscore in the image name caused problems. |
| 7.2.1.1 | Mouse Events | Logic fixed for buttons in the Mouse Events in Mouse Control located in the Section Control form in Forms Designer. |
| 7.2.1.1 | D3 Report Paging | Report files are built in 5 page blocks. The page break '<div' has been changed to '<DIV' as D3 was treating them as case insensitive and the page breaks were not located correctly. |
| | | The affect was that in the Page Control preview screen Page 1 contained 5 pages with lots of scrolling while pages 2,3,4 & 5 were blank. |
| 7.2.1.1 | Printing issues. | The DesignBaisPrint.css now has @font-face at the start of the file only, before @media print. |
| | | DesignBais Release 7 converts the DesignBais V6 'page-break-after:always' in saved cabinet reports to the same structure as for Release 7. This ensures that the page break functions correctly for V6 reports printed using Release 7. |
| 7.2.1.1 | Handling apostrophes in URL and file names | The DBCALLURL and the uploadWindow functions have been modified to encode a single apostrophe. This allows, for example, a url to contain a name like 'O'Brien'. |
| 7.2.1.1 | Field Properties Input Case conversion | Upper and lower case conversion, defined in the field properties, is now processed correctly. |
| 7.2.1.1 | Forms Designer leaving locks set | Forms Designer was leaving exclusive locks set under some circumstances. Now fixed. |
| 7.2.1.1 | Highchart Captions | Highchart captions are now derived from OUTPUT.ATTR(n)<3> rather than using the Axis Title - OUTPUT.ATTR(n)<21>. |
| 7.2.1.1 | DesignBais Menu Definitions provides access to called menus | If focus is on a grid row that references another menu then clicking the Process to Run hyperlink allows the referenced menu to be maintained or |

| | | viewed in a layered Menu Definition form. On closing the layered Menu Definition window, focus returns to the original menu record. |
|---|---|---|
| 7.2.1.1 | Copy Style Group | Lookup now available for items on the System File DBISYSFORMS to enable a copy of the DesignBais standard items to use as a template. |
| 7.2.1.1 | Additional display fields on Forms Designer selection process | When selecting a form in Forms Designer the selection process now displays the Preserve Common and Sub Form settings. |
| 7.2.1.1 | Recent Items Lists | Forms Designer, Report Designer, Selection Process Tools, and Run a Form, now keep a list of the last 10 items accessed by a user. |
| 7.2.1.1 | Copy Form enhancement | The Copy Form function in Forms Designer has been enhanced. When copying a form to a different file field properties on the source form will be created (if they do not exist) on the target file with the target file equate prefix. The fields on the target form can be filtered such that only those selected by the user from the source form will be added to the target form. |
| 7.2.1.1 | Users Developer Preference | This feature has been removed as of this release (7.1.3.1). The forms and report designers now have a new look button set and there is no longer an option to use the 'Pre version 5 Designer' which used a side menu for the grid options. |
| 7.2.1.1 | Change to Selection Process | DBI.G.MODIFY.SEARCHNET has been amended to utilise DBI.G.DYNAMIC.FORMNET to add 2 new fields (Valid Input and associated Description) such that the form FIELD associations for all fields is maintained. |
| 7.2.1.1 | New Report Table Class in Style Group | There is a new class in the Style Group definition to control the appearance of an on-form report row on mouse hover. The default class in Release 7 is dbaisReportTable. The characteristics of on-form report row mouseover appearance can be modified by either removing the class from the Report Table Class field on the style group used for a particular on-form report, or by substituting another class name, or by using the DBREPORTTABLECLASS common variable in your basic code when the report is built. DBREPORTTABLECLASS has 2 attributes, multi-valued, where attribute 1 is the field name of the report field on a form and attribute 2 is either blank (to remove the mouseover effect), or contains an alternative class (Style) id. |
| 7.2.1.1 | Report Designer displays the report Field count | The number of fields on the report is displayed on the front screen of the Report Designer. The maximum number of fields allowed on a report is 600. |
| 7.2.1.1 | User Logging Report | A button 'Users with Logging' has been added to the header of the User Maintenance form. Clicking this link displays an on-form report of all users with 'Turn Logging On' set. |
| 7.2.1.1 | Report Designer BRK. prefix validation | Report Designer now validates the field name that is added to a report to exclude a field commencing with 'BRK.' This prefix is reserved for use by DesignBais report break fields. |
| 7.2.1.1 | Remove EXPRESS menu from Express Reporting Forms | The Express Reports menu is displayed by the DBIFORMS_EXPRESS form. The menu remains in place until a form with a different menu is displayed. Therefore the explicit side menu setting of EXPRESS has been removed from forms DBIPARMS M10, M20 and M30. |

| 7.2.1.1 | Login Form | The DBIGLOBAL D20 login form has been amended to remove the server hit from the User field. Validation is now done after the OK button is clicked. |
|---|---|---|
| 7.2.1.1 | New Field Properties Advanced Copy function. | The Copy Field function in Field Properties now has an Advanced Copy feature that allows fields to be copied to a new file with the equates prefix of the new file. |
| 7.2.1.1 | F1 field help display is now context sensitive | The help is now displayed above the field if there is not enough space below. If there is not enough space in either direction then it's displayed below. The help is hidden when (amongst other actions like click, keypress etc.) the mouse is moved out of the help text display rectangle. |
| 7.2.1.1 | DBDS Log | There is now an option to turn on, per user, a function to save a log of all DBDS and IERR.TEXT output. See the button 'DBDS Log' on the Code Editor form. |
| 7.2.1.1 | Find String function | The Find String button on the Code Editor form provides a means of searching for multiple strings in any file. A 'Conjunct Search' feature has been added which allows for the results of a search to be used as the starting point for the next search, thus allowing for the conjunction of two or more searches. |
| 7.2.1.1 | Compare function | There is now a 'Compare' button on the Code Editor form. This opens a form that provides for a comparison of an item from a specified file with an item from the same or another file. The item that is opened in the 'Item to Update' field can be updated with the differences as displayed by the compare. |
| 7.2.1.1 | BEFORE DISPLAY event | The BEFORE DISPLAY event has been improved to allow for PROCESS.STACK to be used in this event in the same way as in other events. It is now therefore possible to 'process.stack' to a form (say filename_FORM1) and then 'process.stack' to another form from the BEFORE DISPLAY event of FORM1. In this contrived example FORM1 would never display. |
| 7.2.1.1 | Printing cabinet reports generated by Version 6 | DesignBais Release 7 will correctly interpret page breaks from reports generated in Version 6 of DesignBais, stored in cabinets. |
| 7.2.1.1 | Additional feature for DBRETURN.TO.FIELD | The common variable DBRETURN.TO.FIELD can now be assigned a value of 'DBNOFOCUS'. This has the effect of allowing focus to be controlled by the browser, following a server hit. |
| 7.2.1.1 | Find String function enhancement | The Find String function has been enhanced to allow direct access to the associated maintenance form for items listed in the display of located strings. If the search is on the DBISELECT file then clicking on a located string will display the item in the DBISELECT_D10 Selection Process maintenance form. Similarly for DBIUSERS, DBISTYLE, DBISTYLEGROUP, DBICHK (Checklists), DBIMENUS, DBIPROP (Field Properties). |
| 7.2.1.1 | New Dialog Box | There is now a second method of creating a dialog box in DesignBais. This will overcome the slight loss of functionality in the current dialog box within Release 7. The new dialog box function is accessed from the System Parameters from a button labelled 'Dialog Setup'. |
| 7.2.1.1 | Preservation of DBSTORE | By default DBSTORE is cleared at login and after a change of database account. If set to Yes the Preserve DBSTORE option in System Parameters will attempt to restore DBSTORE values after an initial logon or change of |

| | | account. If multiple sessions files are in use then, for this option to work, they must be shared across accounts and listed in the same order. |
|---|---|---|
| 7.2.1.1 | Browser refresh | Log in is no longer required after a browser refresh providing the refresh occurs within the session timeout period. |
| 7.2.1.1 | Custom Fonts | Custom Font Families, for use in Style Definitions, can now be defined in the Custom Fonts menu option under Global Parameters. The links are held on the DBIGLOBAL file in an item with id 'FONTFACE'. |
| 7.2.1.1 | Read refresh | The refresh of common after a 'bad' read has been improved. When a field with a read successfully executes it may trigger multiple other reads. If the key in this field is modified and the subsequent read fails, or if the key is set to null, then DesignBais now cascades through all the triggered reads and clears the associated common variables. This ensures that there is no cross-contamination of records due to some variables remaining populated after a bad read. |
| 7.2.1.1 | Timeout Message suppression | There is now an option to suppress the Timeout Message at both Global and System Parameters level. |
| 7.2.1.1 | On-form report row highlight | The style called 'Report Table Class' in Style Groups is used as the default class for the On Form Report Data Table. It is used to highlight a row on hover. May also be set by the common variable DBREPORTTABLECLASS. |
| 7.2.1.1 | Page breaks in Report Designer | It is no longer necessary to have a Header Section in a report to allow page breaks. |
| 7.2.1.1 | New Form Help feature | In the Help Definition menu option there is a new function to create form help for a form. This permits review and maintenance of F1 help for all fields on the form, as well as a method of providing help for buttons. Help can be displayed on a form from a standard button named 'B.DBIFORMHELP' with an Process After of DBI.G.BUTTON. |
| 7.2.1.1 | Changes to the tools menu | Upgrade routines and options have been moved from the Global Parameters menu to the re-named 'Upgrade/Migration Tools' menu. This is a more logical location. There are some other minor changes to menus. |
| 7.2.1.1 | Mandatory field may not have Change Event Will Fire On Loss of Focus | A field flagged as mandatory cannot also have Change Event Will Fire On Loss of Focus. Forms Designer will prevent this. This is because this combination sets up a loop from which there is no exit. |
| 7.2.1.1 | Read Field cannot be flagged as Mandatory | An input field with a read cannot be flagged as Mandatory. Forms Designer will prevent this. This is because the Mandatory check by the browser prevents the correct action to clear all associated read variables in the event of a failed read. The mandatory property can be enforced by the set up of the read. |
| 7.2.1.1 | Changes to the server hit 'spinner' | The spinner was being displayed in the centre of the window.  Now it's being displayed in the centre of the form. The spinner was not hidden when a message was displayed. It is now hidden on message display. |

| 7.2.1.1 | Do not update the Glossary when in Forms Designer test mode | Change completed. (Original Issue 251) |
|---------|-------------------------------------------------------------|----------------------------------------|
| 7.2.1.1 | Mandatory Field Check | Browser will now check the mandatory flag for text fields. |
| 7.2.1.1 | Colors Added to Pie Charts | Highchart pie charts can now be colored. Colors are multivalued in OUTPUT.ATTR(REPORT.SUBSCRIPT)<4>. |
| 7.2.1.1 | Relax requirement for login when opening a subsequent tab | Users requested that opening a new tab in existing browser should not force entry through the Login Form. |

**Fixes and Enhancements Previous Release 7.1.2.33**

| For Final Release No | Page Description | Full Description |
|----------------------|------------------|------------------|
| 7.1.2.33 | DesignBais error 'Default login form not found' implications for other tabs | When several browser tabs are open in DesignBais and another tab encounters an error such as DesignBais Initialisation Error then it appears that all open DesignBais tabs need to be closed. |
| | | Attempting to 'Logout' each tab causes the tab to refresh rather than react to the specific command. |
| | | This problem has been fixed. |
| 7.1.2.33 | Word Index Definition using a program for the index | There should be some validation when the index definition record is configured and, rather than an OPEN error. There is now a test on the data in the definition e.g. IF ACTUAL.INDEX.FILE = '' AND DBFINDEXDEFN.REC<DBFX.SUBROUTINE.NOINDEX>#'' THEN RETURN |
| | | Refer DBINET DBI.G.DBFINDEX lines 77ff open of 'ACTUAL.INDEX.FILE' |
| 7.1.2.33 | General Parameters Links, Scripts & Meta Fields | The fields were not converting the attribute delimited record to sub values for the form fields. |
| | | After read amended. |
| 7.1.2.33 | Fast Form Last 20 Fields | The 'Last Field Properties created / modified' was not working correctly. |
| | | DBWORK<DBIF.SELECT.FILE.INPUT.NAME.WK> needed to be set before the On Form Report list was constructed. |
| | | Field Name lookup also added. |
| 7.1.2.33 | Key Press Searches | Unassigned variable suppressed the display of the lookup for D3. |
| | | Fixed. |
| 7.1.2.33 | Button Initial State | Buttons now have the initial section state of disabled applied correctly. |

| 7.1.2.33 | Bug fix in DBI.G.RESIZE | The variable HEADER.WIDTH is now initialised to 0. |
|---|---|---|
| 7.1.2.33 | Restriction on using RUN. as a report or selection name | It is no longer possible to create or maintain a report or a selection where the name commences with 'RUN.' |
| | | DesignBais creates a form for every report with the name formed by concatenating 'RUN.' to the report name. This new restriction removes the problem of DesignBais generated names clashing with names assigned by developers. |
| 7.1.2.33 | Changes to arguments for DBI.G.SENDEMAIL | EMAIL.CC<2> becomes <bcc> |
| | | EMAIL.FROM<2> becomes <sender> |
| | | |
| | | DesignBais expects a relative virtual path OR an absolute physical path in EMAIL.ATTACHMENT. |
| | | Example: |
| | | RELATIVE VIRTUAL PATH |
| | | For a web site URL of http://myhost/db |
| | | and a file stored on the web server as c:\db\myfiles\myattachment.txt |
| | | the relative path to that file would be : 'myfiles/myattachment.txt' |
| | | ABSOLUTE PHYSICAL PATH |
| | | c:\db\myfiles\myattachment.txt |
| 7.1.2.33 | Forms Designer collapsing section warnings | Currently there is a warning when a collapsing section is not contiguous. |
| | | The warning message has been simplified to read: |
| | | 'Field' in section 'section' spans section 'section1' |
| | | And/or |
| | | 'mvgroup' in section 'section' spans section 'section1' |
| 7.1.2.33 | D3 Case Sensitivity | D3 was matching 'mv' to 'MV' and was falsely identifying fields starting with 'MV' as multivalue events. |
| | | CASING ON added to BAWEBEXECNET for D3 to turn on case sensitivity. |
| 7.1.2.33 | Editor access to Large Items | Editor did not handle large items (> 2000000 characters) as DB was not breaking the record into smaller blocks. |
| | | Restriction removed from DBI.G.DBIFOOTERNET |
| 7.1.2.33 | Amazon SNS | DesignBais now supports Amazon Simple Notification Service. |

**Fixes and Enhancements Previous Release 7.1.2.26**

| For Final Release No | Page Description | Full Description |
|---|---|---|
| 7.1.2.26 | Error when deleting Entity Security Definition | The name of the entity security definition, and associated fields, are not removed from the list of entity names for a file, held on the DBIFILES record. Fixed. |
| 7.1.2.26 | Entity Security failing to correctly determine access. | Amend DBI.G.SECURITY.LIST to correct entity security checking. |
| 7.1.2.26 | Entity Security Defined Members Access Report bug fix. | In the case where a member has 'All Users' access defined but there are no group or user access levels are defined then the member key was omitted from the report. |
| 7.1.2.26 | Entity Security Definition | Entity Security was denying access to a found-in file that contained the key of a parent file that was flagged as 'Access Denied'. But Entity Security did not prevent the same user from maintaining the record with that key on the parent file. Now fixed. |
| 7.1.2.26 | Fix DBI.G.SECURITY.LIST used in DBI.G.MINI.REPORTNET | This routine is used to provide entity security for express reports. It was failing to apply entity security for express report fields that are not on the 'parent' file. |
| 7.1.2.26 | DBI.G.SORT.ONFORMREPORT | DBI.G.SORT.ONFORMREPORT uses <1,-1> not LOCATE when setting PROCESS.REFRESH. This has been fixed. The PROCESS.TYPE is set to 'RS' (report sort). If paging is active than set page size is set after sorting. |
| 7.1.2.26 | Process Forms with No Fields | Forms with no fields may be valid to update menus. Only exit if XML labels have not been applied and there is a field. |
| 7.1.2.26 | Unassigned Variable in Express | DECIMALS variable was not being set when the field DBIF.FIELD.DECIMALS on DBIPROP is empty. The subsequent test of DECIMALS # '' then failed. |
| 7.1.2.26 | Express reports maintenance fixed. | Checking the box to remove a saved express report caused the report to be deleted regardless of the response to the dialog: 'Are you sure you wish to remove this template?'. |
| 7.1.2.26 | User Group Start Accounts/Form | If the user has no Account and Start Form in the user record then the Accounts and Start Form fields in the User Group are now referenced when a user logs in to DesignBais. |
|  |  | You must ensure that, for user records which do not specify any start form, there is a User Group assigned to those users. |
| 7.1.2.26 | Express Reporting Fields | When DBIFILES list of field properties is updated via a dummy amend of any field property the DBIFILES field DBIFI.MINI.LIST and associated attributes are also refreshed. |
| 7.1.2.26 | Devise a method to put focus on a particular cell of a report. | Where an on form report has a vertical scroll bar and the report has been scrolled, then a cell is clicked and some action such as a modal form is invoked, focus is returned to the on form report and with the click cell visible, when the modal form is closed. |
| 7.1.2.26 | TestHarness Data Component Connection Testing Tool | The message returned has been amended to remove the reference to the licencing filter. It now confirms that 'DesignBais data component connection established'. |
| 7.1.2.26 | Express Reports | Increase row span of column header from 18 to 36 in the report to allow for column header text wrapping to a second line. |
| 7.1.2.26 | OFR Page Controls | Paging can be added to an OFR by setting the page size (number of rows) in the associated PROCESS.REFRESH<2> multivalue. Eg PROCESS.REFRESH<1,2> = 'R.REPORT' PROCESS.REFRESH<2,2> = 50 |

**Fixes and Enhancements Previous Release 7.1.2.23**

| For Final Release No | Page Description | Full Description |
|---|---|---|
| 7.1.2.23 | BEFORE DISPLAY | Setting PROCESS.STACK in the 'BEFORE DISPLAY' event was not working. |
| 7.1.2.23 | Subroutine Driven Word Index Definition | Error message removed on file open to allow subroutine to do indexing. |
| 7.1.2.23 | Multipart Keys - exclusive lock not released when key part changes | Multipart Key Reads may be triggered by different EVENTFROM's for each key part.<br><br>Reset exclusive locks for different keys when using the same read variable, same screenroot, same layer and same filename. |
| 7.1.2.23 | Flag DBIU.USER.NAMES.WK property on DBIUSERS as Work | DBIU.USER.NAMES.WK is used as a work variable but the Work Flag was not set. |
| 7.1.2.23 | Undefined errors in Review Basic Library form. | Undefined XML errors sometimes displayed when searching for a string without defining a replacement string. Now fixed. |
| 7.1.2.23 | DBICHK default LAST.RELEASE | Keep a parameter DBICHK.LAST.RELEASE on DBIPARMS after clicking the Create Release button on DBICHK*A10.<br>Use it as the default for DBICHK*A12 field Patch to Release No. |
| 7.1.2.23 | Web Config to include dbnetuser rather than dotnetdev | The user id 'dotnetdev' has been removed from the DesignBais release zip files. The default user id is now 'dbnetuser'. |
| 7.1.2.23 | Code Editor argument for account name as well as File and Record Id. | DBCALLURL= 'codeEditor.aspx?fil=FILENAME&rec=ITEMID' is currently available. A parameter for account name is now available '&acc='. It is not mandatory. If not supplied the current account is assumed. |
| 7.1.2.23 | Set Start Account button on User Maintenance | A new 'Set Start Account' button has been added to the top of the User Maintenance form. It provides the ability to update multiple user records with a set of changes or additions to the Start Account and Start Form settings. |
| 7.1.2.23 | User Maintenance - Set Start Account | The 'Set Start Account' button at the top of the User Maintenance form provides the ability to update multiple user record Start Account and Start Form settings. |
| 7.1.2.23 | User Maintenance - Display Start Account List | A new button on the User Maintenance form to display the full list of Start Account details for a user, with the ability to sort and delete entries. This feature will be particularly useful for user records with a long list of Start Accounts. Up to now it has been difficult to review the list in the small grid window. |
| 7.1.2.23 | DBIFILES updating | Submitting a DBIFILES record builds lists of all field properties relating to the file and stores these on the DBIFILES record. This function has been amended for DBIFILES records for DesignBais files themselves - that is for files with a name commencing with 'DBI'. |

| | | For DBI files the DBISYSPROP file is now accessed and any records that exist on the DBISYSPROP file, but not on the local DBIPROP file, are included in the field list. All records that exist on both DBISYSPROP and DBIPROP, normally all records should be only in DBISYSPROP, are compared and those with differences are saved in the field DBIFI.NON.MATCH.SYSPROP. |
|---|---|---|
| | | A new button on the File Properties Maintenance form 'Display DBISYSPROP Differences' displays the list of differences. |
| | | Fields that only exist in the local DBIPROP file will be present if the application requires new functionality based on DBI type files, such as DBIUSERS say. In this case all DBISYSPROP records may be copied into DBIPROP. When DesignBais is upgraded the new DBISYSPROP file may contain additional items not present on the local DBIPROP file, and in addition some existing fields may have been amended. |
| | | The new function in the DBIFILES update brings all the fields from both DBISYSPROP and DBIPROP together and flags those that are different to allow the developer to review them. |
| 7.1.2.23 | New subroutine to fold text to a specified length | Developers can call DBI.G.FOLD.TXT(TEXT,FOLD.LEN) to fold text to a specified length. |
| | | TEXT contains the text to be folded. It can be attribute or value mark delimited and can contain sub value marks. |
| | | FOLD.LEN is an integer defining the required length of each line. The text will break on the space character that occurs before, and closest to, the defined line length. |
| | | The folded text is passed back as a multivalue string in TEXT. |

**Fixes and Enhancements Previous Release 7.1.2.13**

| For Final Release No | Page Description | Full Description |
|---|---|---|
| 7.1.2.13 | Tab index sequence is not obeyed when field triggers server hit. | Focus should move to the next field as indicated by the tab index. When a field has no process after but triggers a server hit due to a Section Condition or a Derived Parent then focus was not being set. |
| 7.1.2.13 | Error when inserting a row in a MV Grid with a DesignBais read on one column. | In a MV Grid the data is held as multivalues. Attributes of the read record are converted to subvalues within the row multivalue. Display of line items was not always correct. Now fixed. |

| 7.1.2.13 | DBREPORTLIST causes base report to be omitted. | DBI.P.DBIREPORTSNET amended to print the base report as well as the list of reports specified in DBREPORTLIST. |
|---|---|---|
| 7.1.2.13 | Extract SYS file records creates the item with wrong key | When extracting a form such as DBIUSERS*D80 from DBISYSFORMS the extracted record is written to the target file with a key of D80 rather than the full key. Now fixed. |
| 7.1.2.13 | Multivalue Form elements now have justification override. | Multivalue Form elements up to now have derived field justification from the field type (left for alpha and right for numeric). Form D180 now has the same options as normal input fields: 'Default from Field Type', 'Left', 'Right' and 'Center'. |
| 7.1.2.13 | Properties by Attribute selection process improvements | Add 'Field Multivalued' to the list of displayed fields. |
| 7.1.2.13 | Selection Process Form changes | Increased the depth of the multivalue grid 'Fields to Display'. Increased length of fields for process event source names. |

**Fixes and Enhancements Previous Release 7.1.2.10**

| For Final Release No | Page Description | Full Description |
|---|---|---|
| 7.1.2.10 | Check Key Part. Change to BAWEBEXECNET was removed. | Changes applied in 7.1.2.9:<br>  Do not continue loop if error has been found.<br>  Do not "Check Key Part" in afterunload.<br><br>Changes applied in 7.1.2.10:<br>The "Check Key Part" code is necessary in the "afterunload" event handling logic to be sure that record key values are set correctly.<br><br>The problem was noticed on the return from a modal sub form when a new record was to be displayed in the original form.<br><br>For example, the "Field Properties" form button "Copy Field". |

**Fixes and Enhancements Previous Release 7.1.2.9**

| For Final Release No | Page Description | Full Description |
|---|---|---|
| 7.1.2.9 | Port DesignBais to Linux | This release provides a version to run on Universe on Linux. Universe 11.3 or later required for full functionality. |

| 7.1.2.9 | System Parameters form amended to allow multiple Submit of changes | The message 'The record has changed since it was originally retrieved' displays when the Submit button is clicked again after a change has been made. Now DBRECORD is refreshed so that further changes can be made without clicking the menu option again. |
| --- | --- | --- |
| 7.1.2.9 | Style Definition - copy style form now provides lookup of System Styles | |
| 7.1.2.9 | Review Basic Library case sensitive search | In the Strings to Locate the option to search for upper and lower or text case was not working. Now fixed. Multiple occurrences of a string in a record were not being reported due to corruption of the string variable. Now fixed. |
| 7.1.2.9 | Check Key Part | Do not continue loop if error has been found. Do not check key part if after unload. |
| 7.1.2.9 | Focus after Before Field | Do not set focus after a before field event |
| 7.1.2.9 | Adjust position of frame for DBADDFRAME | The row and column positions of the frame are relative to the form like any other form element. |
| 7.1.2.9 | Click Event on Process After | When Click Event on Process After is set on a MV grid the click event is putting the value in the clicked row into the next column, in the row corresponding to the attribute of the value in the clicked row. Now fixed. |

**Fixes and Enhancements Previous Release 7.1.2.1**

| For Final Release No | Page Description | Full Description |
| --- | --- | --- |
| 7.1.2.1 | Amend Checklist Page selection | Display Date transferred and For Release No fields. |
| | | Checklist Page selection is now filtered to show items not yet transferred. |
| | | A new All Checklist Pages selection button added to allow retrieval of items previously transferred. |
| 7.1.2.1 | ORIGINAL.SCREENROOT does not retain the ~ options | When calling a form with ~L option for example then ORIGINAL.SCREENROOT should retain the ~ options. This is not happening in Release 7. |
| | | Fixed in Release 7. Developers must in AFTER DISPLAY event since it will not retain the extra parameters after this point. |
| 7.1.2.1 | Codeblock Update | DBI.G.GET.REC.XMLNET needed to check DBISYSPROP as well as DBIPROP for MV and DECIMALS updates. |
| 7.1.2.1 | MV grid updates | Fixed a problem where MVs were not being updated without a validation event when the value changed to an empty string. |
| 7.1.2.1 | OnWare Selection Conversion Dictionaries | Selection Conversion dictionaries created incorrectly. Treated as D or I types when they were A types. |
| 7.1.2.1 | OnWare Process Tracking | Implement phantom tracking and hit tracking for OnWare. |
| 7.1.2.1 | Connections Exceeded | Allow Active User form access in the same way as Licences Exceeded. |

| 7.1.2.1 | Phantom and Hit Status OFR Sorting | OFR column sort fixed for Date & Time columns. |
|---|---|---|
| 7.1.2.1 | D3 logoff Added for CRASH processing | If the web server detects an error we can now logoff the connection process automatically. |
| 7.1.2.1 | D3 Licencing Error | Fixed issue with licencing. |
| 7.1.2.1 | Unassigned variable in DBI.G.OPENNET | Resolved F.PROCESS.FILENAME may be unassigned when DBI.G.OPENNET is called. Detected in D3 during initial hits to the database. |
| 7.1.2.1 | Express Report Variables Unassigned | Read report record from F.DBEXPRESSFILE to pick up paper size and orientation. |
| | | Initialise ROW & COL when refreshing report from non-REPORT events. |
| 7.1.2.1 | Suppress Focus after Click | Focus on the next field in the tab sequence will only be sent after Tab or Enter keys. |
| | | This allows clicking into any field out of sequence. |
| 7.1.2.1 | Access to Active Users after licence limit exceeded error | Allow access to the Active Users form DBIPARMS_D20 after a licensed users limit is exceeded so that users can be logged out. |
| | | Done by having a user with a start form of DBIPARMS_D20. |
| | | Current user will be redirected to Logout Form DBIUSERS_D30 if they try to log themselves out instead of an error message. |
| 7.1.2.1 | Code Editor enhancements | The Editor button now displays the 30 most recently edited routines. |
| | | Clicking on the items in the list passes the file and item name as arguments to the Code Editor. |
| 7.1.2.1 | Remove unused fields from DBIFORMS | Fields are not used in DBINET or in DBIFORMS: |
| | | DBIF.CODE.BLOCK.INCLUDE.BEFORE DBIF.CODE.BLOCK.INCLUDE.BEFORE.WK |
| | | DBIF.CODE.BLOCK.INCLUDE.AFTER |
| | | All deleted and E.DBIFORMS regenerated. |
| 7.1.2.1 | DIM declared at the top of the subroutine | DIM DBIGROUPS.RECORDS(100) for example must be declared before the first line of code that references the variable. Easy to put towards the start of the subroutine for MVON. |
| | | UniVerse and UniData permit the declaration to be anywhere in the code prior to using the array including a GOSUB which is below the reference. |

**Fixes and Enhancements Previous Release 7.1.1.1**

| *For Final Release No* | *Task Description* | *Full Description* |
|---|---|---|
| 7.1.1.1 | Development Checklist - Full Description field | Add Full Description field to DBICHK both SRL and SRL Page records. |
| 7.1.1.1 | Development Checklist - Load Checklist Update changes | Widen the Update Messages field on Form A15. Include error messages at the end of the log in the event of a partial load. |

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| 7.1.1.1 | Development Checklist - Check if any element of a checklist page is included in another checklist page | Check if any element of a checklist page is included in another checklist page. |
|---|---|---|
| | | Give visibility to developers of a clash where the same element is under change in more than one checklist page. |
| 7.1.1.1 | Forms Designer - Focus moves to base of displayed form when side menu option is expanded | If a long form is displayed such as Field Properties and then a side menu option is expanded or contracted, focus jumps to the bottom of the displayed form. It should not react at all. |
| 7.1.1.1 | Selection Process - does not heed Select Field Width with dropdown | Selection Process does not heed Select Field Width when displaying a selection field that has a dropdown. |
| | | Normally the width of the field is set to handle the longest description in the dropdown list. |
| | | However in the Selection Process the field with the dropdown is too short. But adding a Select Field Width makes the field too long. |
| 7.1.1.1 | Forms Designer - Form depth to be adjusted based on collapsing sections | Form depth was being derived from the 'Form Depth' attribute. Forms with collapsing sections displayed with blank space below the final form element if sections were collapsed. |
| | | Amended behaviour is to calculate the total form depth based on those elements that are currently displayed. |
| 7.1.1.1 | Standard DesignBais Style Groups can no longer be amended | DesignBais is released with two standard Style Groups called dbaisWeb (for forms) and dbaisRep (for reports). |
| | | If the developer wants to amend these Style Groups then they must be copied and re-named. The new name can then be available for use on the client's forms and reports. |
| 7.1.1.1 | DBRESIZEFIELD in OFR resizes field but not column width | Fixed. Problem existed in Version 6. |
| 7.1.1.1 | Forms Designer - Output Field set to 100% | Set style property to include right:0px not width:100% |
| 7.1.1.1 | Logo Image replaced on DBIGLOBAL*D20 | There is no image displayed on DBIGLOBAL_D20 despite the fact that the Global Login Parameters allows you to set your Login Image in the DBIGLOBAL record LOGINDEFAULTS. |
| | | Changes to the DBIGLOBAL_D20 (global Login form) and to DBI.I.DBIGLOBAL subroutine to change the image on the login form based on the gloabal record.  (It appears this change did not make it to v7 as the image does not change to the logo in the global record.) |
| 7.1.1.1 | Reference Manual by Version | DesignBais Reference Manual_n_n_n.pdf now referenced from menus. |
| | | DesignBais Release Notes.pdf added to menu. |
| 7.1.1.1 | Forms Designer - Corruption by Checkbox or Radio Button | Check boxes and Radio Buttons are flagged as checked or unchecked when selected in Forms Designer. In normal processing the true/false flag is passed back to set the associated field variable (DBRECORD, DBWORK or DBOTHER.RECORD(n)). Unfortunately in designer this could corrupt the form data. This process is now by |

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|---|---|---|
| | | passed when the Designer Form is loaded as no data is entered directly into the grid. |
| 7.1.1.1 | Forms Designer - Cannot focus on radio button form element | Message 'You have not selected a field' after clicking on a radio button form element then clicking the 'Properties' button. |
| 7.1.1.1 | DBPASS.DBVALUE.TO fails for multi-value input field | Fixed. |
| 7.1.1.1 | DesignBais Read Error Message | Key is now shown in the 'Record must (not) exist' messages. |
| 7.1.1.1 | Database Serial Encoding updated | Encoding to match encryption rules. |
| | | Especially for UV PE with '-2' serial number. '-' and other characters now ignored. |
| 7.1.1.1 | OnWare Port | In progress. |
| 7.1.1.1 | D3 Port | Completed. |
| 7.1.1.1 | Upgrade Routines - option 16 read locks not released. | Upgrade option 16 removes erroneous entries from DBIF.FIELD.CONTROLKEY.LIST Form attribute. |
| | | This routine did not release locks under certain circumstances. |
| 7.1.1.1 | Forms Designer - Fix for maximum tab index on forms exceeds 995 | Forms now have a maximum tab index value of 995 imposed by the browser. In certain circumstances tab index was assigned a value greater than 995. |
| 7.1.1.1 | Unassigned Variables | DBI.G.DBSPECIFICNET when called from DBI.P.DBIREPORTSNET. |
| | | CALL DBI.G.INITVARIABLES added to DBI.P.DBIREPORTSNET |
| 7.1.1.1 | Forms Designer - Enter Control MV Header | The 'Button action to occur when Enter is pressed' was not working for MV Header Processes. |
| 7.1.1.1 | Forms Designer - 'Button to Action when Enter is pressed' not invoked from sub form | DBICHK*A12 is a sub form. On a new record the 'Button to Action when Enter is pressed' works correctly. But when maintaining an existing record pressing the Enter key when in this form does not trigger the 'Close' button even though this is the button that is defined as 'Button to Action when Enter is pressed'. |
| 7.1.1.1 | Form Compare - Extended to allow compare of all forms in a folder | Add the ability to compare multiple forms and create a list of those that differ, then allow each of these in turn to be compared. |
| 7.1.1.1 | Prevent end-user changes to standard style groups | Provide enquiry only access to DesignBais style groups dbaisWeb and dbaisRep, and to DesignBais style records. |
| | | Allow end-user to copy a style/style group from DBISYSFORMS but force a change of 'dbais' prefix. |
| | | Create ability to copy a style group but force change of prefix if 'dbais'. |
| 7.1.1.1 | Forms Designer - New button to view or maintain F1 field help | Add a button to several DBIFORMS forms, such as the Input Field Definition, to allow access to new form DBIPROP_D20 which provides for easier maintenance of Field Help. |
| 7.1.1.1 | Review File Pointers form | A new form to allow developers to review all file and Q pointers in an account, with the ability to delete those not required. |
| | | Allows global change of file paths based on a selected pattern. |

| 7.1.1.1 | Phantom Tracking to include Administrator Users | The Phantom Status button on Active Users now includes phantom processess that were not initiated by DesignBais. The UV phantom run by NT AUTHORITY is still excluded. |
|---------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.1.1.1 | Review Basic Library - Find strings in records in either a Basic Library or other file. | A new form to display, within a selected account, all records from a specified file that contain any one of a set of target strings. An associated list of replacement strings can be applied and all affected records are, if required, compiled. Compilation errors are displayed. |
|         |                                               | Records with Ids that match particular criteria can be moved to a backup file and deleted from the specified file. |
| 7.1.1.1 | DBI.P.CALLDBSUB - Program to allow a phantom process to call a subroutine. | Some database platforms, such as UniVerse, allow a phantom process to call a subroutine. Some do not, such as D3. Using this new program allows a subroutine to be called by a phantom on any platform. |