

DesignBais

Migration Manual

Release 7

Release 8

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Overview

This document contains upgrade notes for migrating DesignBais v6.99 and earlier accounts to DesignBais Release 7 and above.

The Base Environment

Ensure that the account to be migrated has the same directory structure in the DesignBais 7/8 environment as it has in the current DesignBais 6 (or earlier) environment. This will ensure that file pointers and catalog entries will continue to function correctly.

Note that the db.config file in Release 8 and above must contain a <setup> node even if there is no content. If there is no <setup> node then add:

```
<setup>  
</setup>
```

to your db.config file.

Review the location of DBI Files

The following DBI files must be available for the migration process since they contain records that require conversion or the data in the records are required for testing the conversion:

- | | |
|-------------------|---|
| 1. DBICODEBLOCK | Source code for code blocks |
| 2. DBIFILES | File definitions |
| 3. DBIFORMS | Form definitions |
| 4. DBIGROUPS | User Group records including Favorites definitions |
| 5. DBIMENUS | Menu definitions |
| 6. DBIPARMS | DesignBais parameters and possibly Application parameters |
| 7. DBIPROP | Field definitions |
| 8. DBIREPORTS | Report definitions |
| 9. DBISELECT | Selection definitions |
| 10. DBISTYLE | Style definitions |
| 11. DBISTYLEGROUP | Style Group definitions |
| 12. DBIUSERS | User records |
| 13. DBLIB | Basic source code |

If DBI files are in various data accounts then all those accounts need to be copied into the migration environment.

In the production account enter the following command:

```
SSELECT VOC WITH F0 = "DBI]" AND WITH F1 = "F]"Q"  
LIST VOC F1 F2 F3
```

This will list the location of the data and dictionary levels of all DBI files.

For reference the list of DBI files is:

Directory files required by DesignBais:

1. DBINET
2. DBI
3. DBIHELP
4. DBICODEBLOCK
5. DBILICENCE
6. DBLIB

In any account the following files are **Q pointers to the DBINET source account**:

1. DBINET
2. DBI
3. DBIHELP
4. DBISYSFILES
5. DBISYSFORMS
6. DBISYSPROP
7. DBISYSSELECT
8. DBINET.O (if Database is UNIVERSE or IDEAL)
9. DBI.O (if Database is UNIVERSE or IDEAL)

The following are Q Pointers to the DBINETLOGIN Login Account:

1. DBIGLOBAL
2. DBIGROUPS
3. DBILICENCE
4. DBISESSIONS
5. DBISTATS
6. DBIUSERS

The Data level of the following files, in a DesignBais working account, are either **Local Files** or, pointers to the Shared DesignBais Software account if a Shared DesignBais Software account is specified. In either case the dictionary level points to the Shared Dictionaries in DBINET.

1. DBFINDEXDEFN
2. DBIAUDIT
3. DBIAUDIT.EXT
4. DBIBACKUP
5. DBICLK
6. DBICLKEXTRACT
7. DBICODEBLOCK
8. DBICON
9. DBIEOP
10. DBIFILES
11. DBIFORMS
12. DBIGLOSSARY
13. DBIMENUS
14. DBIPARMS
15. DBIPMCODE
16. DBIPMLINK
17. DBIPMPROCESS
18. DBIPMRULE
19. DBIPMSTEP

20. DBIPMSTATUS
21. DBIPROP
22. DBIREPORTS
23. DBIRULE
24. DBISELECT
25. DBISTYLE
26. DBISTYLEGROUP
27. DBIUSERLOG
28. DBIXMLLOG
29. DBLIB
30. DBLIB.O (if NOT a Shared Software account and database is *UNIVERSE* or *IDEAL*)
31. DBICODEBLOCK.O (if NOT a Shared Software account and database is *UNIVERSE* or *IDEAL*)

DBILOGIN Account Conversion

Part of any upgrade is to upgrade the current DBILOGIN account rather than use the DBILOGIN account from Release 7 and above that is part of the Data Component which is downloaded from the DesignBais website.

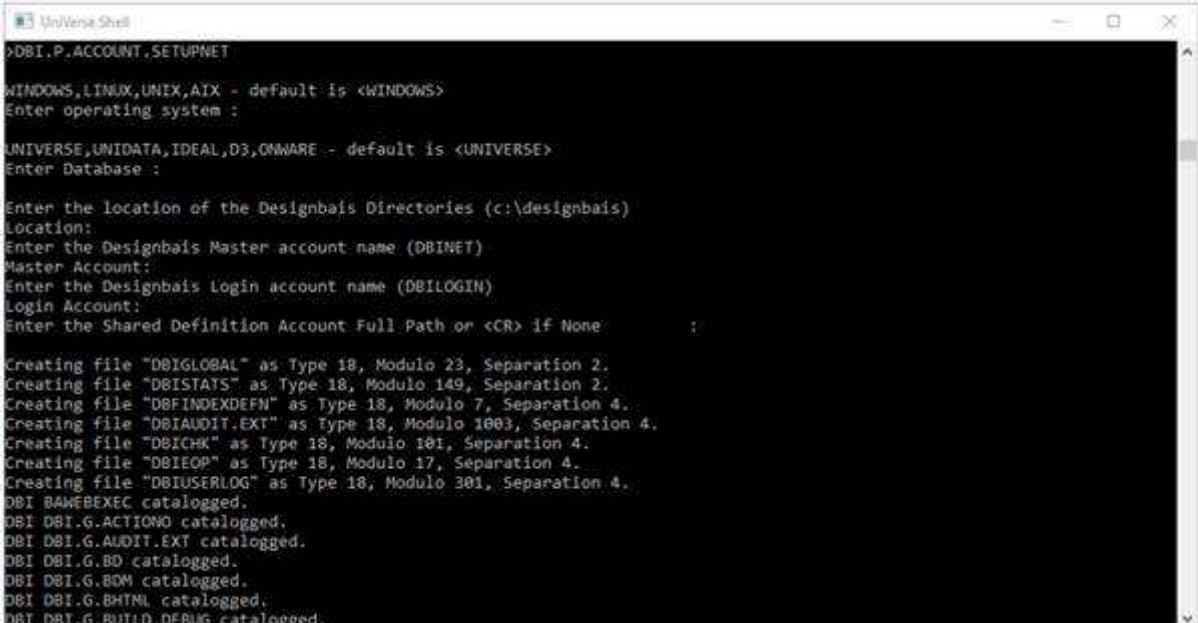
DBI.P.ACCOUNT.SETUPNET is supplied with DesignBais and is used to install DesignBais into a new account. It can also be used to check and update file pointers in an existing account.

If DBI.P.ACCOUNT.SETUPNET is run in DBILOGIN it will look for local files and create them if they are missing. Typically the new file (in Release 7 and above) DBISTATS will be created. The following list of files are expected to be in the DBILOGIN account with the Data level being local to DBILOGIN and the Dictionary level pointing to the DBINET account where all DBI file dictionaries reside:

DBIGLOBAL (Optional file)
DBIGROUPS
DBILICENCE
DBISESSIONS
DBISTATS (New in Release 7/8)
DBIUSERS

These are the recommended steps to follow to incorporate the DBILOGIN account into Release 7 and above:

- If Release 7 and above is installed from the website in the normal manner then the DBILOGIN account will already exist in the folder c:\DesignBais\data
- Obtain the DBILOGIN account from the client site that is to be migrated to Release 7 and above.
- Rename c:\DesignBais\data\DBILOGIN to c:\DesignBais\data\DBILOGINV7
- Load the client site copy of DBILOGIN as c:\DesignBais\data\DBILOGIN
- In this copy create a pointer to the DBINET file (in account c:\DesignBais\ba\DBINET)
- Catalog DBINET DBI.P.ACCOUNT.SETUPNET
- Run DBI.P.ACCOUNT.SETUPNET



```
UniVerse Shell
>DBI.P.ACCOUNT.SETUPNET
WINDOWS,LINUX,UNIX,AIX - default is <WINDOWS>
Enter operating system :
UNIVERSE,UNIDATA,IDEAL,D3,ONWARE - default is <UNIVERSE>
Enter Database :
Enter the location of the Designbais Directories (c:\designbais)
Location:
Enter the Designbais Master account name (DBINET)
Master Account:
Enter the Designbais Login account name (DBILOGIN)
Login Account:
Enter the Shared Definition Account Full Path or <CR> if None :
Creating file "DBIGLOBAL" as Type 18, Modulo 23, Separation 2.
Creating file "DBISTATS" as Type 18, Modulo 149, Separation 2.
Creating file "DBIINDEXDEFN" as Type 18, Modulo 7, Separation 4.
Creating file "DBIAUDIT.EXT" as Type 18, Modulo 1003, Separation 4.
Creating file "DBICHK" as Type 18, Modulo 101, Separation 4.
Creating file "DBIEOP" as Type 18, Modulo 17, Separation 4.
Creating file "DBIUSERLOG" as Type 18, Modulo 301, Separation 4.
DBI BAWFEXEC catalogged.
DBI DBI.G.ACTIONO catalogged.
DBI DBI.G.AUDIT.EXT catalogged.
DBI DBI.G.BD catalogged.
DBI DBI.G.BDM catalogged.
DBI DBI.G.BHTML catalogged.
DBI DBI.G.BUID.DEBUG catalogged.
```

- Normally a Shared Definition Account must be specified. The path to the Shared Definition Account is used in the DATA level pointer for all DBI files in the **Local Files** list above.
- The DBIUSERS file from the client site will now be the active DBIUSERS file in DBILOGIN
- Restore the default *loginPublicUser* 'dbnetuser' by copying the 'dbnetuser' record from DBILOGINV7\DBIUSERS into DBILOGIN\DBIUSERS
- Open the browser and logto DesignBais
- The DBISTATS file is created (new in Release 7/8)
- All DBI-type file pointers are set up
- All DBI and DBINET routines are catalogued

DBILICENCE Changes

For Release 7/8 the licence text file is called LICENCE.NET not LICENCE.TXT.

The licence checking logic in Release 7/8 has changed from that used in previous versions.

Contact DesignBais support to obtain a new licence.

Licensing is done at the database rather than in the web server and is linked to the database licence.

The DBINET Account

The following files are expected in the DBINET account and thus in a user application account are usually Q pointers to DBINET (or to DBI in Release 6 and older versions):

1. DBINET (Source file)
2. DBI (The source file for pre-Release 7 is still utilised)
3. DBIHELP
4. DBISYSFILES
5. DBISYSFORMS
6. DBISYSPROP
7. DBISYSSELECT
8. DBINET.O
9. DBI.O

The last two Basic Object files exist if DATABASE = 'UNIVERSE' or DATABASE = 'IDEAL'.

Local (or Shared Account) Files

The Data levels of the following files are normally local to the application account, or are Q pointers from the application account to the shared source account if there is a shared source account. The Dictionary levels are Q-pointers to the DBINET source account.

1. DBINDEXDEFN
2. DBIAUDIT
3. DBIAUDIT.EXT
4. DBIBACKUP
5. DBICLK
6. DBICLKEXTRACT
7. DBICODEBLOCK
8. DBICON
9. DBIEOP
10. DBIEXPORT
11. DBIFILES
12. DBIFORMS
13. DBIGLOSSARY
14. DBIMENUS
15. DBIPARMS
16. DBIPMCODE
17. DBIPMLINK
18. DBIPMPROC
19. DBIPMRULE
20. DBIPMSTATUS
21. DBIPMSTEP
22. DBIPROP
23. DBIREPORTS
24. DBIRULE
25. DBISELECT
26. DBISTYLE
27. DBISTYLEGROUP
28. DBIUSERLOG
29. DBIXMLLOG
30. DBLIB
31. DBLIB.O
32. DBICODEBLOCK.O

The last two Basic Object files exist if DATABASE = 'UNIVERSE' or DATABASE = 'IDEAL'.

Conversion Checklist

If you are migrating from a Version 6 DesignBais then pointers to the files DBINET and DBISTATS will need to be created

Set up file pointer to DBINET

```
F
E:/HOME/BA/DBINET/DBINET
E:/HOME/BA/DBINET/D_DBINET
```

Set up file pointer to DBISTATS

```
F
E:/HOME/DATA/DBINETLOGIN/DBISTATS
E:/HOME/BA/DBINET/D_DBISTATS
```

Run the Review File Pointers form for each account.

The following two selects apply to UniVerse. Amend as required for other databases.

- SELECT DBLIB.O
- CATALOG DBLIB

- SELECT DBICODEBLOCK.O
- CATALOG DBICODEBLOCK

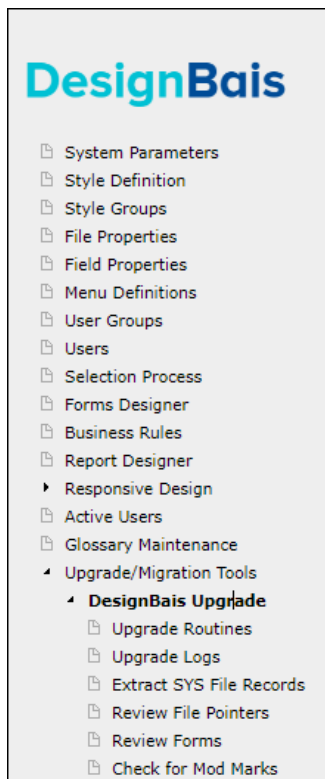
More detailed descriptions of these steps follow.

For the Database Component:

- Check that the website is not in use
- Backup accounts to be upgraded
- Download the DBINET account (or perhaps all DesignBais Release accounts in the full download)
- Copy the downloaded DBINET over the existing DBINET and load the new DBINET.DEMO release if needed
- Log to each data account and RUN DBINET DBI.P.ACCOUNT.SETUPNET to catalog any new routines & create any new files.
- In Style Definition there is a link button "Set Style Heights" which calculates FONT size information by analysing styles and using the calculated padding, borders and font height in order to create a more accurate element both in Forms Designer and at run time. This should be run in all browsers as they render fonts at different sizes. The largest calculated size is retained.
- Call up a style using the Style Definitions form on the DesingBais tools menu. Do a dummy save of the style to rebuild the css which will pick up any new/changed DesignBais styles (needed if the data component was upgraded).
- **Run upgrade routines** – see the Migration Manual for details. If moving from a release prior to 8.3.3.4 you must run Upgrade Routine 30 to adjust the heights of input boxes, check boxes & radio buttons used in your forms.
- Regenerate the CSS files from a data account after checking the local DBISTYLE has the latest "dbais" styles. Refresh the browser.

Upgrade Tools

There are tools to assist in migrating to DesignBais Release 7 and above. Refer to the Development Tools side menu shown below.



Upgrade Routines

Use the Upgrade Routines found under the Global Parameters side menu option to report on potential problems.

Some of the Upgrade Options are considered mandatory. Options 1, 12, 13, 16, 17, 30 – 33 and 38 - 42 are considered mandatory. These should be run.

- Option 1
Apply new style and dummy amend "RUN." print selection forms.
There is a requirement in Version 7/8 to amend all 'RUN.' forms associated with reports so that they display correctly.
- Option 12
Fix form tab index where index exceeds 995.
Version 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 and above Style Groups.

- Option 30
This option updates input field rowspan and checkbox colspan on DBIFORMS to make them compatible with the form style group. This allows existing forms to display correctly in the later release. Forms Designer now uses the style group to set rowspan and colspan.
- Option 31
This option clears values from derived fields on DBIFORMS that are set at run time.
- Option 32
This option check that field colspans are numeric apart from specified prefixes such as %. Note that there is no update option. Issues reported in the Upgrade Log must be fixed manually.
- Option 33
If Business Rules have been implemented then this option will rebuild the list of fields referred to by Business Rules in order to correct wrongly linked fields.
- Option 38
Up to Release 8.5.1.3 font size calculations were stored on DBIPARMS in records with keys commencing with FONT*. This upgrade routine moves these records to DBISTYLE. Release 8.5.1.4 and later reads these records from DBISTYLE. The records have been moved in order to minimise the number of locations that hold these records. DBIPARMS is typically local to an account whereas DBISTYLE is typically used for multiple accounts.
- Option 39
Cross browser mode in V6 changed the width of <input> elements to 92% of the entered column span. This was carried forward to V8. But you can check the "Inputs Use Col Span" field on the Designer front form to apply the column span as entered for all <inputs> on a form. This upgrade will set the "Inputs Use Col Span" flag for all or selected forms in your DBIFORMS file.
- Option 40
Allows the rowspan of form fields to be amended. You can define a specified field type, or all field types, and a specified display class, or all display classes. The amendment will be applied where the current rowspan is less than the specified value. Use a negative value if you want to decrease the rowspan.
- Option 41
From Release 8.9.1.1 eXpress Group Names and eXpress Reporting fields are stored on DBIPARMS records with a key of EXPRESS*filename. This allows amendments to these group names to be moved to production environments without the requirement to update the DBIFILES record. eXpress Group Names can still be maintained from the File Properties maintenance form and from the Set eXpress Field Group option on the eXpress menu.
- Option 42
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. The Search button will now be triggered by pressing Ctrl+Enter in the search field(s). The Refine button will now be triggered by pressing Ctrl+Enter in the refine field(s).

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 Version 7 requires all grids to have the same section name and all fields within a grid to have the Field Multivalued flag checked.
- Option 3
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 5
Set HTML Encoding. All output, text and report fields should by default have HTML Encoding turned on. Upgrade settings should be as shown to the right.
- Option 11
Fix MV Tab Sequence
In version 7 all fields within each multivalue grid must have contiguous tab index values. This will report any forms which need to be amended.



Option	Run Type	Run?	Description	Mandatory
1	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	1 Apply new style to RUN, print selection forms then dummy amend	Yes
2	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	2 Form MV Grid non-matching Group or Section name and Field Multivalued not set	
3	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	3 Import Styles from previous release of DesignBais	
4	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	4 Set Form Centering	
5	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	5 Set HTML Encoding	
6	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	6 Set Form Label Header type fields to have Col Span of 100%	
7	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	7 Form Hyperlinks where col or row span needs increasing to avoid truncating the text	
8	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	8 Standardise Style Names	
9	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	9 Check Forms for overlapping collapsing sections (No Update Option)	
10	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	10 Add border-width:1px to MV Grid Styles	
11	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	11 Fix Form MV Grid Tab Sequence to be the same for all fields in the grid	
12	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	12 Fix Form Tab Index where Index exceeds 995	Yes
13	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	13 Check Form reads of MV fields are in MV Grids (No Update Option)	Yes
14	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	14 Load DesignBais Style Groups and Styles	
15	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	15 Report Column Headings where row span needs increasing to avoid truncating	
16	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	16 Remove erroneous entries from DBIF.FIELD.CONTROLKEY.LIST Form attribute	Yes
17	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	17 Update Style Groups that contain attributes with no defined Style	Yes
18	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	18 Add Form Help button to forms	
19	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	19 Clear B.SEARCHDESIGNBAIS as button action to occur when enter clicked in search forms	
20	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	20 Check Forms for invalid files and subroutines not cataloged (No Update Option)	
21	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	21 Set the default display class for button action to occur when enter pressed	
22	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	22 Report mv fields with dropdown, not in a grid and with rowspan 58	
23	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	23 Purge Orphaned Cabinet Reports	
24	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	24 Check for forms with fields having zero colspan width	
25	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	25 Check DesignBais Glossary for errors	
26	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	26 Check Forms for Date field XML Label lacking the datepicks string	
27	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	27 Check Report RUN forms for description from the selection rather than the report	
28	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	28 Update Form Help in DBIHELP to remove the xml label from the field prop ids	
29	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	29 Update Selection Form date lookup if style group has Select Process Date Lookup	
30	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	30 Update Form input field rowspan and checkbox colspan - now set by display class	Yes
31	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	31 Clear values from derived fields on DBIFORMS that are set at run time	Yes
32	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	32 Check field colspans are numeric apart from specified prefixes such as % (No Update Option)	Yes
33	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	33 Rebuild list of fields referred to by Business Rules	Yes
34	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	34 Remove colspan default value 90 from images on reports (colspan was ignored in Version	
35	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	35 Replace page control buttons on Selection Process forms with new compact version	
36	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	36 Apply DIGEST encrypting to DBIUSERS passwords	
37	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	37 Change Input display class on TEXT and OUTPUT form fields to Label display class	
38	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	38 Move FONT* records from DBIPARMS to DBISTYLE (post Release 8.5.1.3)	Yes
39	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	39 Update DBIFORMS records to use col span to determine the width of input fields	Yes
40	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	40 Update rowspan of selected fields on DBIFORMS records	Yes
41	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	41 Move eXpress Group Names from DBIFILES to DBIPARMS	Yes
42	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	42 Refresh search forms to utilise Ctrl+Enter to trigger the search button	Yes

The *Apply Upgrade to Selected Items* field allows the upgrade to be applied to a subset of items:

The screenshot shows a window titled "Apply Upgrade to Selected Items". Inside, there is a list of items with checkboxes. The first item is "DBDEMO_CALENDAR" and the second is "DBDEMO_PD". The checkbox for "DBDEMO_PD" is checked, while the checkbox for "DBDEMO_CALENDAR" is unchecked. There are also navigation arrows and an 'x' icon on the left side of the list.

Check Form Grids for Non-Matching Group and Section Name

Update Group Name / Section Name / MV Flag
 Exclude Grid Output Fields

Import Styles from Previous Release

Current Path
 Re-named DBI account path

Set Form Centering

Reset "Center All Forms" property on All Forms
 Set System Parameters "Center All Forms"
 Set Global Parameters "Center All Forms"

Set HTML Encoding

Reset "Encode HTML" property on All Forms
 Set System Parameters "Encode HTML"
 Set Global Parameters "Encode HTML"

Hyperlink Label Col Span Check

Clear the list of Ignored Fields

Load DesignBais Style Groups and Styles

Style Prefix

Report Column Heading and Form Search Label Row Span Check

Clear the list of Ignored Items

Set Button action to occur when Enter is pressed

Style to apply to 'Enter' Button

Style definition to retain on 'Enter' button	
<input type="checkbox"/>	dbaisSearchLabel
<input type="checkbox"/>	dbaisSearchLabelLite
<input type="checkbox"/>	dbaisSearchLabelBlue
<input type="checkbox"/>	dbaisSearchLabelGreen

Report forms that do not specify Enter button

Example of Upgrade Log for Option 9

Upgrade Logs	
Filename	DBIPARMS
Record Id	UPGRADE.9
9 Check Forms for overlapping collapsing sections	
Count/Form Id	Log Details
1	9 Check Forms for overlapping collapsing sections
2	Run Type/View
3	Run time and date: 14:48:43 28 FEB 2017
4	ARMMASTER*B1
5	Overlapping Section Warnings
6	Collapsing Section Cust.Opt Starts row 678 Ends 1218
7	DDDECISIONTEXT Start 650 End 880 Section Cust.Opt.hdr starts 648 ends 880
8	ARM.PMML.MED.USER Start 2940 End 3065 Section Main starts 0 ends 3065
9	ARM.PORTAL.DATE Start 2940 End 3065 Section Main starts 0 ends 3065
10	Collapsing Section Client.Det Starts row 1260 Ends 1908
11	ARM.PMML.MED.USER Start 2940 End 3065 Section Main starts 0 ends 3065
12	ARM.PORTAL.DATE Start 2940 End 3065 Section Main starts 0 ends 3065
13	Collapsing Section FSRA.Det Starts row 1930 Ends 2335
14	ARM.PMML.MED.USER Start 2940 End 3065 Section Main starts 0 ends 3065
15	ARM.PORTAL.DATE Start 2940 End 3065 Section Main starts 0 ends 3065
16	Collapsing Section FSRA.Det.jav Starts row 2370 Ends 2520
17	ARM.PMML.MED.USER Start 2940 End 3065 Section Main starts 0 ends 3065
18	ARM.PORTAL.DATE Start 2940 End 3065 Section Main starts 0 ends 3065
19	Collapsing Section ConfNotes Starts row 2570 Ends 2710
20	ARM.PMML.MED.USER Start 2940 End 3065 Section Main starts 0 ends 3065

Upgrade 7 updates where possible but marks other updates as “Manual”. Click the Form Id to maintain the form.

Upgrade Logs		
Filename	DBIPARMS	
Record Id	UPGRADE.7	
7 Form Hyperlinks where col span needs increasing to avoid truncating the text		
Count/Form Id	Log Details	Ignore
1	7 Form Hyperlinks where col span needs increasing to avoid truncating the text	
2	Run Type/Update	
3	Run time and date: 23:03:40 03 SEP 2017	
4	ISCAGENT*A10	
5	Col Span updated on Field B.NEW.AGENT (Click to Create a New Agent [label3]) from 90 to 162	
6	Col Span updated on Field B.CLUB (Authorized Club [label25]) from 90 to 91	
7	Col Span updated on Field B.CLUB (Authorized Club [label25]) from 90 to 91	
8	Col Span updated on Field B.CLUB (Authorized Club [label27]) from 90 to 91	
9	Col Span updated on Field B.CLUB (Authorized Club [label27]) from 90 to 91	
10	Col Span updated on Field B.AREA-G13 ([label13]) from 10 to 21	
11	Col Span updated on Field B.AREA-S13 ([label13]) from 10 to 21	
12	Col Span updated on Field B.AREA-S42 ([label7]) from 10 to 21	
13	Col Span updated on Field B.AREA-C42 ([label7]) from 10 to 21	
14	Col Span updated on Field B.AREA-S188 ([label9]) from 10 to 21	
15	Col Span updated on Field B.AREA-M7 ([label10]) from 10 to 21	
16	Col Span updated on Field B.AREA-S89 ([label11]) from 10 to 21	Manual
17	Col Span updated on Field B.AREA-S145 ([label11]) from 10 to 21	Manual
18	Col Span updated on Field B.AREA-S9 ([label11]) from 10 to 21	
19	Col Span updated on Field B.AREA-S27 ([label14]) from 10 to 28	
20	Col Span updated on Field B.AREA-F11 ([label15]) from 10 to 21	Manual
21	Col Span updated on Field B.AREA-A140 ([label16]) from 10 to 28	
22	Col Span updated on Field B.AREA-K19 ([label17]) from 10 to 21	Manual
23	Col Span updated on Field B.AREA-N88 ([label18]) from 10 to 28	Manual
24	Col Span updated on Field B.AREA-D13 ([label19]) from 10 to 21	
25	Col Span updated on Field B.AREA-C8 ([label20]) from 10 to 21	
26	Col Span updated on Field B.AREA-W53 ([label21]) from 17 to 28	Manual
27	Col Span updated on Field B.AREA-T1 ([label22]) from 17 to 21	

Upgrade Option 7 has been designed to assist with locating form hyperlinks (searchLabel class buttons) that need to have the colspan increased in order to display correctly in all browsers. Form elements, such as hyperlink buttons, are rendered larger (occupy a longer colspan) by Firefox than by most other common browsers. It is therefore necessary that any changes to styles recommended by Upgrade Option 7 be tested in Firefox.

Upgrade option 7 uses calculations involving an estimate of the colspan and rowspan required by a form element for the font defined by the style applied to the form element. It is necessary to make available to the upgrade routine the estimated screen real estate required by any particular font on any specified browser. This is done using the DesignBais Style Definition tool.

Below is the screenshot of the Upgrade Option 7 “Form Hyperlinks where col or row span needs increasing to avoid truncating the text” run in view mode. The routine was able to access font size tables, on DBISYSFORMS records that are supplied by DesignBais, for all fonts referenced in the DBISTYLE style records except for a font called “oswald” with point size 10. The upgrade log advises that Font Point Sizes need to be calculated for “oswald*10”. For the best results when re-running Upgrade option 7 in update mode it is best to do the calculation in the Firefox browser.

Upgrade Logs		
Filename	DBIPARMS	Print Copy
Record Id	UPGRADE.7	7 Form Hyperlinks where col or row span needs increasing to avoid truncating the text
Count/Form Id	Log Details	Ignore
1	7 Form Hyperlinks where col or row span needs increasing to avoid truncating the text	
2	Run Type/View	
3	For best results, the following Font Point Sizes need to be calculated:	
4	oswald*10	
5	Run time end date: 13:20:13 05 FEB 2018	
6 5*F24	Col Span will be updated on field B.NOREDET4 (more details [label50]) from 90 to 91	
7	Col Span will be updated on field B.NOREDET5 (more details [label66]) from 90 to 91	
8	Col Span will be updated on field B.NOREDET6 (more details [label81]) from 90 to 91	
9 APTRANS*410	Col Span will be updated on field B.COBR (Company/Branch [label61]) from 90 to 100	
10 APTRANS*810	Col Span will be updated on field B.COBR (Company/Branch [label44]) from 90 to 100	
11 ARMASTER*81	Col Span will be updated on field B.COBR (Company/Branch [label19]) from 90 to 100	
12 ARMASTER*81.MTD	Col Span will be updated on field B.COBR (Company/Branch [label18]) from 90 to 100	
13 ARMASTER*81.SAVE	Col Span will be updated on field B.COBR (Company/Branch [label12]) from 90 to 100	
14 ARMASTER*81.SAVE0608	Col Span will be updated on field B.COBR (Company/Branch [label13]) from 90 to 100	
15 ARMASTER*81.SAVE2	Col Span will be updated on field B.COBR (Company/Branch [label13]) from 90 to 100	
16 ARMASTER*81NEW	Col Span will be updated on field B.COBR (Company/Branch [label19]) from 90 to 100	
17 ARMASTER*81SO	Col Span will be updated on field B.COBR (Company/Branch [label22]) from 90 to 100	
18 ARMASTER*890	Col Span will be updated on field B.COBR (Company/Branch [label3]) from 90 to 100	
19 ARMASTER*895	Col Span will be updated on field B.COBR (Company/Branch [label4]) from 90 to 100	
20 ARMASTER*897	Col Span will be updated on field B.COBR (Company/Branch [label5]) from 90 to 100	
21 ARMASTER*010	Col Span will be updated on field B.IVO.MISA.A99 (Application Received [label37]) from 170 to 174	
22 ARMASTER*0510	Row Span will be updated on field B.RETRID.DATE (Date Internship Commenced [label57]) from 20 to 28	
23	Row Span will be updated on field B.RETRID.DATE (Date Medical Studies Commenced [label76]) from 20 to 28	
24 ARMASTER*FL	Col Span will be updated on field B.COBR (Company/Branch [label8]) from 90 to 100	
25 ARMASTER*015G	Col Span will be updated on field B.COBR (Company/Branch [label22]) from 90 to 100	
26 ARMASTER*P29	Col Span will be updated on field B.COBR (Company/Branch [label5]) from 90 to 100	

The log above reports that Font Point Sizes for “oswald*10” need to be calculated. Open a browser tab in Firefox and log into DesignBais. Use the Review Basic Library side menu option or the Find String option on the Editor form to search DBISTYLE for “oswald”. This reveals that this font is used on the style record “spfBlueHeader”.

Find and Replace String in Specified File

User Id	<input type="text" value="garb"/>	<input type="button" value="Find String"/>	Maintain Strings
Basic Library or File Name	<input type="text" value="DBISTYLE"/>	Conjunct Search	Display Located Strings
No of Records	<input type="text" value="237"/>	Sort Results By	Display Replace Strings
		<input type="text" value="Off"/>	<input type="text" value="Line No"/>

Record lines containing target strings

Cnt	Record Id	String Found	Line	Pos	Line
1	spfBlueHeader	oswald	1	1	oswald

Click the blue highlighted cell in the Record Id column to access the Style Definition tool.

Find and Replace String in Specified File

User Id: garb Find String

Basic Library or File Name: DBISTYLE Conjunct Search

No of Records: 237 Sort Results By

Record lines containing target strings

Cnt	Record Id	String Found	Line	Pos
1	spfBlueHeader	oswald	1	1

Style Definition Recent Copy Style Additional Properties

Style spfBlueHeader

Fontname: oswald

Color: #fefefe

Point Size: 11 Point

Bold:

Italic:

Underline:

H Justify: Center

V Justify: Center

Background: #5a758f

[Additional Style Properties \(Click\)](#)

- border-collapse: collapse
- border-width: 1px
- border-color: #5a758f
- padding: 2px
- height: 60px

Note: Styles will not become active until you refresh your browser.

Submit Clear Delete Font Size

Click the Font Size button.

?
X

Calculate Font Character Widths and Row Height

Fontname Calculate

Point Size

Height

Character	Normal	Italic	Bold	Bold Italic
	4	4	4	4
!	5	5	5	6
"	6	6	8	8
#	7	7	7	7
\$	7	7	7	7
%	12	12	15	12
&	11	11	12	11
'	3	3	4	4
(5	5	5	5
)	5	5	5	5
*	7	7	7	7
+	8	10	8	8
,	4	4	4	4
-	5	5	5	5
.	4	4	4	4
/	4	4	4	4
0	7	7	7	7
1	7	7	7	7
2	7	7	7	7
3	7	7	7	7
4	7	7	7	7
5	7	7	7	7
6	7	7	7	7

Click the Calculate button. The calculated number of pixels for each character of the font in Normal, Italic, Bold and Bold Italic are displayed. Click Submit to save this record to DBIPARMS. See screen shot below.

```

DEV - SBCClient
File Edit View Setup Transfer Utilities Script Help
SORT DBIPARMS = "FONT]" 03:34:46pm 09 Jun 2021 PAGE 1
DBIPARMS.....

FONT*"Code 128"*14
FONT*"Consolas"*10
FONT*"Courier New"*10
FONT*"Courier New"*8
FONT*Arial*10
FONT*Arial*11
FONT*Arial*13
FONT*Arial*16
FONT*Arial*8
FONT*Fontawesome*10
FONT*Fontawesome*8
FONT*Metropolis*24
FONT*Oswald*11
FONT*Roboto*16
FONT*Roboto*18
FONT*Sans-serif*11
FONT*Sans-serif*12
FONT*Sans-serif*14
FONT*Sans-serif*8
FONT*Sourcesanspro*10
FONT*Sourcesanspro*11
Press any key to continue..._

```

The list of common font point size character widths are show below, held on the DesignBais DBISYSFORMS file.

```

LIVE 2 - SBCClient
File Edit View Setup Transfer Utilities Script Help
SORT DBISYSFORMS = "FONT]"
DBIFORMS.....

FONT*courier new*7
FONT*courier new*8
FONT*geneva*7
FONT*lato*11
FONT*lato*8
FONT*times new roman*18
FONT*verdana*1
FONT*verdana*10
FONT*verdana*11
FONT*verdana*12
FONT*verdana*13
FONT*verdana*14
FONT*verdana*15
FONT*verdana*16
FONT*verdana*18
FONT*verdana*4
FONT*verdana*6
FONT*verdana*7
FONT*verdana*8
FONT*verdana*9

FONT*arial black*11
FONT*arial*1
FONT*arial*10
FONT*arial*11
FONT*arial*12
FONT*arial*14
FONT*arial*16
FONT*arial*17
FONT*arial*20
FONT*arial*5
FONT*arial*7
FONT*arial*8
FONT*arial*9
FONT*calibri*10
FONT*calibri*11
FONT*calibri*12
FONT*calibri*16
FONT*calibri*24
FONT*calibri*7
FONT*courier new*10
FONT*courier new*12
Press any key to continue..

```

Having made the Font Point Size values available for “oswald*11” you can now run Upgrade option 7 in update mode. The log from the update run is shown below.

Upgrade Logs

Filename

Record Id ▼

Count	Form Id	Log Details
1		7 Form Hyperlinks where col or row span needs increasing to avoid truncating the text
2		Run Type:Update
3		Run time and date: 16:24:04 13 FEB 2018
4	5*F24	Col Span updated on field B.MOREDET4 (more details [label50]) from 90 to 91
5		Col Span updated on field B.MOREDET5 (more details [label66]) from 90 to 91
6		Col Span updated on field B.MOREDET6 (more details [label83]) from 90 to 91
7	APTRANS*A10	Col Span updated on field B.COBR (Company/Branch [label62]) from 90 to 100
8	APTRANS*B10	Col Span updated on field B.COBR (Company/Branch [label44]) from 90 to 100
9	ARMAS*TER*B1	Col Span updated on field B.COBR (Company/Branch [label19]) from 90 to 100
10	ARMAS*TER*B1.MTO	Col Span updated on field B.COBR (Company/Branch [label18]) from 90 to 100
11	ARMAS*TER*B1.SAVE	Col Span updated on field B.COBR (Company/Branch [label12]) from 90 to 100
12	ARMAS*TER*B1.SAVE060608	Col Span updated on field B.COBR (Company/Branch [label13]) from 90 to 100
13	ARMAS*TER*B1.SAVE2	Col Span updated on field B.COBR (Company/Branch [label13]) from 90 to 100
14	ARMAS*TER*B1NEW	Col Span updated on field B.COBR (Company/Branch [label19]) from 90 to 100
15	ARMAS*TER*B1SG	Col Span updated on field B.COBR (Company/Branch [label22]) from 90 to 100
16	ARMAS*TER*B90	Col Span updated on field B.COBR (Company/Branch [label3]) from 90 to 100
17	ARMAS*TER*B95	Col Span updated on field B.COBR (Company/Branch [label4]) from 90 to 100
18	ARMAS*TER*B97	Col Span updated on field B.COBR (Company/Branch [label5]) from 90 to 100
19	ARMAS*TER*D10	Col Span updated on field B.IVO.MIGA.APP (Application Received [label37]) from 170 to 174
20	ARMAS*TER*DS10	Row Span updated on field B.RETRO.DATE (Date Internship Commenced [label67]) from 20 to 28
21		Row Span updated on field B.RETRO.DATE (Date Medical Studies Commenced [label76]) from 20 to 28
22	ARMAS*TER*FL	Col Span updated on field B.COBR (Company/Branch [label8]) from 90 to 100
23	ARMAS*TER*G1SG	Col Span updated on field B.COBR (Company/Branch [label22]) from 90 to 100
24	ARMAS*TER*P25	Col Span updated on field B.COBR (Company/Branch [label5]) from 90 to 100
25	ARMAS*TER*P25M.DP	Col Span updated on field B.COBR (Company/Branch [label5]) from 90 to 100

Upgrade 15 run in “View” mode will list all the column headings that will be updated. Click the “Ignore” column if manual update is required.

Upgrade Logs			
Filename	DBIPARMS	Print	Copy
Record Id	UPGRADE.15	15 Report Column Headings where row span needs increasing to avoid truncating	
Count	Report Id	Log Details	Ignore
709		Row Span will be updated on field TEXTONLY (Outstanding Amount [label22]) from 12 to 22	
710	BCCLAIMS*NAUTR02	Row Span will be updated on field DBDESIGNERTEXT (Original Estimate [label10]) from 12 to 22	
711		Row Span will be updated on field DBDESIGNERTEXT (Estimate Revision [label11]) from 18 to 22	
712		Row Span will be updated on field DBDESIGNERTEXT (Est. Recoveries [label12]) from 18 to 22	
713		Row Span will be updated on field DBDESIGNERTEXT (Total Recoveries [label13]) from 18 to 22	
714		Row Span will be updated on field TEXTONLY (Outstanding Amount [label14]) from 12 to 22	
715	BCCLAIMS*RL7	Row Span will be updated on field DBDESIGNERTEXT (L 2-3-4-5-6-7-8-9 [label8]) from 18 to 99	
716		Row Span will be updated on field DBDESIGNERTEXT (Claim No File No/Ins Rep Client No Cause of Loss Practice Status Venue	Manual
717		Row Span will be updated on field DBDESIGNERTEXT (Inctd Rep Inctd Occ Group EVOS Nature RM Code 1 RM Code 2 	Manual
718		Row Span will be updated on field DBDESIGNERTEXT (Prof Grade Prof Type Case Type Claim Type Specialty RM Impact 1 RM	Manual
719		Row Span will be updated on field TEXTONLY (Client Name Claim Heading Cross Reference Jurisdiction RM Detail 1 RM Detail 2	
720		Row Span will be updated on field DBDESIGNERTEXT (Patient Patient Gender Legal Representative Solcm General Nature Loss [label13]	
721		Row Span will be updated on field DBDESIGNERTEXT (NP Liability RP Liability Legal Plaintiff Costs Legal Defense Costs [label14]) from 18 to 33	
722		Row Span will be updated on field DBDESIGNERTEXT (Share % Prob % HCCS [label15]) from 18 to 33	
723		Row Span will be updated on field TEXTONLY (Claim Reserve Plaintiff's Reserve Net Net Liability [label16]) from 18 to 44	
724		Row Span will be updated on field DBDESIGNERTEXT (Settlement TD Plaintiff TD Defendant TD Legal Costs TD [label17]) from 18 to 55	
725	BCCLAIMS*R25	Row Span will be updated on field TEXTONLY (Date Of Loss [label10]) from 18 to 22	
726		Row Span will be updated on field TEXTONLY (Transaction Date [label11]) from 18 to 22	
727		Row Span will be updated on field TEXTONLY (Tran_Type [label12]) from 18 to 22	
728		Row Span will be updated on field TEXTONLY (Outstanding Reserve [label14]) from 18 to 22	
729		Row Span will be updated on field TEXTONLY (Entered By [label15]) from 18 to 22	
730	BCCLAIMS*R35B	Row Span will be updated on field DBDESIGNERTEXT (Unpaid Reserve [label24]) from 18 to 22	
731	BCCLAIMS*R35B	Row Span will be updated on field TEXTONLY (Unpaid Reserve [label24]) from 18 to 22	

Upgrade 16 fixes DBIFORMS records attribute 135 which has been erroneously populated when using Forms Designer.

Upgrade Logs			
Filename	DBIPARMS	Print	Copy
Record Id	UPGRADE.16	16 Remove erroneous entries from DBIF.FIELD.CONTROLKEY.LIST Form attribute	
Count	Form Id	Log Details	
1		16 Remove erroneous entries from DBIF.FIELD.CONTROLKEY.LIST Form attribute	
2		Run Type:Update	
3		Run time and date: 17:41:34 13 FEB 2018	
4		Remove erroneous entries from DBIFORMS attribute 135 DBIF.FIELD.CONTROLKEY.LIST	
5	5*F24	DBIF.FIELD.CONTROLKEY.LIST updated	
6	ANDREW*MI10	DBIF.FIELD.CONTROLKEY.LIST updated	
7	APBNKREC*D10	DBIF.FIELD.CONTROLKEY.LIST updated	
8	APBNKREC*E10	DBIF.FIELD.CONTROLKEY.LIST updated	
9	APBNKREC*R10	DBIF.FIELD.CONTROLKEY.LIST updated	
10	APBNKRECDEL*E10	DBIF.FIELD.CONTROLKEY.LIST updated	
11	APBRECDATA*E10	DBIF.FIELD.CONTROLKEY.LIST updated	
12	APBRECDATA*R10	DBIF.FIELD.CONTROLKEY.LIST updated	
13	APBRECDATA*R20	DBIF.FIELD.CONTROLKEY.LIST updated	
14	APBRECDATA*R30	DBIF.FIELD.CONTROLKEY.LIST updated	
15	APBRECDATA*R40	DBIF.FIELD.CONTROLKEY.LIST updated	

Upgrade 17 checks that Style Group records have a style code entered for all the slots that are populated in the standard DesignBais Style Group *dbaisWeb* and *dbaisRep*.

Upgrade Logs

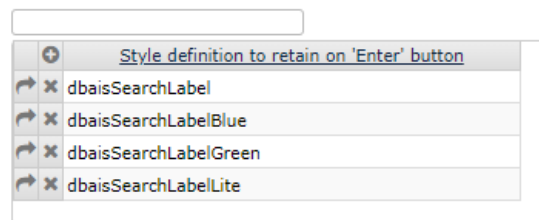
Filename:

Record Id: 17 Update Style Groups that contain attributes with no defined Style

Count	Form Id	Log Details
1		17 Update Style Groups that contain attributes with no defined Style
2		Run Type: Update
3		Run time and date: 17:45:14 13 FEB 2018
4	ARISTR	updated
5	ASR	updated
6	BAMENU	updated
7	BANAUT	updated
8	BAREPS	updated
9	BAREP7	updated
10	BAWEB	updated
11	BAWEB/COLSPAN	updated
12	BBTWEB	updated
13	BROOKHDR	updated
14	BROOKLOGON	updated
15	BROOKMISCR	updated
16	BROOKSME	updated
17	CFPET	updated
18	CHU	updated
19	DBI	updated
20	DBIMDASA	updated
21	DBIMDGA	updated
22	DBIREP	updated
23	DBIWEB	updated

Upgrade 21 sets the default display class for the button action to occur when enter is pressed.
[Set Button action to occur when Enter is pressed](#)

[Style to apply to 'Enter' Button](#)



You can enter the style that you wish to be applied to the button that is actioned when the enter key is pressed. If left blank then the default DesignBais style *BUTTONdbaisEnterKey* will be applied.

You can also specify multiple styles that are to be retained on buttons that have the same name as the button that is actioned when enter is pressed. Typically this scenario arises when a submit button is duplicated in the header row of a form and has a *dbaisSearchLabel* style. You would normally want to leave this style in place and apply the *BUTTONdbaisEnterKey* style to the submit button in the main part of the form.

Upgrade Logs

Filename:

Record Id: 21 Set the default display class for button action to occur when enter clicked

Count	Form Id	Log Details
1		21 Set the default display class for button action to occur when enter clicked
2		Run Type: Update
3		Run time and date: 12:59:14 13 AUG 2018
4		Check for the button action to occur when enter clicked and either retain the button display class if the style appears in
5		list of styles to retain, or remove the button display class and replace it with the style to apply to enter button if a
6		style has been defined.
7		Style to Apply to Enter Button:
8		Style to Retain on Enter Button: dbaisSearchLabel;dbaisSearchLabelBlue;dbaisSearchLabelGreen;dbaisSearchLabelLite
9	DBCLIENT*ABC	B.SUBMIT updated. The "enter" button style was BUTTONdbaisSAVE now set to use the DesignBais default BUTTONdbaisEnterKey
10	DBCLIENT*ABC1	B.SUBMIT updated. The "enter" button style was BUTTONdbaisSAVE now set to use the DesignBais default BUTTONdbaisEnterKey
11	DBCLIENT*ABC2	B.RELCLIENT not updated. The "enter" button uses dbaisSearchLabel style.
12	DBCLIENT*DATEPICKER	B.SUBMIT updated. The "enter" button style was BUTTONdbaisSAVE now set to use the DesignBais default BUTTONdbaisEnterKey
13	DBCLIENT*ENTERTEST	B.CLIENT.NUM updated. The "enter" button style was Input now set to use the DesignBais default BUTTONdbaisEnterKey
14	DBCLIENT*FORMB	B.SUBMIT updated. The "enter" button style was BUTTONdbaisSAVE now set to use the DesignBais default BUTTONdbaisEnterKey

Check File Pointers

Using the Review File Pointers tool in the DesignBais Upgrade menu to review and change all File and Q Pointers in the account to be migrated. This tool should be run from a Release 7 or above account such as DBINET.DEMO.

Crt#	File Name	Delets	Data Path	Dict Path
1	STMPLE	STMPLE	D:\STMPLE	D:\STMPLE
2	STRUNCATED	STRUNCATED	F:\VIV\ID_STRUNCATED	F:\VIV\ID_STRUNCATED
3	ARBATCH	ARBATCH	E:\home\ba\source\RELNET\ARBATCH	E:\home\ba\source\RELNET\ARBATCH
4	ARBATCHDATA	ARBATCHDATA	E:\home\ba\source\RELNET\ARBATCHDATA	E:\home\ba\source\RELNET\ARBATCHDATA
5	ARBATCHREC.REMOVED	ARBATCHREC.REMOVED	E:\home\ba\source\RELNET\ARBATCHREC	E:\home\ba\source\RELNET\ARBATCHREC
6	ARBATCHRECDELJIN	ARBATCHRECDELJIN	D:\ARBATCHRECDELJIN	D:\ARBATCHRECDELJIN
7	ARBATCHRECJIN	ARBATCHRECJIN	D:\ARBATCHRECJIN	D:\ARBATCHRECJIN
8	ARCONP	ARCONP	E:\home\ba\source\RELNET\ARCONP	E:\home\ba\source\RELNET\ARCONP
9	ARCONTROL	ARCONTROL	D:\ARCONTROL	D:\ARCONTROL
10	ARJOURNAL	ARJOURNAL	E:\home\ba\source\RELNET\ARJOURNAL	E:\home\ba\source\RELNET\ARJOURNAL
11	ARJASTCON	ARJASTCON	E:\home\ba\source\RELNET\ARJASTCON	E:\home\ba\source\RELNET\ARJASTCON
12	ARJASTDEL	ARJASTDEL	E:\home\ba\source\RELNET\ARJASTDEL	E:\home\ba\source\RELNET\ARJASTDEL
13	ARMASTER	ARMASTER	E:\home\ba\source\RELNET\ARMASTER	E:\home\ba\source\RELNET\ARMASTER
14	ARMASTER.INDEX	ARMASTER.INDEX	D:\ARMASTER.INDEX	D:\ARMASTER.INDEX
15	AROI	AROI	E:\home\ba\source\RELNET\AROI	E:\home\ba\source\RELNET\AROI
16	AROI.INDEX	AROI.INDEX	D:\AROI.INDEX	D:\AROI.INDEX
17	ARQHIST	ARQHIST	E:\home\ba\source\RELNET\ARQHIST	E:\home\ba\source\RELNET\ARQHIST
18	ARQHIST.INDEX	ARQHIST.INDEX	D:\ARQHIST.INDEX	D:\ARQHIST.INDEX
19	ARRARANS	ARRARANS	E:\home\ba\source\RELNET\ARRARANS	E:\home\ba\source\RELNET\ARRARANS
20	ARRARMS	ARRARMS	E:\home\ba\source\RELNET\ARRARMS	E:\home\ba\source\RELNET\ARRARMS
21	ARRARMENTS	ARRARMENTS	E:\home\ba\source\RELNET\ARRARMENTS	E:\home\ba\source\RELNET\ARRARMENTS
22	ARRANDREC	ARRANDREC	E:\home\ba\source\RELNET\ARRANDREC	E:\home\ba\source\RELNET\ARRANDREC
23	ARRAPVU	ARRAPVU	E:\home\ba\source\RELNET\ARRAPVU	E:\home\ba\source\RELNET\ARRAPVU

Use the [Project](#) hyperlink to set up a project code, or select an existing project from the dropdown list. The changes to file and q pointers are saved against the project and can then be recalled later and re-run. This is done using the buttons:

- [Add to Standard Conversions](#)
- [View Standard Conversions](#)
- [Apply Standard Conversions](#)

Initially each *Account Name* must be entered in the Account Name or Path field. If the *Backup VOC* button is clicked then the File and Q Pointer VOC records can be saved prior to any changes being applied. Doing this will also add the account name to a list of accounts that relate to the *Project* and this list is used to create a dropdown selection list for Account Name or Path.

Review File Pointers

Project:

Account Name or Path:

DBIFORMS Data Path:

DBIUSERS Data Path:

From Path:

From Dict:

Q Pointers

Cnt	Qpointer Name	Delete
1	ADV.WP	
2	ADVHELP	
3	AMEOP	
4	AMLIB	
5	AMQ	

Account Name or Path Dropdown:

- BAIS.LIVE
- Select ---
- BA.LOGINNET
- BA.SOURCE.RELNET
- BAIS.GL.LIVE
- BAIS.LIVE**
- BAIS.PF.GL.LIVE
- BAIS.PF.LIVE
- BAIS.SHR.LIVE
- DBINET.UPG
- DBINETLOGIN
- DESIGNBAIS.GL.LIVE
- DESIGNBAIS.LIVE
- DESIGNBAIS.PF.GL.LIVE
- DESIGNBAIS.PF.LIVE
- DESIGNBAIS.SHR.LIVE

Click the highlighted columns *Data Path* or *Dict Path* in order to load the selected row value into the *From Path* and *To Path*. Amend the *To Path* as needed. For example:

From Path: E:/HOME/DESIGNBAIS/DBI To Path: E:/HOME/DESIGNBAIS/DBINET

In general it is necessary to change all pointers that point to DBI so that they point to DBINET.

The change can then be applied using the Apply button. The results will be displayed. The buttons *Show All*, *Changed*, *Unchanged* allow you to see all pointers, just those that have been changed, or just those that are unchanged.

Use the *Add to Standard Conversions* button to save this change to the list of standard conversions for the project.

Each change can be applied and saved. At any point the *Restart* button can be clicked to return all pointers to their original state.

Click *View Standard Conversions* to view the saved conversion list. Change the *Sequence* as required to avoid a clash where a later conversion may apply unwanted changes to an earlier conversion result.

File and Q Pointer Conversion List

File and Q Pointer Conversion List

Submit

Sequence	List of From Paths	List of To Paths	Dict/Data
1	E:/HOME/DESIGNBAIS/DBI	E:/HOME/DESIGNBAIS/DBINET	Data
2	E:/HOME/DESIGNBAIS/DBI	E:/HOME/DESIGNBAIS/DBINET	Dict

The *Submit* button on the above form will save the File and Q Pointer Conversion List on DBIPARMS with a record id of *FP.CONV.LIST.project_name* where *project_name* is the project code.

You can *Apply* all required conversions, save them to a standard conversion list, then click *Restart* to return all pointers to their original state. This allows you to apply changes and back them out until you are satisfied that the conversions are correct and complete.

Clicking *Submit* will update the VOC file with the changes to both file and Q pointers. If the *Test Mode* check box is ticked, however, the changes that will apply are displayed but the VOC is not updated.

The *Show Only* button provides a filter to allow you to see only those pointers that match the string entered in the field adjacent to the button.

The *Exclude Pointers* button provides a way of filtering out particular pointers.

The *Hide Local Pointers* check box removes all local pointers from the display thus facilitating the assessment of pointers that point outside of the current account.

All of these buttons are designed to reduce the number of pointers displayed so as to make the task of assessing all pointers easier.

For iBais conversions all the accounts listed below will need to be reviewed:

- BA.SOURCE.REL
- XXX.LIVE
- XXX.GL.LIVE
- XXX.SHR.LIVE
- XXX.PF.LIVE
- XXX.PF.GL.LIVE

Form Menu Change

The form DBIUSERS_D50 displays Favorites and has been assigned a side menu of 'HIDDENSIDE' in DBIF.SIDE.MENU (attribute 66). This menu has Side Menu Width of zero. If you wish to see a menu on the Favorites form then the DBIUSERS_D50 form must be modified to remove the side menu setting. This will allow the form to use the existing displayed menu, inherited from a previous form.

Review Basic Code

You may want to amend your basic code in a way that allows it to run on both Release 7 or above and previous releases such as 6.33. This can be achieved by setting up code like the following:

```
IF FIELD(DBVERSION, '.',1) < 7 THEN;* <<R7>>
  * code here is executed in pre-release 7 installations
  CALL DBI.G.AUDIT.EXT('INSURER',DBKEY,AUDIT.REC,D.ACTION);* <<R6>>
END ELSE;* <<R7>>
  * code here is executed in release 7 and above installations
  CALL DBI.G.AUDIT.EXTNET('INSURER',DBKEY,AUDIT.REC,D.ACTION);* <<R7>>
END;* <<R7>>
```

DBVERSION has the form shown below in Release 7 and above. If you find that DBVERSION is not set in pre-Release 7 you can set it in your initialization subroutine.

Line #	Common Variable Content
1	DBVERSION = '8.5.1.4300'

DBREPORTLIST

In Release 7 and above do not include the base report name in the DBREPORTLIST variable. Only add additional report names.

```
*
BEFORE.REPORT:
  OLD.IMAGE = 'BAIMAGES\BAWEBLOGO.GIF'
  CALL DB.G.IMAGESPEC(OLD.IMAGE, NEW.IMAGE)
  BEGIN CASE
    CASE EVENTSOURCE = "APRA701"
      IF FIELD(DBVERSION, '.',1) < 7 THEN;* <<R7>>
        DBREPORTLIST = "BKAPRA701_APRA701":@VM:"BKAPRA701_APRA.EXTRACT.INFO"
      END ELSE;* <<R7>>
        DBREPORTLIST = "BKAPRA701_APRA.EXTRACT.INFO"
      END;* <<R7>>
    END CASE
  END CASE
  RETURN
*
```

Review .asp Usage

Using the *Find String* tool in the *Upgrade/Migration Tools* menu, search for any occurrence of the following strings in each of the Basic Library files (usually DBLIB):

Target String	Replacement String
webremote.asp	dbnet.aspx
webRemote.asp	dbnet.aspx
returndb.asp	return.aspx
dbweb.asp	dbnet.aspx

Use the same tool to search the Basic Library for the strings “asp” and “ASP” and review any occurrences to check if they may need to be changed.

SESSION.ID and URL

Using the *Find String* tool in the *Upgrade/Migration Tools* menu, search for any decoding of the following common variables in each of the Basic Library files (usually DBLIB):

SESSION.ID (a unique number that is used as a storage key for all activities associated with a browser session)
WEBSERVER (contains the full URL that was used to invoke DesignBais)

The DBSESSIONS file will have record ids that use the SESSION.ID concatenated to various strings.

In Release 7 and above the SESSION.ID is a string like this: 17569592af46470a9913fe1db0ee4bc8
In pre-release 7 the SESSION.ID looks like this: 699.18243.606767349.32761

DBSESSIONS Id example:

699.18243.459577648.33039*DBIS.COMMAND*COMBO – pre-Release 7

2116bf0abb9e4e2cac45da85c0e6e139*DBIF.TOP.MENU*COMBO – Release 7 and above

Look for any basic code that is relying on the form of the SESSION.ID or the WEBSERVER common variables and ensure that the code will function correctly in the Release 7 and above environment.

For example code that executes any of the following commands that rely on the position of the field separator may need adjustment: FIELD, INDEX, OCONV, DCOUNT.

Website Images for Release 7 and above

Before testing the converted application ensure that all required images have been loaded into the Release 7 and above website images folder. Ideally images for an application will be in a subfolder under the images folder in which case this subfolder can be copied into the images folder. If this is not the case then all images in the source images folder will need to be loaded into the Release 7 and above images folder. Review any clashes where an image name already exists in the Release 7 and above folder.

DBREPORT.UPDATE check

DBREPORT.UPDATE expects *JavaScript* style properties only. The “~|” string must be used to separate style property and its value.

You must therefore use “backgroundColor” **not** “background-color”.

Two multivalues are required in DBREPORT.UPDATE for 2 style settings.

DBREPORT.UPDATE<5, n> display attributes cannot to be populated in the way that OUTPUT.ATTR is populated when creating the initial on-form report.

If more than one style property is to be changed, a unique value is required for each of the DBREPORT.UPDATE fields. For example if you wish to change the colour of a cell that the user has clicked to, say, a yellow background with red data then the following code demonstrates how this should be done:

```
ROW = FIELD(DBREPORT.CELL,".",1)
COL = FIELD(DBREPORT.CELL,".",2)
```

```
DBREPORT.UPDATE = ""
DBREPORT.UPDATE<1,1> = "R.SALES"
DBREPORT.UPDATE<2,1> = ROW
DBREPORT.UPDATE<3,1> = COL
DBREPORT.UPDATE<4,1> = "" ; * No change to data value
DBREPORT.UPDATE<5,1> = "backgroundColor~|yellow"
```

```
DBREPORT.UPDATE<1,2> = "R.SALES"
DBREPORT.UPDATE<2,2> = ROW
DBREPORT.UPDATE<3,2> = COL
DBREPORT.UPDATE<4,2> = "" ; * No change to data value
DBREPORT.UPDATE<5,2> = "color~|red"
```

PDF Issues

Check the permissions on the file: *DesignBaisPrint.css*

It will require that groups *Users* and *IIS_USERS* have **Full Control**.

This allows the PDF conversion software to include the file in the PDF.

Style Groups

Check form style groups. Note that Upgrade Routine 17 does this.

- If the **MV Output** style has not been entered then set it to **dbaisMVOutput**.
- If **Report Border Class** has not been entered then set it to **dbaisReportBorder**.

Style Names

Style names containing a “.” do not work in Release 7 and above. This is because the “.” is a standard css separator.

Upgrade Routine 8 will convert say *NORMAL.ARIAL8* to *NormalArial8* and update all style groups, forms, selects and reports.

Style Overflow

DesignBais allows developers to control the text overflow of a field. By default DesignBais will contain the text within the element. If, however, the string *overflow* is found in the style record that applies to the field then DesignBais will not add *overflow:hidden* to the xml string. The code snippet below clarifies DesignBais action in relation to white-space, overflow and word-wrap.

```
*
* Check Style Insert for white-space, overflow & word-wrap
*
  IF WS.REQ AND INDEX(STYLE.INS,'white-space',1) = 0 THEN
    IF HDRIDNAME = '' THEN
      STYLE.INS := 'white-space:nowrap;';
    END ELSE
      STYLE.INS := 'white-space:normal;';
    END
  END
  IF OF.REQ AND INDEX(STYLE.INS,'overflow',1) = 0 THEN
    STYLE.INS := 'overflow:hidden;';
  END
  IF WW.REQ AND (INDEX(STYLE.INS,'word-wrap',1) = 0 AND INDEX(STYLE.INS,"overflow-
wrap",1) = 0) THEN
    STYLE.INS := 'overflow-wrap:break-word;';
  END
  RETURN
```

If a DesignBais field displays unwanted overflow then the developer should check which style is being used and check if overflow is enabled in the style record. Remove any reference to *overflow*.

Subroutine Name Changes – “NET” Suffix

Many DesignBais subroutines have had the suffix “NET” added to the name. This was done to allow both the v6 and the Release 7 and above versions to be catalogued in the same account.

Check for the use of DesignBais subroutines and ensure that the Release 7 and above version is being called.

The DBI file contains the v6 routines. Release 7 and above routines are held in the file DBINET.

Example: DBI.G.OPEN in v6 has become DBI.G.OPENNET in Release 7

The following routines that may have been used in application programs have an equivalent routine in Release 7 and above where the name is suffixed with "NET":

DBI.G.AUDIT.EXT
DBI.G.CHECKSUM
DBI.G.DYNAMIC.FORM
DBI.G.EOP.DATA
DBI.G.INITVARIABLES
DBI.G.OPEN
DBI.G.RSNAP
DBI.G.SELECTP
DBI.G.SOUNDX
DBI.G.TSNAP
DBI.I.STARTPRINT
DBI.P.ACCOUNT.SETUP.UNIX
DBI.P.ACCOUNT.SETUP
DBI.P.DBIPURGE
DBI.P.EOP
DBI.P.FIX.SELECTION
DBI.P.LOAD.STYLES
DBI.P.UPDATE.ACCOUNT
DBI.P.UPDATE.STYLES

DBW3C

In Release 7 and above this common variable is always set to 3.

In previous releases it may have been used to indicate internal or external browser access.

A value of zero in DBW3C indicated commercial grade. A value of 1 was the old W3C mode. A value of 3 was Ajax mode.

Under Release 7 and above basic code that functioned correctly in Version 6 may have to be amended to check the url for a string "&ac=" rather than use the value in DBW3C.

Events and Event Sequence

Applications may exhibit different behaviour between Version 6 and Release 7 and above due to either a different sequence of events or a different event being triggered.

If you encounter differences in the way the application runs then check which events are being triggered.

For example:

When the *Mandatory Field* is not checked there is no *onfocus="vs(event);"*:

Process Before	<input type="text"/>	Parameter	<input type="text"/>
Process After	<input type="text" value="DB.I.JL"/>	Parameter	<input type="text"/>
Mandatory Field	<input type="checkbox"/>	Change Event Will Fire	<input type="text" value="On Key Press"/>

```
<input tabindex="6" type="TEXT" class="I2Input" style="height:34px;z-index:1;position:absolute;left:153px;top:190px;width:250px;text-align:left;" onkeydown="sendKeys(event);" onblur="predictBlur(event);" prediv="rdesignbaisdropv1" id="text6v1" name="DbclientDbcClientName" value="" lastval="">
```

With Mandatory Field checked:

Process Before	<input type="text"/>	Parameter	<input type="text"/>
Process After	<input type="text" value="DB.I.JL"/>	Parameter	<input type="text"/>
Mandatory Field	<input checked="" type="checkbox"/>	Change Event Will Fire	<input type="text" value="On Key Press"/>

```
<input tabindex="6" type="TEXT" class="I2InputMandatory" style="height:34px;z-index:1;position:absolute;left:153px;top:190px;width:250px;text-align:left;" onfocus="storeValue(this);" dbmandatory="1" onchange="validateEntry('text6v1',event,true,true,'Name is mandatory');" onkeydown="sendKeys(event);" onblur="predictBlur(event);" prediv="rdesignbaisdropv1" id="text6v1" name="DbclientDbcClientName" value="" lastval="">
```

DBI.G.SENDEMAIL

This subroutine is used to send an email from a DesignBais application.

Note that there are additional attributes in 2 of the arguments:

EMAIL.FROM<2>	The sender's name such as a friendly name: e.g. "The DesignBais Team".
EMAIL.FROM<3>	The reply to email address.
EMAIL.CC<2>	Email address for blind copies.

Using email within DesignBais requires the db.config file to be set up. Refer to the Web Component Manual. In summary you must set the values in *admin/db.config* (the following shows example data – replace with your settings):

```
<smtpHost>192.168.199.1</smtpHost>
<smtpPort>25</smtpPort>
<smtpEnableSsl>>false</smtpEnableSsl>
<smtpHTMLFormat>>true</smtpHTMLFormat>
<smtpLogin></smtpLogin>
<smtpPassword></smtpPassword>
```

Note that if an external email server is used then that server should allow relaying of emails originating from the web server.

Usage:

DBI.G.SENDEMAIL(EMAIL.TO,EMAIL.FROM,EMAIL.CC,EMAIL.ATTACHMENT,EMAIL.SUBJECT,EMAIL.MESSAGE)

There are six parameters associated with the call.

EMAIL.TO	The email address of the recipient. Multiple addresses can be separated by “;”
EMAIL.FROM	The email address of the sender.
EMAIL.FROM<2>	The sender's name such as a friendly name: e.g. "The DesignBais Team".
EMAIL.FROM<3>	The reply to email address.
EMAIL.CC	Email address for copies.
EMAIL.CC<2>	Email address for blind copies.
EMAIL.ATTACHMENT	The filename of any attachment.
EMAIL.SUBJECT	The subject of the email.
EMAIL.MESSAGE	The message content on the email. The message can be attribute mark delimited for multi-line.

DesignBais email functionality can be tested using the test page <admin/emailTest.aspx>.

Dialog boxes DBI.G.DIALOG

In Release 7 and above the following applies:

Buttons
0 OK button only.
1 OK and Cancel.
2 Abort, Retry, and Ignore – not implemented, mapped to option 3.
3 Yes, No, and Cancel.
4 Yes and No.
5 Retry and Cancel – not implemented, mapped to option 1.

Icons and Default Buttons are implemented again from Release 7.5.1.1. Refer to the Demo form called DBDEMO_DIALOG in DBINET.DEMO.

DesignBais Release 7 and above includes an alternative Dialog Box method which allows up to 5 buttons on the dialog box form. See the DesignBais Reference Manual.

When migrating from Version 6 and older releases developers must review dialog boxes that use the following features of Version 6:

The four parameters associated with the dialog subroutine are defined as follows:

DBBUTTON.CONFIG – pre Release 7 / 8

Buttons	Icon	Default Button
0 OK button only.	16 Critical Message (Stop sign)	0 First button is the default.
1 OK and Cancel	32 Warning Query (Question)	256 Second
2 Abort, Retry, and Ignore	48 Warning Message (Exclamation)	512 Third
3 Yes, No, and Cancel	64 Information Message (i)	768 Fourth (only in V6)
4 Yes and No		
5 Retry and Cancel		

Add the numbers to create the desired dialog configuration.

Example: $32 + 3 = 35$

32 displays a question mark icon

3 displays YES NO and CANCEL buttons.

If we add 256 to this then the second button (NO) becomes the default button. That means if the users presses the ENTER key rather than clicking a button, the second button is treated as the default response.

If the users clicks **X** to close the dialog this action is always treated as a CANCEL (even when there is no CANCEL button is present on the dialog). Therefore, it is important to always check for this condition.

DBDIALOG.TEXT

The text to appear in the dialog window

DBDIALOG.PROG

The BASIC subroutine to call after the user clicks a dialog button

DBDIALOG.PARAMETER

The entry point within the BASIC subroutine to be used as a reference. This parameter updates the common variable PROCESS.EVENTSOURCE, which can be used within a BASIC subroutine.

The variable PROCESS.PARAMETER contains the value of the button that was pressed.

The responses assigned to PROCESS.PARAMETER are:

- 1 OK button was clicked.
- 2 Cancel button was clicked.
- 6 Yes button was clicked.
- 7 No button was clicked.

Note that the responses below are not available in Release 7:

- 3 Abort button was clicked (pre-Release 7 only).
- 4 Retry button was clicked (pre-Release 7 only).
- 5 Ignore button was clicked (pre-Release 7 only).

Use of DesignBais Common Variables

Developers who have used DesignBais Common Variables in their basic code may find that in Release 7 and above these variables are not populated in the same manner as Version 6.

This applies to variables that are not documented in the DesignBais Reference Manual.

An example is **SESSION.REC** attribute 8.

In Release 7 and above SESSION.REC<8> contains the form name that called the current form while in Version 6.99 it contains the current form name.

It is not recommended that SESSION.REC be used by developers within their basic subroutines.

Print Thru Function

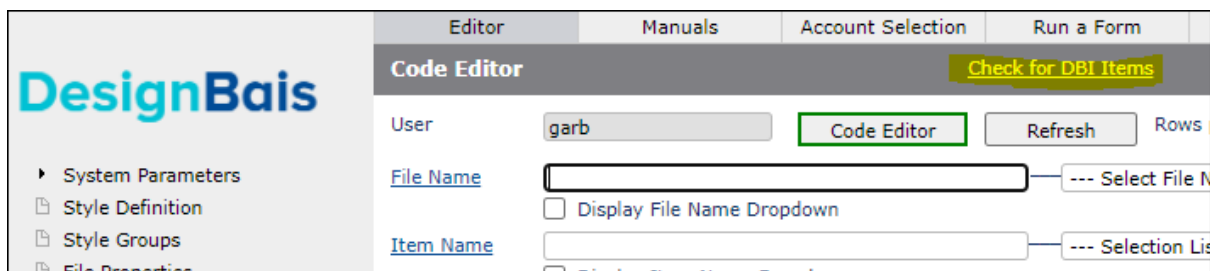
The Print Thru function allowed existing reports to print directly through to the client printer.

This function is no longer available in DesignBais Release 7 and above.

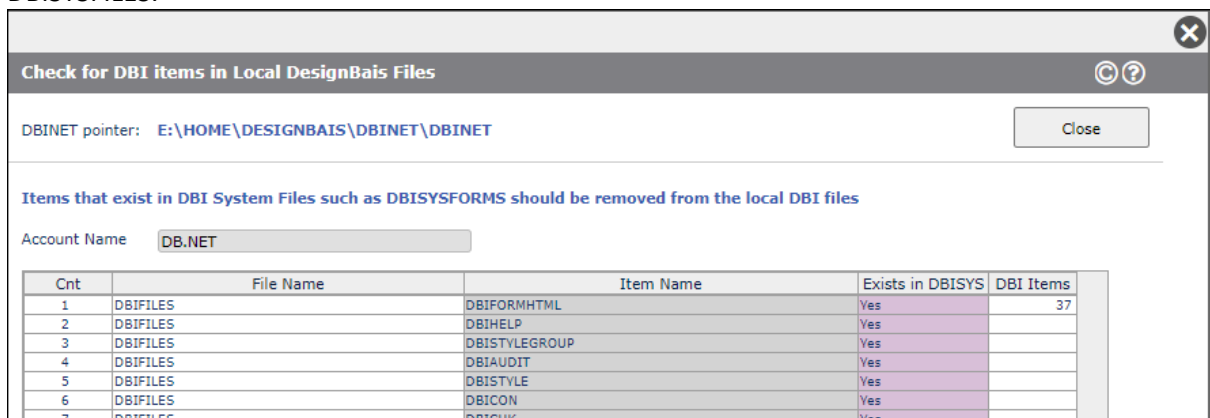
Remove DBI forms and selects from DBI Files

As with any standard upgrade of DesignBais it is essential to remove from the DBIFORMS, DBISELECT and DBIPROP files any forms, selects or properties that belong to a DBI type file. DesignBais forms and associated elements are installed within the four DBISYS files. If local versions of DesignBais forms and associated elements exist in the local DBI files then the new version from DBISYS files will not be accessed. The developer will see the old release version. The presence of DBI type items in the local DBIFORMS or DBIFILES files can cause forms not to work at all.

There is a button on the Code Editor form named *Check for DBI Items*. Use this to check for DBI type items in your local DBI files.



The example below shows that there are items in the local DBIFILES file that also exist in DBISYSFILES.



The *Exists in DBISYS* column should be *No* for all items.

Usually DBI forms are in the local file by accident. If so then simply delete them. If DBI forms have been modified and placed in the local DBIFORMS file then the modifications will need to be re-applied to the new version of the form after extracting it from the DBISYS file.

New Dictionaries in local DBI Files

DBI files may reside in the working accounts to be migrated. In general they should not be in the user data account but if they need to be then the following action will be required.

For example:

```
SORT DBIFILES = "DBI]" 05:30:49pm 03 Aug 2017 PAGE 1
DBIFILES.....
```

```
DBIAUDIT.EXT
DBIUSERS
2 records listed.
```

```
>WHO
1020 dbinet.upg From SYDBA01\garb
```

In this example any new field properties for DBIUSERS and DBIAUDIT.EXT must be copied from DBISYSPROP into the local (existing) DBIPROP file. It is then necessary to do a dummy amend on the File Properties form for each file. This will re-build the field lists on DBIFILES records.

Note that there may be differences between the old and new properties of the DBI file. These differences need to be assessed. In the File Properties form there is a *Display DBISYSPROP Differences* button that displays any differences.

The screenshot shows the 'File Properties' form for a file named 'DBIUSERS'. The form includes fields for 'File Name', 'File Description', 'File Type', 'Number of Records', and 'Average record size'. A dialog box is open over the form, displaying the message 'No differences exist.' and an 'OK' button. A yellow highlight is on the 'Display DBISYSPROP Differences' button. The bottom section of the form shows a table of 'Dropdown Select Statements'.

Dropdown Select Statement	Sequence	Result	Null Description (# not default)	Affected by Security
SSELECT DBIUSERS BY DBIU.LAST.NAME	1			

Hit Blocker

This feature was added in Release 7.

The system hit blocker action is set in Global Login Parameters and in System Parameters.

Global User Default Login Parameters	
Login Image	<input type="text" value="db/dbLogo.jpg"/>
Minimum Password Length	<input type="text" value="3"/>
Mixed Case Mandatory	<input type="checkbox"/>
Special Character Required	<input type="checkbox"/>
Password History Check	<input type="text" value="5"/>
Failed Login Attempts Allowed	<input type="text" value="10"/>
Failed Login Attempt Delay	<input type="text" value="1"/>
Include Help Button	<input type="checkbox"/>
Allow Email of Temporary Password	<input checked="" type="checkbox"/>
Email From Address	<input type="text" value="bob2@bais.com.au"/>
Temporary Password Use Within	<input type="text" value="120"/> minutes
Default Login Screen Heading	<input type="text" value="DesignBais Security"/>
Login Screen Description	<input type="text" value="The server requires a username and password"/>
Subroutine to Call Before Login	<input type="text"/>
Session Timeout	<input type="text" value="1,200"/>
Timeout Action	<input type="text" value="New Session"/>
Timeout Message	<input type="text" value="Yes"/>
Hit Blocker Mode	<input type="text" value="0 Element not disabled. Subsequent events are sent."/> <ul style="list-style-type: none">0 Element not disabled. Subsequent events are sent.1 Element not disabled. Subsequent events are blocked.2 Element disabled but enabled on return. Subsequent events sent.3 Element disabled but enabled on return. Subsequent events blocked.4 Element disabled & kept disabled. Subsequent events sent.5 Element disabled & kept disabled. Subsequent events blocked.
Show Popup Calendar	
Suppress Focus	
Asynchronous Mode	
Auto Logon	<input type="text" value="Yes"/>
<input type="button" value="Submit"/>	

System Parameters			
Type of Database	UniVerse	Version	11.2.5
Web Component	8.5.1.4300	Data Component	8.5.1.1
System Description	DB.NET Development		
System Logo	db/dbLogo.jpg		
Email From Address	support@bais.com.au		
Date Format	d/m/yyyy,D4/,1	Custom Logging	
Keyboard Driven Searches	<input type="checkbox"/>	Encode HTML	-- Inherit --
Center All Forms	-- Inherit --	Report Encode HTML	-- Inherit --
Lock Release Audit File	LOG.LOCK	Phantom Log Days	8
Show Popup Calendar	-- Default --	Suppress Focus	-- Inherit --
Max Rows per OFR Page	1000	Asynchronous Mode	-- Inherit --
Hit Blocker Mode	-- Inherit Global Setting --		
Glossary, IP Range, Auto L	-- Inherit Global Setting --		

0 Element not disabled. Subsequent events are sent.
 1 Element not disabled. Subsequent events are blocked.
 2 Element disabled but enabled on return. Subsequent events sent.
 3 Element disabled but enabled on return. Subsequent events blocked.
 4 Element disabled & kept disabled. Subsequent events sent.
 5 Element disabled & kept disabled. Subsequent events blocked.

	Glossary	Av
FR	FRENCH	
G1	GREEK	

The system setting can be overridden at field level.

Button Definition

Button Name: B.SUBMIT Default Field Name: Load Clear

Field Text: Submit B.SUBMIT - Submit

Section: Submit

Row: 10 Column: 600 Row span: 20 Column Span: 90 [Recalculate](#)

Process After: _____ Parameter: _____

Display Class: _____

Return to Field: OBC.CLIENT.CODE

Z-Index Order: _____

Close Modal Window: Field Disabled: **Field Hit Blocker Mode**

Custom Attributes: _____

Field After Script: _____

-- Inherit Setting --

0 Element not disabled. Subsequent events are sent.
 1 Element not disabled. Subsequent events are blocked.
 2 Element disabled but enabled on return. Subsequent events sent.
 3 Element disabled but enabled on return. Subsequent events blocked.
 4 Element disabled & kept disabled. Subsequent events sent.
 5 Element disabled & kept disabled. Subsequent events blocked.

If you encounter problems in Release 7 and above such as the loss of a button click event then this could be due to the hit blocker function.

If hit blocking is set at the Global or System level then the field level setting may need to be set to *No Blocking* in order to achieve the required functionality.

Review Styles used on the Form Style Group

Most existing DesignBais sites will use a particular Style Group on all or most of their forms.

The Upgrade Routine 17 (17 Update Style Groups that contain attributes with no defined Style) will locate blank styles on all the existing style groups that are found to be used on forms and load into these the style definition that is used for this feature in Release 7 and above.

This means that, for example, if the Style Group on the site has nothing in the “Input (Mandatory)” slot then Upgrade Routine 17 will put “dbaisInputMandatory” into this slot.

Note that the upgrade does not replace any existing styles in the group. When you review the look of the forms after conversion you may have to manually replace some styles within the style group with the standard Release 7 and above styles in order to achieve a good look.

Standard Release 7 and above Form Style Group “dbaisWeb” looks like this:

The screenshot displays the 'Style Group Definition' window for the 'dbaisWeb' group. The window is titled 'Style Group Definition' and includes buttons for 'Submit', 'Clear', 'Delete', 'Copy', and 'Analyse Styles'. The 'Group' field is set to 'dbaisWeb' and the 'Forms Designer Default' is 'dbaisWeb'. The interface is divided into several sections:

- Style Attributes:** A list of attributes on the left with corresponding input fields on the right. Attributes include 'Label', 'Label Bold', 'Label Highlight', 'Label Header', 'Label Break', 'Label Output', 'Output Text', 'Input (Normal)', 'Input Bold', 'Input Highlight', 'Input (Mandatory)', 'Default Button Class', 'Enter Key Button', 'Default Check Box Class', 'Default Radio', 'Default Image Class', 'Background', 'Body Style/Class', and 'Lockdown Background Color'.
- User Definable Styles:** A section titled 'User Definable Styles' with a list of 'User Style 1' through 'User Style 10' and their corresponding style names in input fields.
- Additional User Styles:** A section titled 'Additional User Styles' with a list of 'dbaisSelectAwesome' and other styles.
- Modal Settings:** A section for 'Modal Frame' settings, including 'Modal Title', 'Modal Close Shell', 'Modal Close Button', 'Modal Include Close', and 'Modal Include Title'.

At the bottom of the window, there are buttons for 'Submit', 'Clear', 'Delete', 'Report Controls', 'MV Controls', 'Defaults', and 'Dialog'. The 'Submit' button is highlighted with a green border.

As an example the converted Style Group “DBIWEB” may look similar to this after conversion (note that this snip shows the old form of the Style Group display):

Style Group Definition		Submit	Clear	Delete	Copy
Group	DBIWEB				
Label	NORMAL	User Style 1	BOLD.RED		
Label Bold	BOLD	User Style 2	dbaisMouseOverCompare		
Label Highlight	GREYHIGHLIGHT	User Style 3	dbaisUserStyle3		
Label Header	MAINHEADER	User Style 4	dbaisLabelRad		
Label Break	GREYBREAK	User Style 5	dbaisUserStyle5		
Label Output	GREYBACKGROUND	User Style 6	dbaisUserStyle6		
Input (Normal)	NORMAL.INPUT	User Style 7	dbaisUserStyle7		
Input Bold	BOLD	User Style 8			
Input Highlight	HIGHLITE	User Style 9			
Input (Mandatory)	dbaisInputMandatory	User Style 10			
Multi-value Header	dbaisMVHeader				
MV Header Mouseover					
Multi-value Input Cells	dbaisMVInput				
Multi-value Cells (Even Rows)	dbaisMVInput2				
MV Input (Mandatory)	dbaisMVInputMandatory				
MV Input (Even Rows) (Mandatory)	dbaisInputMandatoryEven				
MV Output Cells	dbaisMVOutput				
MV Input Control	dbaisMVCross				
Click Event Column Color	GREYHIGHLIGHT				
Multi Selection Indicator or Checkbox	BLUEBACKGROUND				
MV Border Class	dbaisMVBorderClass	MV Top Left Text			
MV Top Left Class	dbaisMVTopLeft	MV Add Text	<i title="Click to Add a Row		
MV Add Button Class		MV Delete Text	<i title="Click to Delete this		
MV Delete Button Class		MV Insert Text	<i title="Click to Insert a R		
MV Insert Button Class					
Report Border Class	dbaisReportBorder				
Report Header	Verdana8LightGreyBackGround				
Report Body	Verdana7Normal				
Report Mouseover	dbaisDefaultMouseOver				
Background	white				
Lockdown Background Color	wheat				
Default Button Class	BUTTONdbaisDefault				
Body Style/Class					
Modal frame					

DesignBais Code Editor

The Code Block Controls section of the System Parameters provides the ability to determine the statements to be executed by the Code Editor when the compile or delete option are used.

In the case of UniData, for example, depending on whether your site runs with direct, local, or global cataloging, it may be necessary to add or amend the *Compilation and Catalog Statements*.



For example if a site is using local or global cataloging and your parameters define *CATALOG DIRECT* then you may need to add *FORCE* to the statement. The Code Editor may appear to hang, indicating that it is waiting on a response to the prompt shown below:

```
CATALOG DBINET DBI.I.FP
C:\U2\ud81\sys\CTLG\d\DBI.I.FP has been cataloged, do you want to overwrite?(Y/N)
)_
```

Adding *FORCE* overcomes this problem.

```
File : DBINET Record : DBI.I.FP Compiled at 15:39
[BASIC DBINET DBI.I.FP]

Compiling Unibasic: C:\DESIGNBAISNET\BA\DBINET\DBINET\DBI.I.FP in mode 'p'.
compilation finished

[CATALOG DBINET DBI.I.FP DIRECT FORCE]
```

DesignBais Release 7 and above db.config Setup and Login

The DesignBais Initialisation Error “Default login form not found” may occur because the designated start form does not exist in DBIFORMS or DBISYSFORMS in the designated start account. This section explains why the error occurs and explains how to set up the db.config file in Release 7 and above.



```
<entryPoint qcode="">
  <loginHost>192.168.199.9</loginHost>
  <BASUBROUTINE>BAWEBEXECNET</BASUBROUTINE>
  <loginHostType>UNIVERSE</loginHostType>
  <loginAccount>DB.NET</loginAccount>
  <loginUser>dbnetuser</loginUser>
  <loginPassword>password</loginPassword>
  <loginPublicUser>dotnetdev</loginPublicUser>
  <requestTimeoutSeconds>30</requestTimeoutSeconds>
  <debugUser>dotnetdev</debugUser>
  <enableXSSshield>>false</enableXSSshield>
  <allowDomainNamesInLoginNames>>false</allowDomainNamesInLoginNames>
  <convertLoginNamesToLowercase>>true</convertLoginNamesToLowercase>
  <enableDetailedErrorMessages>>true</enableDetailedErrorMessages>
</entryPoint>
```

Note that Windows authentication authenticates the user by validating the credentials against the user account in a Windows domain. Basic authentication verifies the credentials that are provided in a form against the user account that is stored in a database.

The *loginUser* must be a valid Windows user and the *loginPassword* must match the Windows password. This provides the credentials to satisfy Windows Authentication.

The *loginPublicUser* controls what DesignBais does after authenticating the login. DesignBais will read the DBIUSERS record for the user specified by *loginPublicUser*. The DBIUSERS record must specify at least one start account and start form. DesignBais will display the first start account / start form from the list of start accounts for the user. The start form must exist in that start account otherwise the “Default logon form not found” error will display.

In practice it may be a valid start form name but it is not present in the start account specified.

The DesignBais session will be logged in as the user specified in *loginPublicUser*, which in this example is *dotnetdev*.

Note that a null *qcode* value is supplied as in the above example. This is the path followed by a url that specifies just the name of the DesignBais website. In order to allow for different users to login set up an *entryPoint* that specifies a value in *qcode*.

```
<entryPoint qcode="garb">
  <loginHost>192.168.199.9</loginHost>
  <BASUBROUTINE>BAWEBEXECNET</BASUBROUTINE>
  <loginHostType>UNIVERSE</loginHostType>
  <loginAccount>DB.NET</loginAccount>
  <loginUser>dbnetuser</loginUser>
  <loginPassword>dbnetuser</loginPassword>
  <loginPublicUser>garb</loginPublicUser>
  <requestTimeoutSeconds>60</requestTimeoutSeconds>
  <debugUser>garb</debugUser>
  <enableXSSshield>>false</enableXSSshield>
  <allowDomainNamesInLoginNames>>false</allowDomainNamesInLoginNames>
  <convertLoginNamesToLowercase>>true</convertLoginNamesToLowercase>
  <enableDetailedErrorMessages>>true</enableDetailedErrorMessages>
</entryPoint>
```

This allows the *loginPublicUser* to be a specific user thus allowing for a different start account / start form combination. The url will need to be something like:

<https://name.com.au/TestWebSite/?ac=garb>

In a UniData database the DBIUSERS user start account path and name must match exactly, including case, the account path and name specified in the db.config file.

Setting Up Public User Logins in DesignBais Release 7 and above

1. Amend your db.config file by adding an entry similar to this:

```
<entryPoint qcode="public">
  <loginHost>192.168.0.7</loginHost>
  <loginHostType>UNIVERSE</loginHostType>
  <loginAccount>DBINET.DEMO</loginAccount>
  <loginUser>dbnetuser</loginUser>
  <loginPassword>password</loginPassword>
  <loginPublicUser>public</loginPublicUser>
</entryPoint>
```

2. Set up a DesignBais user record for "public". You do **not** need a windows user record of "public". This user does not have to called "public", any user name can be used.
3. This user record can use the public login form provided with DesignBais or a custom login form. The example below uses the DesignBais login form **DBIGLOBAL_D21**. The form can be in any account. It is a good idea to set up a specific account for this.

The screenshot shows the 'User Maintenance' interface. At the top, there are buttons for 'Submit', 'Clear', and 'Delete'. The user details for 'public' are as follows:

User	public	Inactive	<input type="checkbox"/>	Actions	--Select--
First Name	PUB	Date of Last Change	09/06/2021		
Last Name	LIC	Time of Last Change	21:16:15		
Display Name	PUBLIC USER	Changed by Who	garb		

Below the user details, there is a 'Group List' section with a table:

Group	Only in Account or Path
Development Group.	

Other fields include: Multiple Locations (Yes), Email Address (bob2@bais.com.au), and Contact Phone Number.

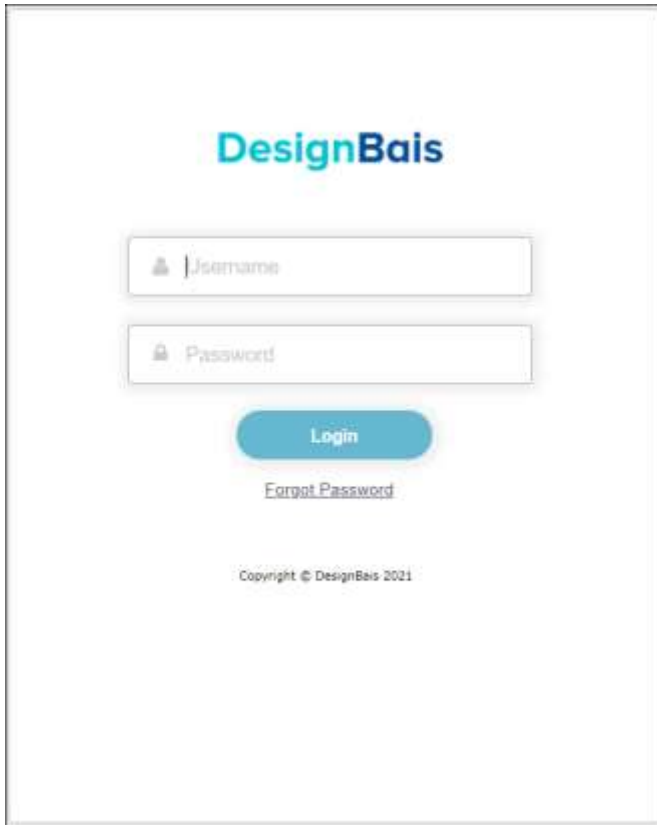
At the bottom, there is a table for account information:

Account or Account Path	Start Form	Start Process - Form Load
DB.NET	DBIGLOBAL_D21	

Give external users the url to connect to the DesignBais web server. It will be something like:

<https://mywebsite.com.au/dbnet?ac=public>

The login form allows the user to enter credentials which are authenticated against the record in the DesignBais users file for that user.



If this error is displayed at any time it indicates that the web and data components of DesignBais are not in sync. The first two digits of the release number must match.



4. Set up DesignBais user records for all external public users.
5. When an external user first logs in they enter their user id and then a password. As long as that password meets the password security requirements then that becomes their password and is held on the DesignBais user record.
6. Ensure that you set up the user email address on the DesignBais user record. Then if the user clicks the "*Forgot Password*" button then a temporary password will be emailed to them.
7. They can use this password to log in and must then reset their password.

The public login form displays because it is the first start form in the list for the “public” DesignBais user record.

8. The following example shows a user “nettex”.

Set up an appropriate DesignBais User Group called, for example, “Agents” and assign your external users to that group. The user record “nettex” is in the Development Group in this example.

So when the user enters “nettex” and the password in the login form control passes to the first form in the list of start accounts for the user. In this example the form is **DBCLIENT_DEMO** in account **DBINET.DEMO**

The screenshot shows the 'User Maintenance' interface for a user named 'nettex'. The user's details include: First Name: Nettex, Last Name: Nettex, Display Name: Nettex, Inactive: , Date of Latest Changed: 30/11/2017, Time of Last Change: 11:00:46, and Changed by Who: dbnetuser. The user is assigned to the 'Development Group'. The 'Entry Accounts/Forms' section shows a table with the following data:

Account or Account Path	Start Form	Start Proj
DBINET.DEMO	DBCLIENT_DEMO	
UTILDB	UTTOOL_SSSTART	

Setting the requestTimeoutSeconds and debugUser

The parameter "*requestTimeoutSeconds*" is for all hits and it cannot be set for a particular function.

The *requestTimeoutSeconds* can be set to a large value but doing so impacts on the overall system scalability. The developer should aim to find the lowest possible value for the application. The Microsoft recommendation (and the IIS default) is 90 seconds. DesignBais default is 20sec (if *requestTimeoutSeconds* is not specified) and maximum is 500sec.

The *debugUser* does not have to be a windows user. It can be an application user name, such as a user id from the DesignBais user file.

debugUser is used to log all communication for a that user in debug.txt until the size of debug.txt reaches 1 MB. This is useful for tracking down problems.

```
<entryPoint qcode="">
  <loginHost>192.168.199.9</loginHost>
  <BASUBROUTINE>BAWEBEXECNET</BASUBROUTINE>
  <loginHostType>UNIVERSE</loginHostType>
  <loginAccount>DB.NET</loginAccount>
  <loginUser>dbnetuser</loginUser>
  <loginPassword>dbnetuser</loginPassword>
  <loginPublicUser>dotnetdev</loginPublicUser>
  <requestTimeoutSeconds>30</requestTimeoutSeconds>
  <debugUser>dotnetdev</debugUser>
  <enableXSSshield>>false</enableXSSshield>
  <allowDomainNamesInLoginNames>>false</allowDomainNamesInLoginNames>
  <convertLoginNamesToLowercase>>true</convertLoginNamesToLowercase>
  <enableDetailedErrorMessages>>true</enableDetailedErrorMessages>
</entryPoint>
```

DB Connection User must be a local user not a domain user

The connection user must be an administrator on both the IIS & Database servers, and the connection user cannot be a domain user. Change this to be a local user on both the IIS server and the database server.

Below is an example of an error encountered when attempting to generate a PDF when the connection user is a domain user.

HTTP Error 401.1 - Unauthorized

You do not have permission to view this directory or page using the credentials that you supplied.

Most likely causes:

- The username supplied to IIS is invalid.
- The password supplied to IIS was not typed correctly.
- Incorrect credentials were cached by the browser.
- IIS could not verify the identity of the username and password provided.
- The resource is configured for Anonymous authentication, but the configured anonymous account either has an invalid password or was disabled.
- The server is configured to deny login privileges to the authenticating user or the group in which the user is a member.
- Invalid Kerberos configuration may be the cause if all of the following are true:
 - Integrated authentication was used.
 - the application pool identity is a custom account.
 - the server is a member of a domain.

Things you can try:

- Verify that the username and password are correct, and are not cached by the browser.
- Use a different username and password.
- If you are using a custom anonymous account, verify that the password has not expired.
- Verify that the authenticating user or the user's group, has not been denied login access to the server.
- Verify that the account was not locked out due to numerous failed login attempts.
- If you are using authentication and the server is a member of a domain, verify that you have configured the application pool identity using the utility SETSPN configuration so that NTLM is the favored authentication type.
- Create a tracing rule to track failed requests for this HTTP status code. For more information about creating a tracing rule for failed requests, click [here](#).

Detailed Error Information:

Module	BasicAuthenticationModule	Requested URL	http://192.168.170.23:80/tpsvenddev/uploadsin/TSIVENDORWEBcxftxtlsgypsfad51ba184cd19b62952584dcff5d537311a.html
Notification	AuthenticateRequest	Physical Path	C:\dbwebsites\tpsvenddev\uploadsin\TSIVENDORWEBcxftxtlsgypsfad51ba184cd19b62952584dcff5d537311a.html
Handler	StaticFile	Logon Method	Not yet determined
Error Code	0x8007052e	Logon User	Not yet determined

More Information:

This error occurs when either the username or password supplied to IIS is invalid, or when IIS cannot use the username and password to authenticate the user. [View more information >>](#)

Microsoft Knowledge Base Articles:

Getting Started with DesignBais

DesignBais is a lot like SB+ or other development environments in terms of the application development. Follow the normal process:

- Create or Add your files
- Create or Import your dictionaries
- Create Forms by placing fields on a form
- Support the form via basic subroutine logic for validations and other processing

For those new to browser-based applications, however, it is critical to take account of the fact that on a browser the connection to the database is not persistent.

This means that program logic cannot flow top to bottom as it did in the like traditional Pick systems, where a validation may prompt the user for some input and then carry straight on to the next line of code.

With a browser based solution after every validation of button click that requires some action on the database, via the basic subroutine, will enter the top of the subroutine code and must be directed to the relevant section of the code.

This means that if your basic code requests the display of a dialog box to allow the user to provide some input then your code has to RETURN from the subroutine. When the next response from your subroutine is required, such as processing the input that was supplied by the user, the subroutine will be entered again at line 1. You have to control where it then goes. DesignBais allows for this by setting PROCESS.EVENT and PROCESS.EVENTSOURCE.

You will find how to utilize these common variables in the DesignBais Reference Manual. The Database Reference Manual explains all facets of the DesignBais toolset.

The DBINET.DEMO account is supplied with the full DesignBais download. This environment contains a list of forms that demonstrate various aspects of DesignBais. All forms can be accessed in the Forms Designer in order to see how they are constructed. The supporting basic subroutine source code is also supplied.

The Web Component Manual describes how to set up the website in which DesignBais will run including the IIS server set up.

There are blogs, and soon there will be videos, on our web site for the new Responsive Design component of DesignBais Release 8. Responsive Design allows you to develop forms that react to the size of the browser on which the application is running, from smart phone to iPad to full monitor size.

The DesignBais data component is like any other UniVerse data account.

- DBINET holds the object code, dictionary items, and forms for the toolset
- DBILOGIN holds centralized data for users and group security
- DBINET.DEMO & DBIHELPDESK are sample application accounts

The db.config file in the Admin folder of the web site tells the web site:

- the address of the database server (**loginHost**)
- the account to start in (**loginAccount**)
- the user (**loginPublicUser**)

```
<entryPoint qcode="">
  <loginHost>nnn.nnn.nnn.nnn</loginHost>
  <loginHostType>Universe</loginHostType>
  <loginAccount>DBINET.DEMO</loginAccount>
  <loginUser>DesignBais</loginUser>
  <loginPassword>DesignBais</loginPassword>
  <loginPublicUser>DesignBais</loginPublicUser>
  <requestTimeoutSeconds>60</requestTimeoutSeconds>
  <debugUser>DesignBais</debugUser>
  <enableXSSshield>>false</enableXSSshield>
  <allowDomainNamesInLoginNames>>false</allowDomainNamesInLoginNames>
  <convertLoginNamesToLowercase>>true</convertLoginNamesToLowercase>
  <enableDetailedErrorMessages>>true</enableDetailedErrorMessages>
</entryPoint>
```

The DBIUSERS file in the DBILOGIN account determines which form is displayed. Attribute 15 has a MV list of accounts that the user can access and attribute 16 has the associated start form.

For the above sample the user record for the public user “DesignBais” has:
015: DBINET.DEMO²DBIHELPDESK²JLTEST
016: DBCLIENT_DEMO²CSCLIENT_E10²DBIFORMS_DEVELOP

This means when we connect to *DBINET.DEMO* as *DesignBais* we run the *DBCLIENT* form *DEMO*. This form may have menus attached which then allow different forms to be run.

Consider a website called DBNET, the name that is used in the standard DesignBais download. The **qcode=""** entry point (refer to the db.config file shown above) means that the base URL <http://localhost/DBNET/> uses these parameters.

Other qcodes can be used via query string parameters e.g. <http://localhost/DBNET?ac=legj> would use the **legj** entry point configuration and would set the **loginUser** to *legj*.

```
<entryPoint qcode="legj">
  <loginHost>nnn.nnn.nnn.nnn</loginHost>
  <loginHostType>Universe</loginHostType>
  <loginAccount>DB.NET</loginAccount>
  <loginUser>legj</loginUser>
  <loginPassword>legjpassword</loginPassword>
  <loginPublicUser>DesignBais</loginPublicUser>
  <requestTimeoutSeconds>60</requestTimeoutSeconds>
  <debugUser>DesignBais</debugUser>
  <enableXSSshield>>false</enableXSSshield>
  <allowDomainNamesInLoginNames>>false</allowDomainNamesInLoginNames>
  <convertLoginNamesToLowercase>>true</convertLoginNamesToLowercase>
  <enableDetailedErrorMessages>>true</enableDetailedErrorMessages>
```

</entryPoint>

You can use Windows Authentication – the public user becomes the windows user and that user must be configured in DBIUSERS. Similarly Basic Authentication will challenge the user to login.

This is covered in the Web Component Manual.

To install on your development server follow the same steps as you did for the VM system. You may want the IIS component on your intranet server and set the config to point to the development database server.

The DBINET program DBI.P.ACCOUNT.SETUPNET will create pointers to the DesignBais files in any UV account.

Active User List - Maintenance ?

Total Active Users Developer Users Connectors in Use

User Login	Last Activity	Time	Current Account(s)	Sessions	Developer	Active	Click to Logout
dbnetuser	29 AUG 2019	14:34:43	DBINET.DEMO	1	Y	Y	

[User Summary](#)

Total Licences Development Licences Licenced Connectors
DesignBais Expiry Date Maintained Until Database

[Clear XML Log](#)

Copyright © DesignBais 2016

SB+ Conversion Tool

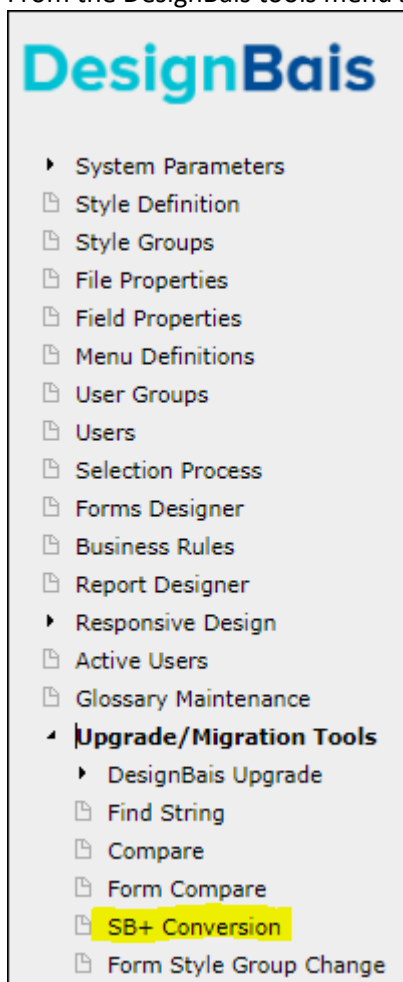
DesignBais provides a tool to assist with converting SB+ screens to DesignBais forms.

However it is recommended that developers consider that the better path to modernization of an application may be to review the current requirements and the desired user interface and to use the extensive DesignBais toolset to create an application that truly makes use of the features of today's browsers.

The conversion tools can assist you to produce a browser-based "copy" of a legacy application. This may give only limited benefits. To take full advantage of the latest technologies almost always requires re-working of an old application that has been running on "green screen" terminals.

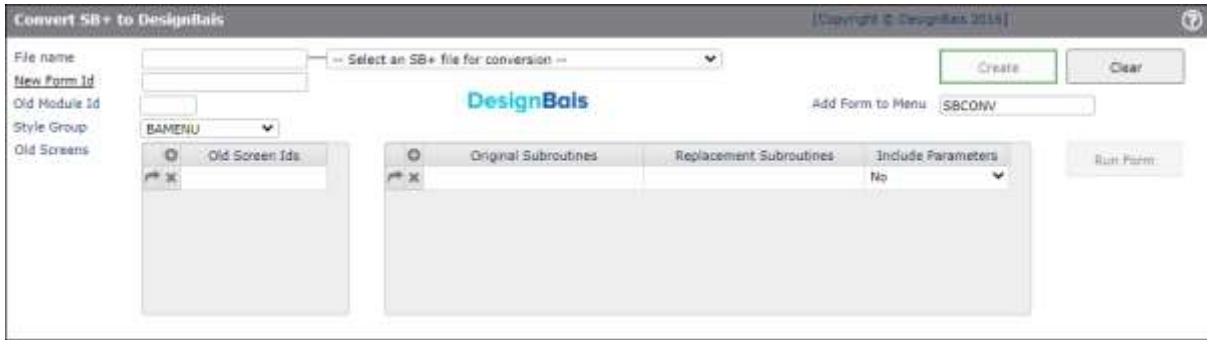
With this in mind the following section details how to convert SB+ screens to DesignBais forms.

From the DesignBais tools menu select *SB+ Conversion*.

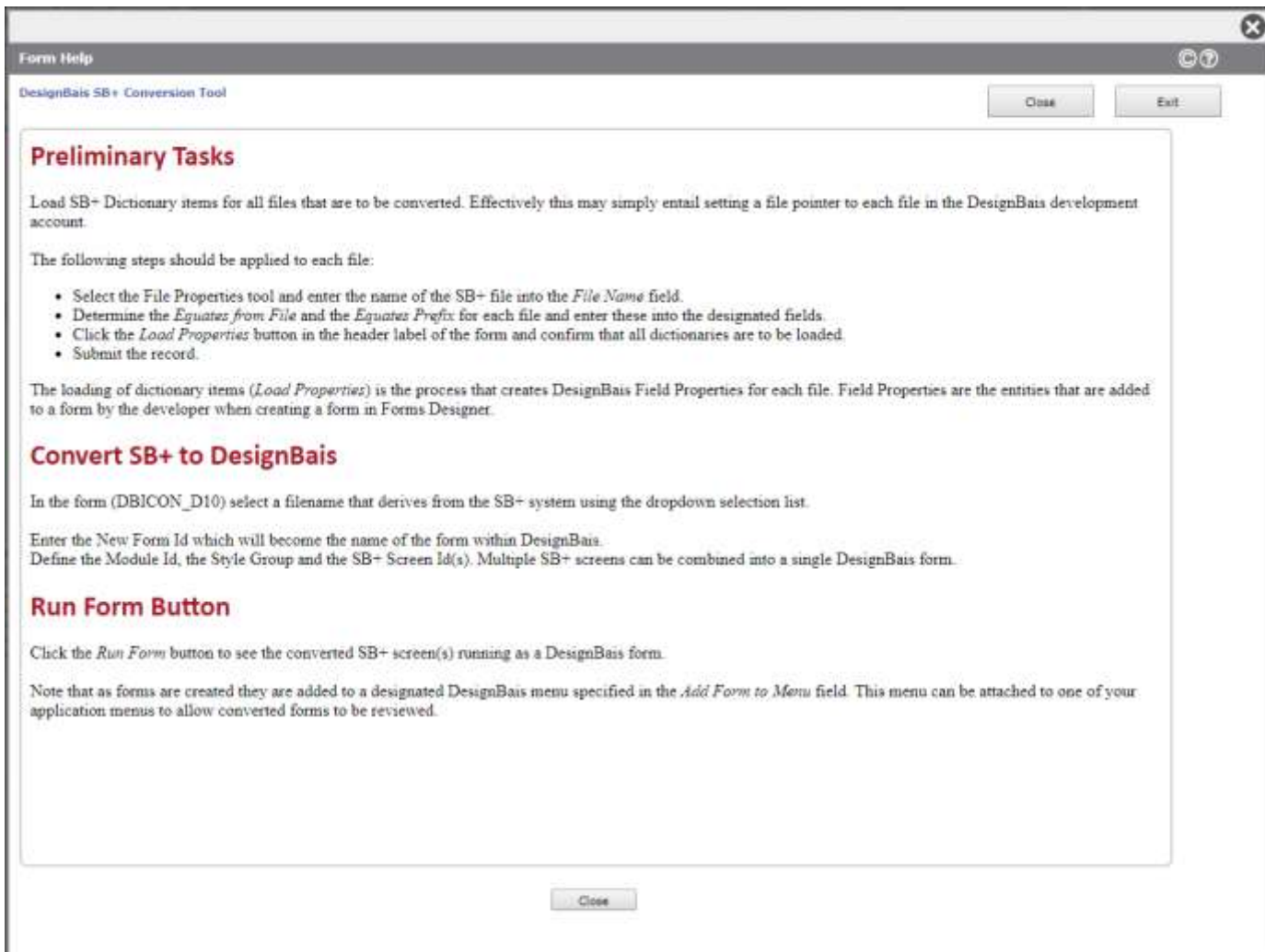


The form that displays is *Convert SB+ to DesignBais* [DBICON_D10]

Click the "?" image on the top right corner.



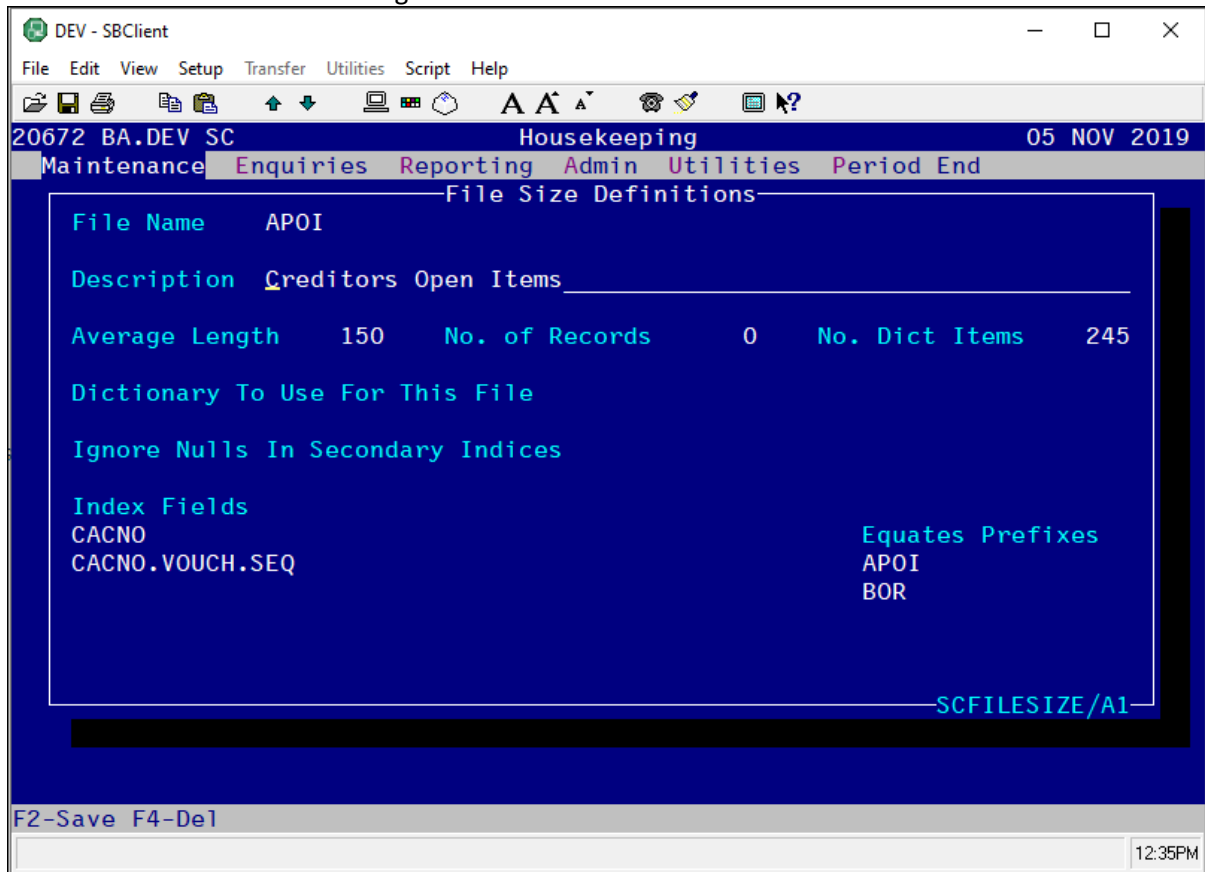
The Form Help is displayed.



The form to be converted for this example is SCFILESIZE which resides in module SC within an SB+ environment.

Follow the steps outline above in the *Preliminary Tasks*.

This form is shown below running on the *SBCClient* SB+ terminal emulator:

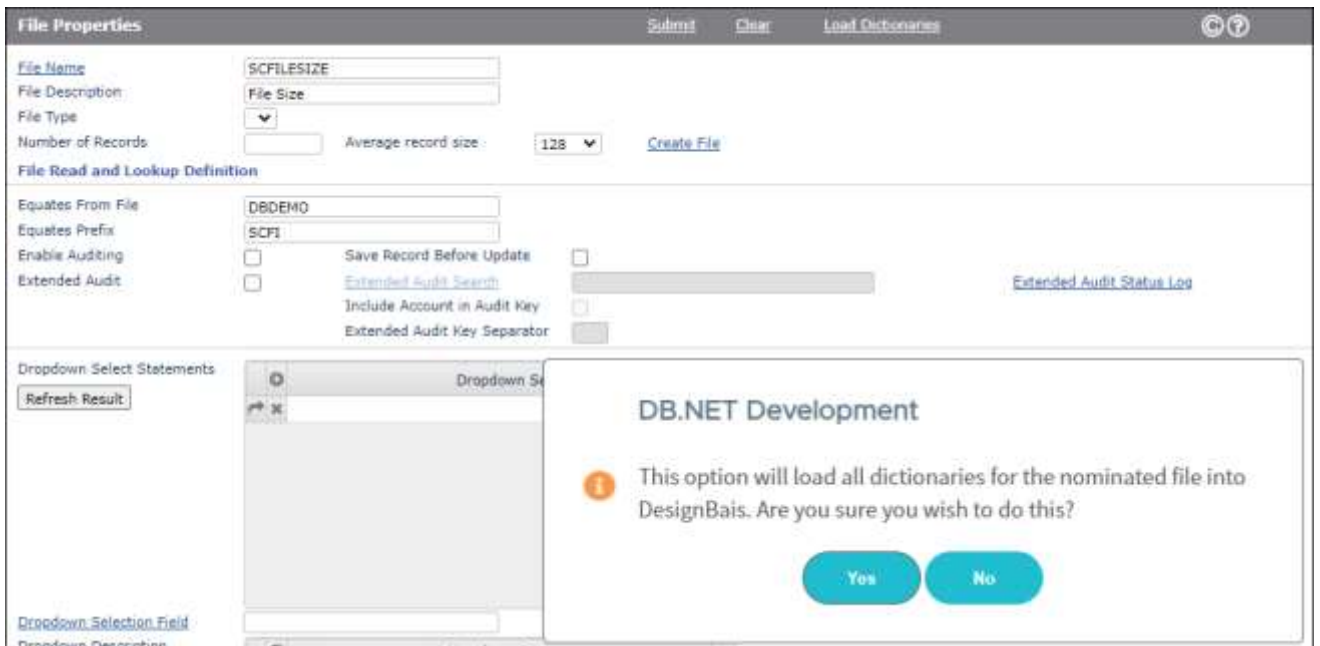


Create a record for this file in the DesignBais *File Properties* form:

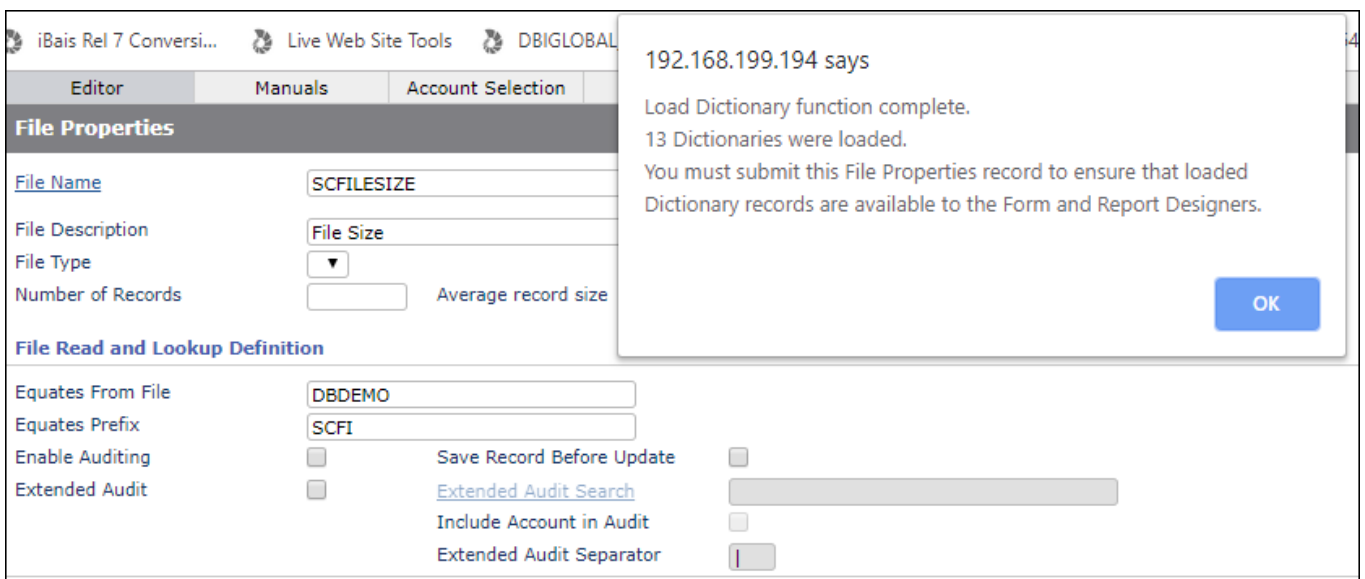


The *Equates from File* and the *Equates Prefix* are shown as examples only. Use the values that pertain to your system.

Click the *Load Dictionaries* button in the header bar.



Click Yes to continue.

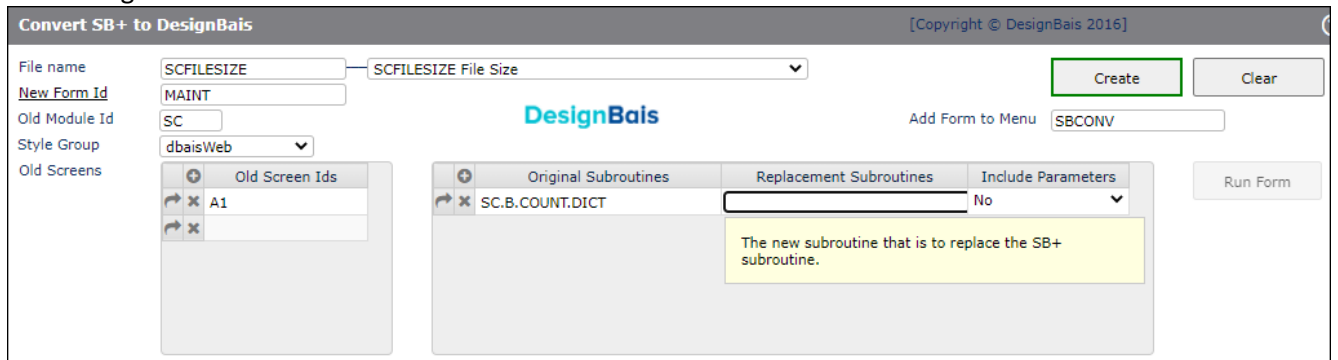


The file properties created by this process can be displayed in the *File Properties* form:

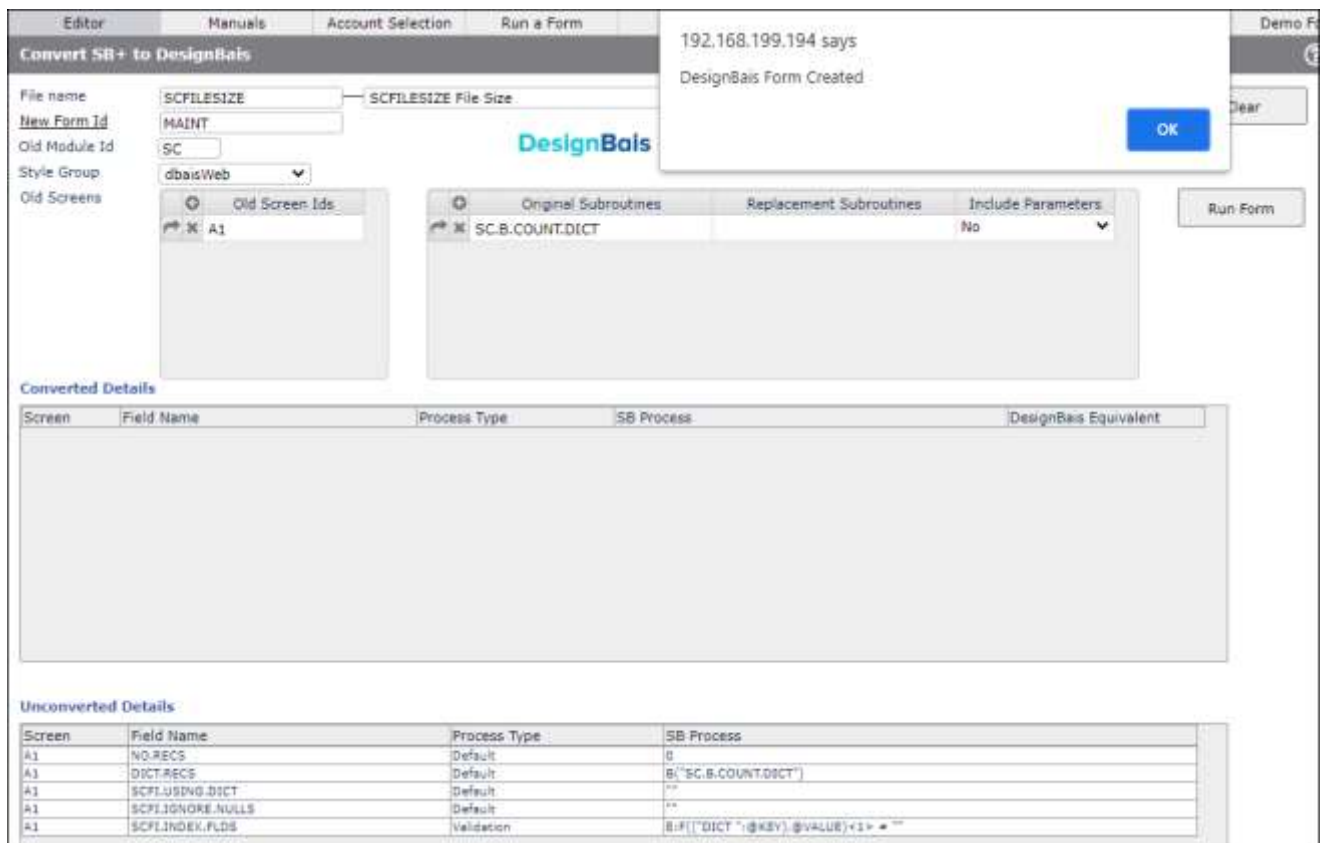
Field Name	Screen Label	Attrib	Type	eXpress Reporting	Length	Dec	Just	Conv	Mult	Work	Group
NAME	File Name	0	A	<input type="checkbox"/> No	15		L		N	N	
LENGTH	Average Length	1	N	<input type="checkbox"/> No	3		R		N	N	
NO.RECS	No. of Records	2	N	<input type="checkbox"/> No	5		R		N	N	
DESC	Description	3	A	<input type="checkbox"/> No	58		L		N	N	
DICT.RECS	No. Dict Items	4	N	<input type="checkbox"/> No	3		R		N	N	
SCFI.INDEX.FLDS	Index Fields	5	A	<input type="checkbox"/> No	20		L	MCU	Y	N	
SCFI.USING.DICT	Dictionary To Use For This File	6	A	<input type="checkbox"/> No	25		L	MCU	N	N	
SCFI.IGNORE.NULLS	Ignore Nulls In Secondary Indi	7	A	<input type="checkbox"/> No	1		L	MCU	N	N	
OS4	OS4	8	A	<input type="checkbox"/> No	10		L		N	N	
OS5	OS5	9	A	<input type="checkbox"/> No	10		L		N	N	
SCFI.EQU.PREFIX	Equates Prefixes	12	A	<input type="checkbox"/> No	4		L		Y	N	
SCFI.BELONGS.TO	Belongs To Module	13	A	<input type="checkbox"/> No	4		L		N	N	
ENQ.NAME	File Name	1	A	N/A	15		L		N	Y	

These records are stored in the DBIPROP file with key structure *filename*fieldname*.

You are now able to convert SB+ screen records for the *SCFILESIZE* file. In our example we are converting the screen called *A1*.



Click the *Create* button.



Click the *Run Form* button to display the DesignBais form which is created. The Id of the form record in DBIFORMS will be *SCFILESIZE*MAINT*.

File Name: APBATCH

Description: Batch Header File

Average Length: 80 No. of Records: 0 No. Dict Items: 181

Dictionary To Use For This File: [v]

Ignore Nulls In Secondary Indices: [v]

Index Fields: [Preview]

Equates Prefixes: SCFILESIZE/A1

Submit Delete Clear

(0) User:garb - Account:DB.NET - Form:SCFILESIZE_MAINT

Click the “?” on the top right corner. Form Help is already available.

Form Help Form ID: SCFILESIZE*MAINT

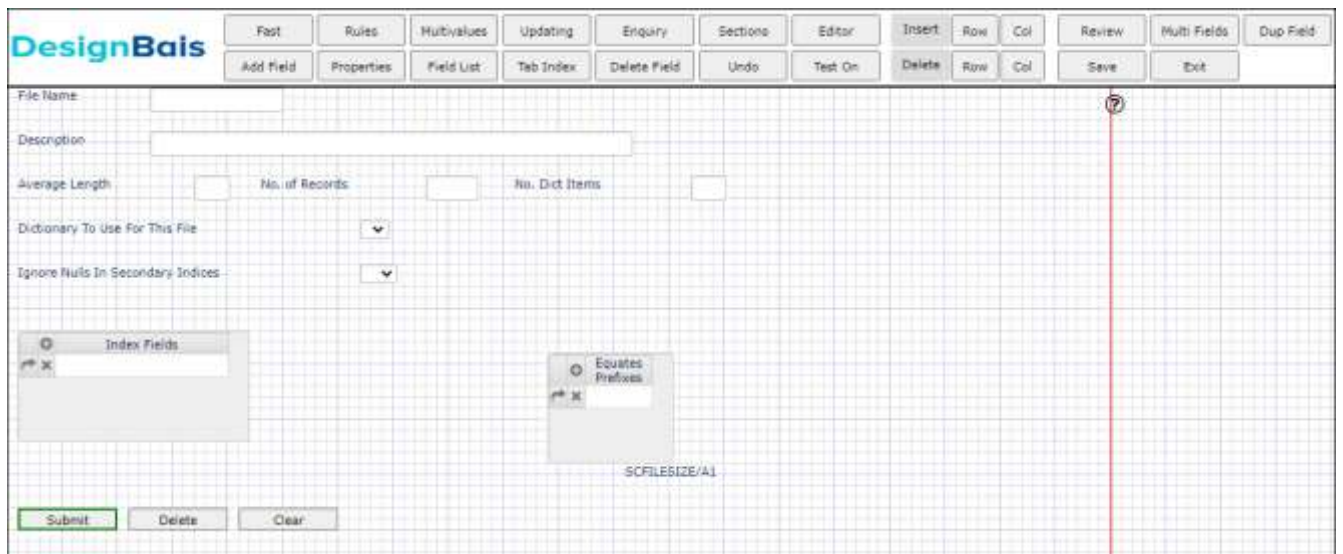
SCFILESIZE_MAINT [SCFILESIZE_MAINT] Expand Exit

Converted from screen A1 on 12:26pm 10/06/2021

Field Tag	Help Text	Field Name	New
File Name	Enter the File Name of ALL Files to be Stored thru INITIATE.COMPANY. Do not forget the Index File: (F3)[S*SCFILESIZE*MAINT	NAME	
?	Displays User help (F3 field help) for all the fields on the form. Help for buttons, images, reports and other form elements can also be defined and displayed.	B.DBFORMHLP	
Description	Enter the File Description to be referred to during INITIATE.COMPANY	DESC	
Average Length	Enter the average item length for this file. Use ISSTAT to calculate.	LENGTH	
No. of Records	Enter the number of records to be stored in this file. If '0' entered the no. of records will be asked at INITIATE.COMPANY	NO.RECS	
No. Dict Items	Enter the file of dictionary items associated with this file. (does include the .DICT items)	DICT.RECS	
Dictionary To Use For This File	Enter a valid file name if this data file uses another file's dictionary for its definition, else leave null. (F3)[S*SCFILESIZE*DI	SCFI.USING.DICT	
Ignore Nulls In Secondary Indices	Enter Y if null value secondary index key fields are NOT to be included in the DE index file.	SCFI.IGNORE.NULLS	
Index Fields ~	Fields to be indexed in operating system secondary index(P)(E)BC ^CDC.S.DICT.DEFVS ^@KEY)	SCFI.INDEX.FLDS	
Equates Prefixes	Enter an upto four character unique PREFIX to be used when building EQUATES for this file.	SCFI.EQU.PREFIX	
Submit	Submits the currently displayed record. The database is updated.	B.SUBMIT	
Delete	Deletes the currently displayed record from the database.	B.DELETE	
Clear	Deletes all fields currently displayed on the form.	B.CLEAR	

Edit Help

Use the DesignBais Forms Designer tool to modify the form as required.



DesignBais

Upgrade Routines

Version 8.6.0.1

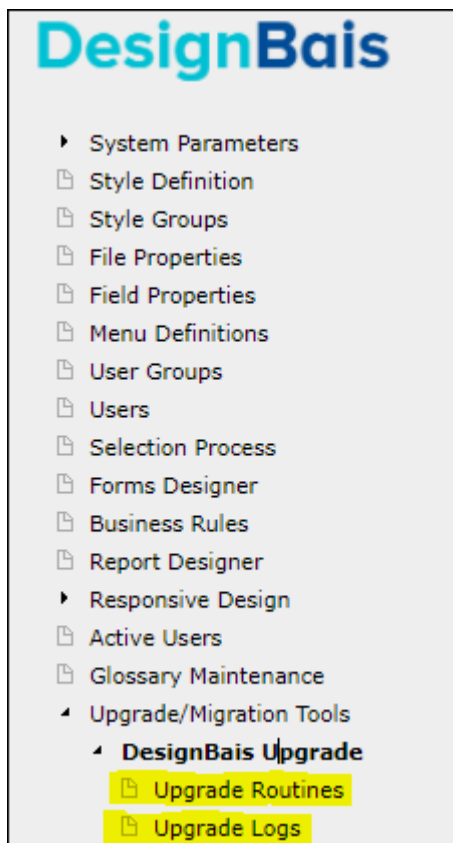
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DesignBais Upgrade Routines

This document provides a guide to running the DesignBais Upgrade Routines.

Upgrade Routines are designed to apply required changes to DesignBais entities, mainly to forms. These changes could be applied individually to each form but this would be very tiresome. The upgrade routines provide an efficient method to apply changes to the entire set of entities.

The changes that each upgrade routine addresses are described briefly in the form that displays when the *Upgrade Routines* option is selected from the side menu of the DesignBais tools form (DBIFORMS_DEVELOP).



Which Upgrades Do I Need to Run?

The routines that are normally run are shown in the image below.

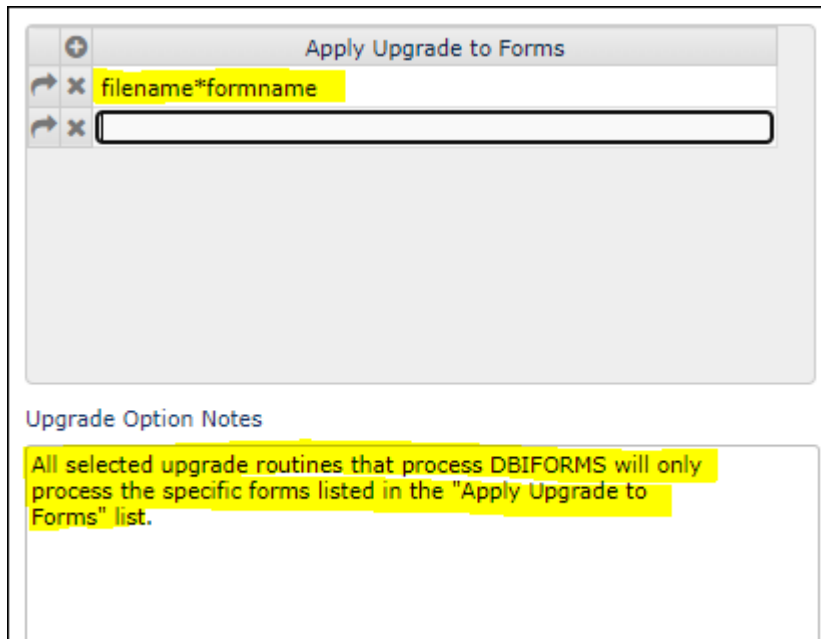
To select them click the “Yes” radio button in the “Run?” column.

By default they run in “View” mode. This produces a log of what will be changed, which you can review, but no updating is done.

						Submit	Close
Option	Run Type	Run?	Description	Mandatory	Date Run		
1	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	1 Apply new style to RUN, print selection forms then dummy amend	Yes	04/11/2020		
2	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	2 Form MV Grid non-matching Group or Section name and Field Multivalued not set		01/08/2018		
3	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	3 Import Styles from previous release of DesignBais				
4	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	4 Set Form Centering				
5	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	5 Set HTML Encoding				
6	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	6 Set Form Label Header type fields to have Col Span of 100%				
7	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	7 Form Hyperlinks where col or row span needs increasing to avoid truncating the text		08/11/2018		
8	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	8 Standardise Style Names		19/11/2021		
9	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	9 Check Forms for overlapping collapsing sections (No Update Option)		19/08/2020		
10	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	10 Add border-width:1px to MV Grid Styles		19/08/2020		
11	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	11 Fix Form MV Grid Tab Sequence to be the same for all fields in the grid				
12	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	12 Fix Form Tab Index where Index exceeds 995	Yes	28/11/2017		
13	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	13 Check Form reads of MV fields are in MV Grids (No Update Option)	Yes	19/08/2020		
14	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	14 Load DesignBais Style Groups and Styles				
15	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	15 Report Column Headings where row span needs increasing to avoid truncating		20/10/2020		
16	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	16 Remove erroneous entries from DBIF,FIELD,CONTROLKEY,LIST Form attribute	Yes	20/06/2017		
17	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	17 Update Style Groups that contain attributes with no defined Style	Yes	13/09/2018		
18	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	18 Add Form Help button to forms		23/01/2018		
19	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	19 Set B.SEARCHDESIGNBAIS as button action to occur when enter clicked in search forms		06/02/2019		
20	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	20 Check Forms for invalid files and subroutines not cataloged (No Update Option)				
21	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	21 Set the default display class for button action to occur when enter pressed		13/08/2018		
22	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	22 Report mv fields with dropdown, not in a grid and with rowspan 58		18/01/2021		
23	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	23 Purge Orphaned Cabinet Reports		18/01/2021		
24	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	24 Check for forms with fields having zero colspan width		30/07/2019		
25	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	25 Check DesignBais Glossary for errors		26/04/2021		
26	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	26 Check Forms for Date field XML Label lacking the datepicks string		28/11/2019		
27	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	27 Check Report RUN forms for description from the selection rather than the report		28/11/2019		
28	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	28 Update Form Help in DBIHELP to remove the xml label from the field prop ids		09/12/2019		
29	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	29 Update Selection Form date lookup if style group has Select Process Date Lookup		17/12/2019		
30	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	30 Update Form input field rowspan and checkbox colspan - now set by display class	Yes	05/03/2021		
31	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	31 Clear values from derived fields on DBIFORMS that are set at run time	Yes	04/12/2020		
32	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	32 Check field colspans are numeric apart from specified prefixes such as % (No Update Opt	Yes	28/07/2021		
33	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	33 Rebuild list of fields referred to by Business Rules	Yes	21/04/2020		
34	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	34 Remove colspan default value 90 from images on reports (colspan was ignored in Version		11/06/2020		
35	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	35 Replace page control buttons on Selection Process forms with new compact version		16/12/2021		
36	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	36 Apply DIGEST encrypting to DBIUSERS passwords		22/12/2021		
37	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	37 Change Input display class on TEXT and OUTPUT form fields to Label display class		22/04/2021		
38	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	38 Move FONT* records from DBIPARMS to DBISTYLE (post Release 8.5.1.3)	Yes	06/12/2021		

Can I Update Just a Few Forms?

In order to limit the upgrade to a few forms enter the form names here:



Apply Upgrade to Forms

filename*formname

Upgrade Option Notes

All selected upgrade routines that process DBIFORMS will only process the specific forms listed in the "Apply Upgrade to Forms" list.

You Must Review and Complete the Parameter Fields

Make sure you fill in the fields that appear at the base of the form. Only some of the upgrades have options that display here.

The values in these fields MUST be set for the "View" Run Type in order for the upgrade log to reflect what will be updated in the "Update" Run Type.

37	<input checked="" type="radio"/> View <input type="radio"/> Update	<input type="radio"/> No <input checked="" type="radio"/> Yes	37 Change Input display class on TEXT and OUTPUT form fields to Label display class		22/04/2021
38	<input checked="" type="radio"/> View <input type="radio"/> Update	<input checked="" type="radio"/> No <input type="radio"/> Yes	38 Move FONT* records from DBIPARMS to DBISTYLE (post Release 8.5.1.3)	Yes	06/12/2021

Check Form Grids for Non-Matching Group and Section Name

Update Group Name / Section Name / MV Flag

Exclude Grid Output Fields

Hyperlink Label Col Span Check

Clear the list of Ignored Fields

Report Column Heading and Form Search Label Row Span Check

Clear the list of Ignored Items

Override Manual Flag

Update Form Input Field Rowspan

Rowspan Adjustment Increment

Use Label Height for Checkbox/Radio Button Colspan

Include input field rowspan update

Include checkbox colspan update

Include radio button colspan update


Selection Form Page Controls

Force re-process of all selection processes

I Have Run the Upgrades and Nothing Changed!

After running in “View” mode you MUST select the “Update” Run Type and re-run all the required upgrades if you want anything to be actually updated!

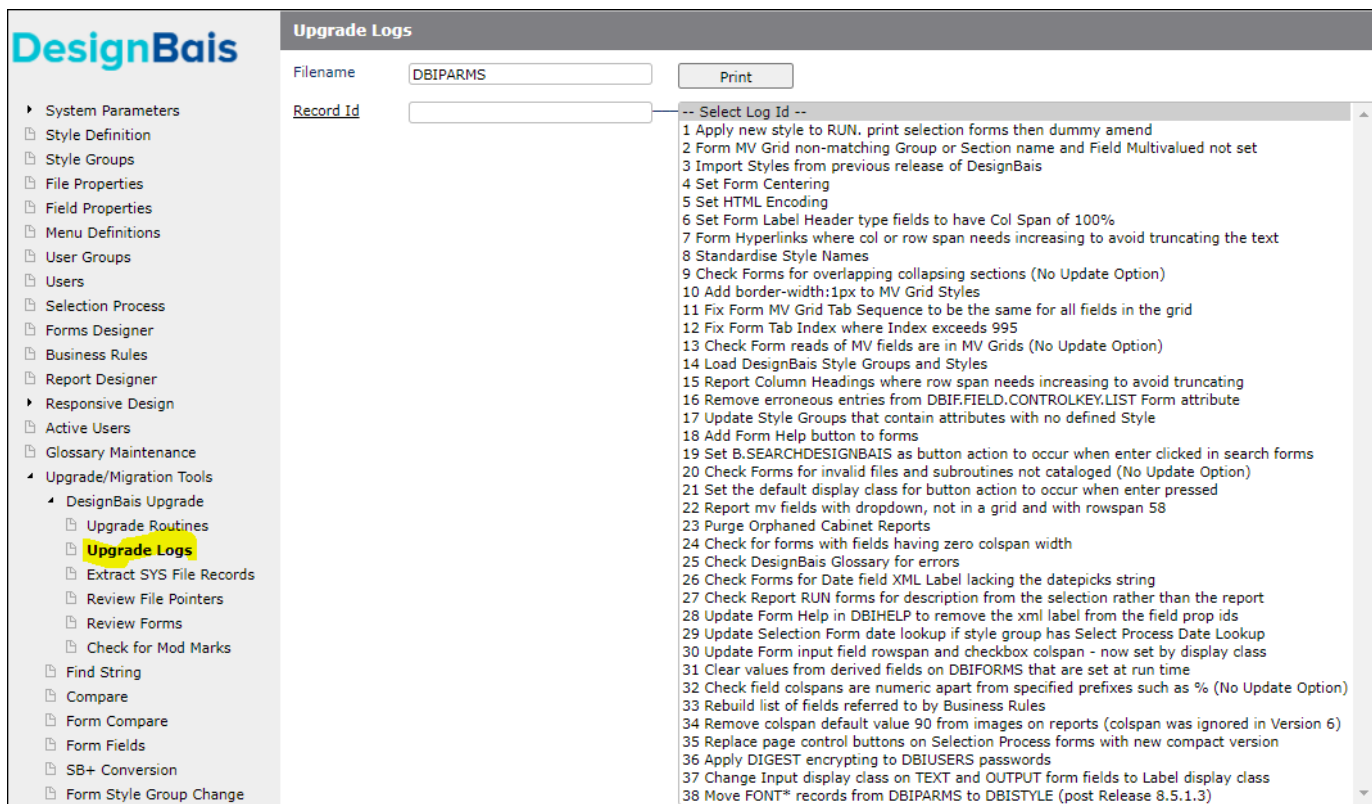
Once you are familiar with what the upgrades do, you can skip the “View” option and just run the “Update”.



29	<input checked="" type="radio"/> View	<input checked="" type="radio"/> Update	<input type="radio"/> No	<input checked="" type="radio"/> Yes	29 Update Selection Form date lookup if style group has Select Process Date Lookup
30	<input checked="" type="radio"/> View	<input type="radio"/> Update	<input type="radio"/> No	<input checked="" type="radio"/> Yes	30 Update Form input field rowspan and checkbox colspan - now set by display class
31	<input checked="" type="radio"/> View	<input type="radio"/> Update	<input type="radio"/> No	<input checked="" type="radio"/> Yes	31 Clear values from derived fields on DBIFORMS that are set at run time
32	<input checked="" type="radio"/> View	<input type="radio"/> Update	<input type="radio"/> No	<input checked="" type="radio"/> Yes	32 Check field colspans are numeric apart from specified prefixes such as % (No Update Opt
33	<input checked="" type="radio"/> View	<input type="radio"/> Update	<input checked="" type="radio"/> No	<input type="radio"/> Yes	33 Rebuild list of fields referred to by Business Rules
34	<input checked="" type="radio"/> View	<input type="radio"/> Update	<input type="radio"/> No	<input checked="" type="radio"/> Yes	34 Remove colspan default value 90 from images on reports (colspan was ignored in Version
35	<input checked="" type="radio"/> View	<input type="radio"/> Update	<input type="radio"/> No	<input checked="" type="radio"/> Yes	35 Replace page control buttons on Selection Process forms with new compact version

Where Are the Upgrade Logs

The Upgrade Logs are viewed here:



DesignBais

Upgrade Logs

Filename:

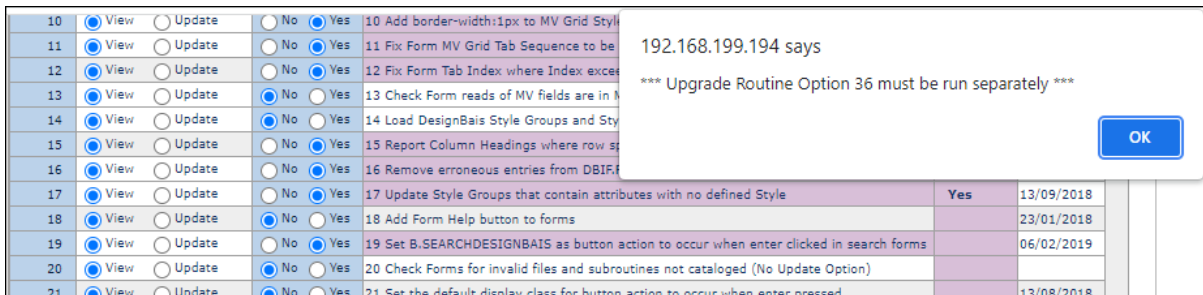
Record Id:

-- Select Log Id --

- 1 Apply new style to RUN. print selection forms then dummy amend
- 2 Form MV Grid non-matching Group or Section name and Field Multivalued not set
- 3 Import Styles from previous release of DesignBais
- 4 Set Form Centering
- 5 Set HTML Encoding
- 6 Set Form Label Header type fields to have Col Span of 100%
- 7 Form Hyperlinks where col or row span needs increasing to avoid truncating the text
- 8 Standardise Style Names
- 9 Check Forms for overlapping collapsing sections (No Update Option)
- 10 Add border-width:1px to MV Grid Styles
- 11 Fix Form MV Grid Tab Sequence to be the same for all fields in the grid
- 12 Fix Form Tab Index where Index exceeds 995
- 13 Check Form reads of MV fields are in MV Grids (No Update Option)
- 14 Load DesignBais Style Groups and Styles
- 15 Report Column Headings where row span needs increasing to avoid truncating
- 16 Remove erroneous entries from DBIF.FIELD.CONTROLKEY.LIST Form attribute
- 17 Update Style Groups that contain attributes with no defined Style
- 18 Add Form Help button to forms
- 19 Set B.SEARCHDESIGNBAIS as button action to occur when enter clicked in search forms
- 20 Check Forms for invalid files and subroutines not cataloged (No Update Option)
- 21 Set the default display class for button action to occur when enter pressed
- 22 Report mv fields with dropdown, not in a grid and with rowspan 58
- 23 Purge Orphaned Cabinet Reports
- 24 Check for forms with fields having zero colspan width
- 25 Check DesignBais Glossary for errors
- 26 Check Forms for Date field XML Label lacking the datepicks string
- 27 Check Report RUN forms for description from the selection rather than the report
- 28 Update Form Help in DBIHELP to remove the xml label from the field prop ids
- 29 Update Selection Form date lookup if style group has Select Process Date Lookup
- 30 Update Form input field rowspan and checkbox colspan - now set by display class
- 31 Clear values from derived fields on DBIFORMS that are set at run time
- 32 Check field colspans are numeric apart from specified prefixes such as % (No Update Option)
- 33 Rebuild list of fields referred to by Business Rules
- 34 Remove colspan default value 90 from images on reports (colspan was ignored in Version 6)
- 35 Replace page control buttons on Selection Process forms with new compact version
- 36 Apply DIGEST encrypting to DBIUSERS passwords
- 37 Change Input display class on TEXT and OUTPUT form fields to Label display class
- 38 Move FONT* records from DBIPARMS to DBISTYLE (post Release 8.5.1.3)

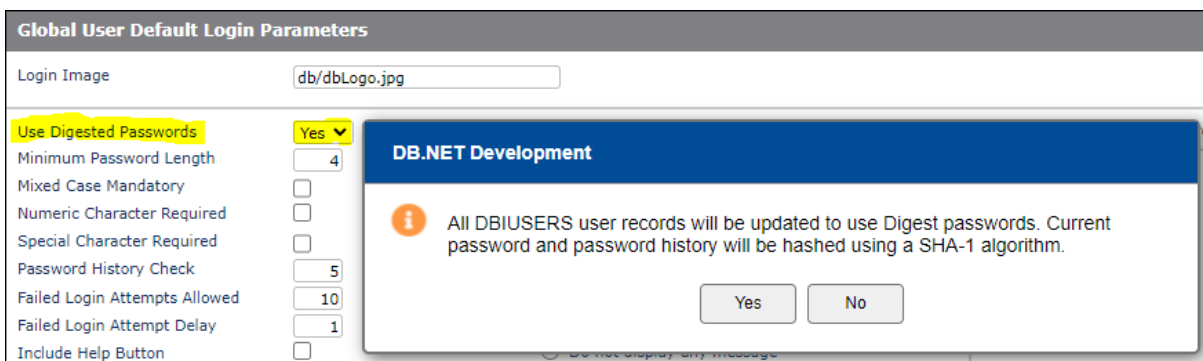
Upgrade Option 36 – Apply DIGEST Encryption

This option must be run separately. If other options are set the following message displays:



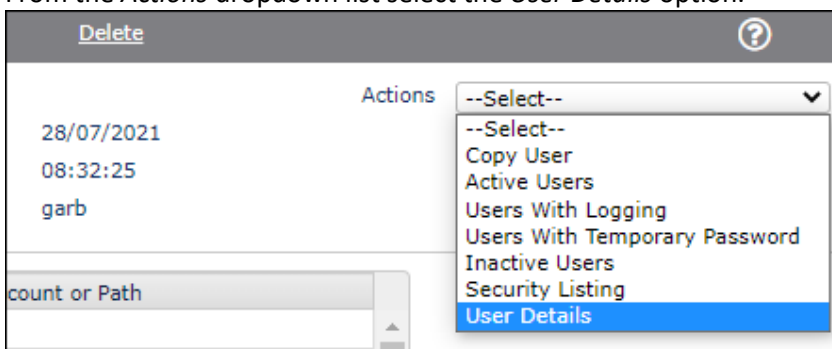
Use this upgrade routine to change the password encryption method used by DesignBais to encrypt DBIUSERS passwords.

There is a Global Login Parameter *Use Digested Passwords*. When this option is set to *Yes* DesignBais prompts the operator to allow Upgrade Option 36 to run and change all user records to use digested passwords. If a user is already set to use digested passwords then this user record is not updated.



Normal procedure is to set all user records via the Global Login Parameter *Use Digested Passwords*. But it is still possible to set individual users to use digested passwords.

Open the *User Maintenance* form. Enter a User Code. From the *Actions* dropdown list select the *User Details* option.



The *Check User Details* form displays attributes from the user record most of which are non-maintainable.

Note that there is a *Password Digested* field. This indicates whether or not the user password is encrypted using the DIGEST function. The field will display *No* prior to running this upgrade.

The DIGEST encryption method uses SHA-1 (Secure Hash Algorithm 1). In cryptography, SHA-1 is a cryptographic hash function which takes an input and produces a 160-bit hash value known as a message digest – typically rendered as a hexadecimal number, 40 digits long.

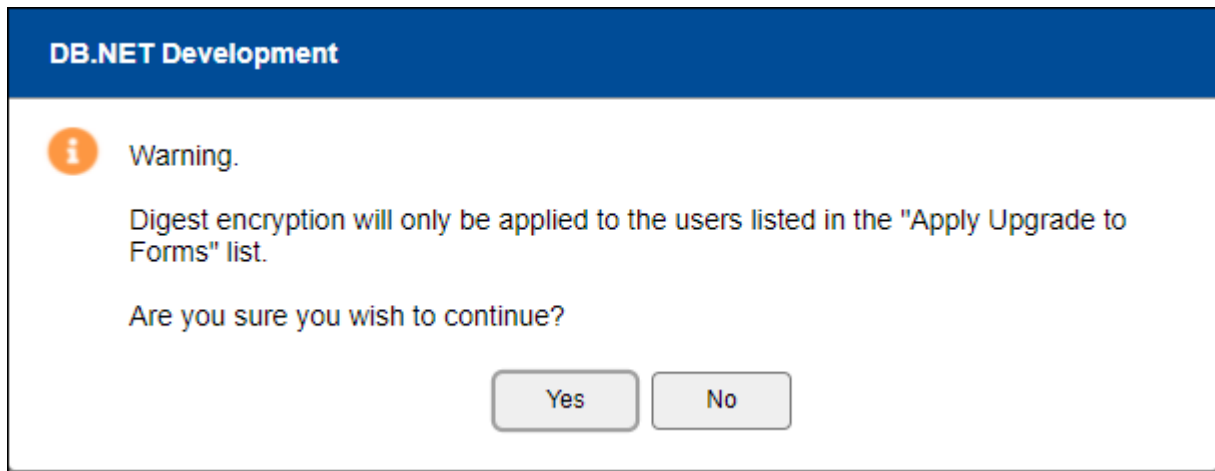
When used to encrypt DesignBais passwords it means that the password cannot be decrypted. The method used to verify a user password is to encrypt the string entered by the user, compare the encrypted string with the encrypted string stored on the user record, and allow the user to login in if there is a match. At no stage is the password able to be revealed.

Use *Upgrade Option 36* to implement the change to DIGEST encryption.

34	<input checked="" type="radio"/> View <input type="radio"/> Update	34 Remove colspan default value 90 from images on reports (colspan was ignored in Version	<input checked="" type="radio"/> No <input type="radio"/> Yes	
35	<input checked="" type="radio"/> View <input type="radio"/> Update	35 Replace page control buttons on Selection Process forms with new compact version	<input checked="" type="radio"/> No <input type="radio"/> Yes	
36	<input checked="" type="radio"/> View <input type="radio"/> Update	36 Apply DIGEST encrypting to DBIUSERS passwords	<input type="radio"/> No <input checked="" type="radio"/> Yes	
37	<input checked="" type="radio"/> View <input type="radio"/> Update	37 Change Input display class on TEXT and OUTPUT form fields to Label display class	<input checked="" type="radio"/> No <input type="radio"/> Yes	
38	<input checked="" type="radio"/> View <input type="radio"/> Update	38 Move FONT* records from DBIPARMS to DBISTYLE (post Release 8.5.1.3)	<input checked="" type="radio"/> No <input type="radio"/> Yes	Yes

The change will be applied to all users unless selected user ids are entered in the *Apply Upgrade to Forms* list. Note this field is usually used to define a subset of forms to be processed. It has been commandeered to allow a subset of users to be processed by upgrade option 36.

After selecting upgrade option 36 click the submit button. If the process is to apply to a subset of users then the following dialog will display:



Click Yes to continue.

The log shown below has been produced by running in *View* mode. No updating takes place but the log describes what will be updated.

Count	Form Id	Log Details
1		36 Apply DIGEST encrypting to DBIUSERS passwords
2		Run Type: View
3		Run time and date: 09:02:42 28 JUL 2021 by user garb
4		Apply DIGEST to DBIUSERS passwords
5		SSELECT DBIUSERS "gt"
6		1 record(s) selected to SELECT list #0.
7	gt	passwords will be updated (DIGEST applied)
8		1 user records will be updated with DIGESTed passwords. User records already digested: 0

Running upgrade option 36 in *Update* mode will actually apply the change to the selected user record as shown in the log below.

Count	Form Id	Log Details
1		36 Apply DIGEST encrypting to DBIUSERS passwords
2		Run Type: Update
3		Run time and date: 09:04:33 28 JUL 2021 by user garb
4		Apply DIGEST to DBIUSERS passwords
5		SSELECT DBIUSERS "gt"
6		1 record(s) selected to SELECT list #0.
7	gt	passwords updated (DIGEST applied)
8		1 user records updated with DIGESTed passwords. User records already digested: 0

If we now display the *Check User Details* form for the processed user we note that the *Password Digested* field now displays *Yes*. (Note that the *Check User Details* form image below has been modified to display the password fields for reference only. These fields are not displayed normally.)

The screenshot shows a window titled "Check User Details" with a close button in the top right corner. The form contains the following fields and values:

User Id	gt	Bob Garrard Digest Test	Close
Inactive	<input type="checkbox"/>		
PIN Required	No		
Password Digested	Yes		
Login Fail Cnt			
Password	LiP+n0/AiXC48F/wrFqtFzyKois=		
Temporary Password			
Request Date			
Request Time			

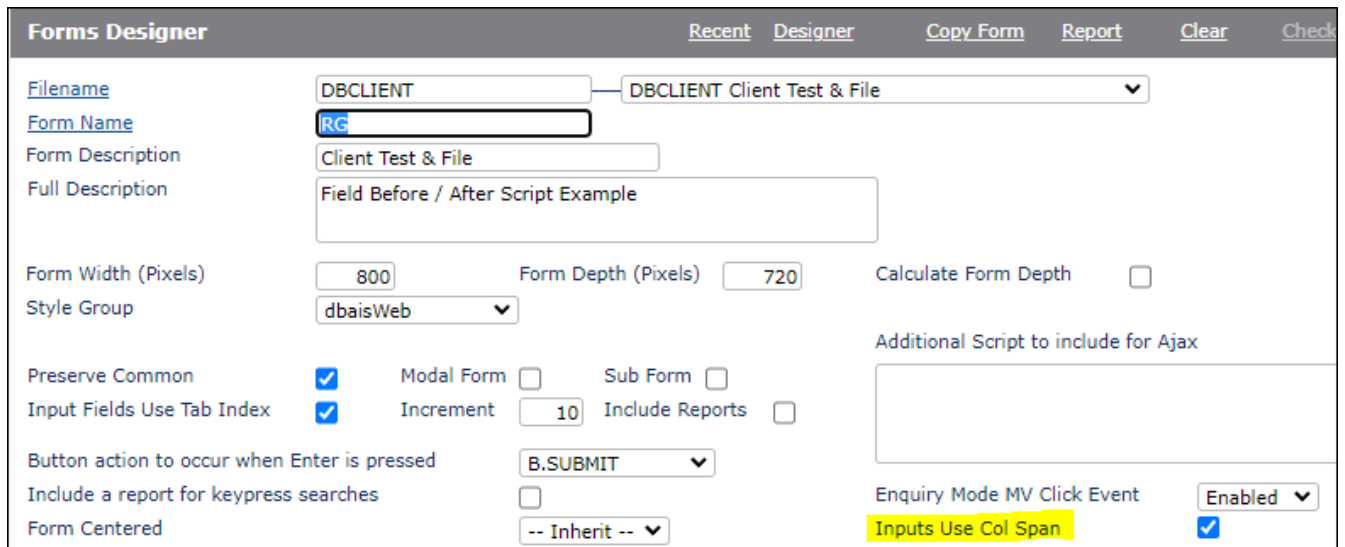
Below the form is a "Password History" section with a scrollable list containing the entry: x01K1tfqvbxcw/K7BlUblkQuG7Q=

Once passwords have been digested the only way to reverse this is to send a user a temporary password, turn off the *Password Digested* flag for the user and allow the user to log in with the temporary password and change the password when prompted.

The above procedure is not recommended. In general there is no reason to return to encrypted passwords. Digested passwords offer superior security.

Upgrade Option 39 – Form Inputs use Col Span to set Width

As of release 8.6.0.3 the Forms Designer front form has a new field *Inputs Use Col Span*.



The screenshot shows the 'Forms Designer' application window. The 'Filename' is 'DBCLIENT' and the 'Form Name' is 'RC'. The 'Form Description' is 'Client Test & File' and the 'Full Description' is 'Field Before / After Script Example'. The 'Form Width (Pixels)' is 800 and the 'Form Depth (Pixels)' is 720. The 'Style Group' is 'dbaisWeb'. The 'Calculate Form Depth' checkbox is unchecked. The 'Additional Script to include for Ajax' field is empty. The 'Preserve Common' checkbox is checked, 'Modal Form' is unchecked, and 'Sub Form' is unchecked. 'Input Fields Use Tab Index' is checked, 'Increment' is 10, and 'Include Reports' is unchecked. The 'Button action to occur when Enter is pressed' is 'B.SUBMIT'. 'Include a report for keypress searches' is unchecked. 'Form Centered' is '-- Inherit --'. The 'Enquiry Mode MV Click Event' is 'Enabled'. The 'Inputs Use Col Span' checkbox is checked and highlighted in yellow.

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 will apply the column span as entered for all <inputs> on the form.

This upgrade routine provides a means of setting this field for all or a selected list of forms.

Making <inputs> align with <spans> requires that the styles of each have box-sizing: border-box.

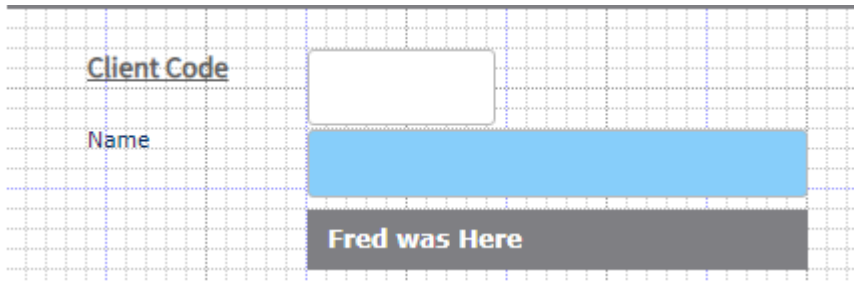
This pulls any padding or borders within the set col span otherwise they are outside of the assigned col span.

In the example below both the input field and the text label elements have a col span of 250px but different padding and borders. This means that both elements are rendered longer than 250px.

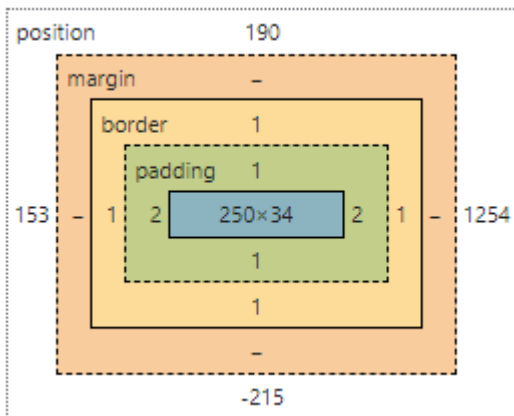


The screenshot shows a form layout on a grid. The 'Client Code' label is positioned above a white input field. The 'Name' label is positioned above a blue input field. Below the blue input field is a grey text box containing the text 'Fred was Here'.

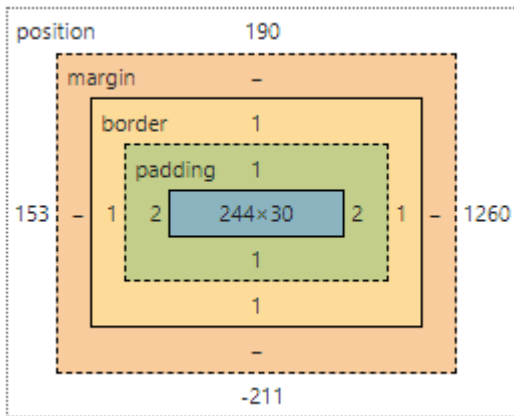
When the *Inputs Use Col Span* field is checked for a form DesignBais adds *box-sizing: border-box* so that the input field and the span are both rendered with the length as set by the Col Span value.



With no box-sizing an input with a colspan of 250px looks like this:



With box-sizing:



Font Awesome in DesignBais

DesignBais versions 7 onwards have included the Font Awesome version 4.7 files in the website download:

```
DBINET\css\awesome.css
DBINET\fonts\FontAwesome.otf
DBINET\fonts\fontawesome-webfont.eot
DBINET\fonts\fontawesome-webfont.svg
DBINET\fonts\fontawesome-webfont.ttf
DBINET\fonts\fontawesome-webfont.woff
DBINET\fonts\fontawesome-webfont.woff2
```

DesignBais versions 8.5 onwards includes the Font Awesome version 5.15.3 free files in the web site folder:

```
DBINET\fontawesome
```

Font Awesome version 5.15.3 free includes many more icons and more fonts. Naturally there is an overhead when these files are loaded. DesignBais will continue to be released with the Font Awesome 4.7 css in place to avoid imposing this overhead on all DesignBais sites. However, the extract process in the Global Parameters Awesome Fonts process allows developers to make the Font Awesome 5.15 “all.css” active. The Font Awesome 5.15 Pro or later versions should be installed into the folder DBINET\fontawesome.

See <https://fontawesome.com/how-to-use/on-the-web/setup/upgrading-from-version-4> for information on upgrading Font Awesome.

DesignBais Database Component version 8.5.1.1 has streamlined the use of Awesome Fonts by adding a control item to provide lookups of the available icons and a maintenance form in Forms Designer to make coding simpler.

Global Parameters – Awesome Font

This form is used to establish the DBIGLOBAL item FONT.AWESOME. The full DesignBais downloads 8.5 and after include the DBIGLOBAL “FONT.AWESOME” record for the FontAwesome version 4.7 icons. Follow these steps to load the FONT.AWESOME item into an existing account:

- Transfer the DBINET\css\awesome.css or the DBINET\fontawesome\css\all.css to a database file e.g. DBLIB
- Open the Global Parameters – Awesome Font form from the menu
- Enter the location of the file transferred in step 1 e.g. DBLIB AWESOMEFONT.CSS
- Click Extract
- Once the extraction is finished, click Submit to save the record.

You will need to refresh your browser. The refresh ensures that the correct Font Awesome CSS file is loaded into your pages.

The Font Awesome version 4.7 extract contains 786 icons but some seem to be problematic:

Font Awesome Global Parameters

Style Class

↶ ✕

Size Class

















↶ ✕

↶ ✕

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↶ ✕

+	Icon Class	Icon fa Style	Icon Hex Code
↶	✕ fa-500px		
↶	✕ fa-address-book		
↶	✕ fa-address-book-o		
↶	✕ fa-address-card		
↶	✕ fa-address-card-o		
↶	✕ fa-adjust		
↶	✕ fa-adn		
↶	✕ fa-align-center		
↶	✕ fa-align-justify		
↶	✕ fa-align-left		
↶	✕ fa-align-right		
↶	✕ fa-amazon		
↶	✕ fa-ambulance		
↶	✕ fa-american-sign-language-interpreting		
↶	✕ fa-anchor		
↶	✕ fa-android		
↶	✕ fa-angellist		
↶	✕ fa-angle-double-down		
↶	✕ fa-angle-double-left		
↶	✕ fa-angle-double-right		

Extract from File

Extract Item Id

Submit

Extract

Close

The Font Awesome version 5.15 extract contains 1665 icons:

Font Awesome Global Parameters

+ Style Class

- fa
- fab
- fad
- fal
- far
- fas

+ Size Class

- 10x
- 1x
- 2x
- 3x
- 4x
- 5x

+ Icon Class	Icon fa Style	Icon fas Style	Icon fab Style	Icon far Style	Icon fal Style	Icon fad Style	Icon Hex Code
<input checked="" type="checkbox"/> fa-500px		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-accessible-icon	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-accusoft	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-acquisitions-incorporated	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-ad			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-address-book			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-address-book-o		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-address-card			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-address-card-o		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-adjust			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-adn		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-adversal	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-affiliatetheme	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-air-freshener			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-airbnb	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-algolia	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-align-center			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-align-justify			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-align-left			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> fa-align-right			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Extract from File

Extract Item Id

Submit
Extract
Close

The classes far (Regular), fal (Light) and fad (Duotone) are only available in the Pro version and may be deleted from the list of classes so that they do not appear in the maintenance form.

Implementing Font Awesome in DesignBais

The inclusion of Font Awesome icons in your DesignBais applications should now be straight forward.

All designbais output fields, buttons, multi-value grids and on-form reports now support font awesome inclusions.

~fa|fas|fa-exclamation-circle|#CC0000|2x|||font-size:13px;|1|#990000

This string is interpreted by the routine DBI.G.FONT.AWESOME

Parameter definition:

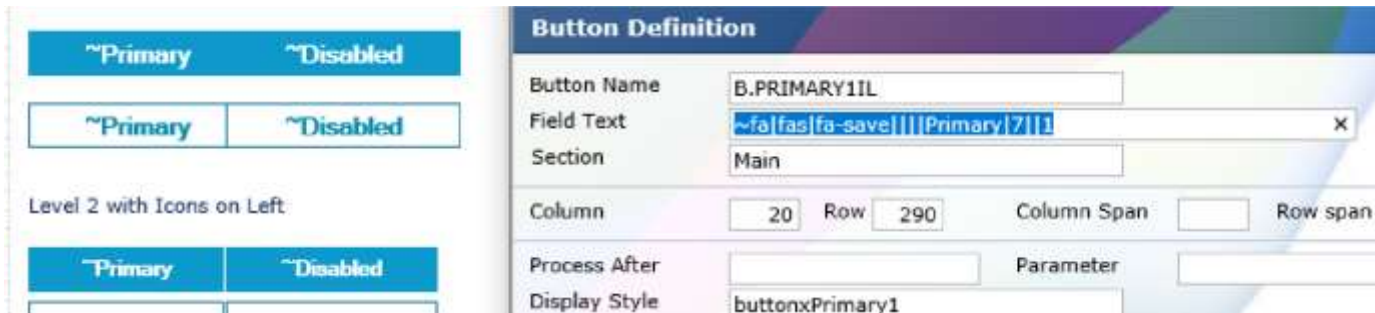
1. ~fa - Informs DesignBais that this is a font-awesome string.
2. Font Awesome Style - Determines what font-awesome style is to be used. Currently: fas, far, fal, fad
3. Font Awesome Icon - The font-awesome icon from the icon-set matching the style. In the above example the fa-exclamation-circle is used.
4. Color - Color to be used by the icon
5. Size - This is a font-awesome size description. If left blank the font-size of the container will be used. xs, sm, 2x 3x, 10x
6. Text left - Text to appear on the left of the icon.
7. Text right - Text to appear on the right of the icon.
8. Text padding - Pad the distance between icon and text by defined pixels
9. Additional Style - Any CSS elements that you wish to apply to the cell. In the example above the font-size of the icon is changed.
10. Parent Indicator - This provides a @PARENT tag to the cell which will allow it to be clicked if required by adding a valid report ID to the element.
11. Mouse out color - If there is a requirement to change the default mouse-out color of the icon, then add the color to this parameter. This will be the default color for the icon. The color identified in Parameter 4, will be the mouse-overcolor.
12. Encode on/off – Deprecated as DesignBais has controls for HTML Encoding. If the font-awesome icon and associated properties are to be displayed in a multi-value grid, then this property must be set to 1. If this is not done, the grid will fail to display.
13. Top Position: Allows for Absolute Position of the icon element within the form element.
14. Left Position: Allows for Absolute Position of the icon element within the form element.

Font Awesome Examples

Button definition

~fa|fas|fa-save| |||Primary|7||1

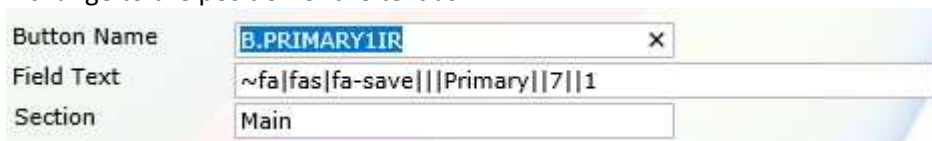
In the Designer the display of the text will include a tilde “~”. This is used to indicate that the button includes font-awesome.



Run time displayed as:



A change to the position of the text as:

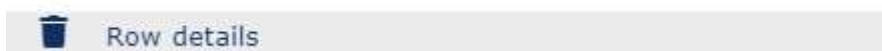


Moves the text to the left:



On-form report Header

OUTPUT.HEADERS(PRN) = "~fa|fas|fa-trash| |||height:15px;font-size:13px;|1"



On-form report Detail

OUTPUT.REPORT(PRN)<DL> = "~fa|fas|fa-trash|#0D99CC| |||7|font-size:13px;|1|#0A759C|":VM:"This is row ":DL



Row details



This is row 1



This is row 2



This is row 3



This is row 4

```
BEGIN CASE
  CASE A = 1

      B = "~fa|fas|fa-check-circle|#74C023||||font-size:13px;
|1|#5B971C"

      CASE A = 2

      B = "~fa|fas|fa-exclamation-circle|#CC0000||||font-size:
13px;|1|#990000"
      CASE A = 3

      B = "~fa|fas|fa-exclamation-triangle|#D39E05||||font-size:
13px;|1|#B08918"

      CASE A = 4

      B = "~fa|fas|fa-ban|#702082||||font-size:13px;|1|#4D1659"

END CASE
OUTPUT.REPORT(PRN)<DL> = B:VM:"This is row ":DL
```

Icon Something Else



This is row 1



This is row 2



This is row 3



This is row 4



This is row 5



This is row 6



This is row 7



This is row 8

Adding a blank button to a form with a Font-awesome icon

Button Definition					
Button Name	<input type="text" value="B.CLICK2"/>				
Field Text	<input type="text" value="~fa fas fa-info #0D99CC; 3x 1"/>				
Section	<input type="text" value="Main"/>				
Column	<input type="text" value="300"/>	Row	<input type="text" value="770"/>	Column Span	<input type="text" value="40"/>
				Row span	<input type="text" value="40"/>
Process After	<input type="text" value="EXEC.EVENT.NEWUX"/>	Parameter	<input type="text"/>		
Display Style	<input type="text" value="buttonxBlank"/>				
Return to Field	<input type="text"/>				
Z-Index Order	<input type="text"/>				

As the buttonxBlank (see documentation on new styles) is used, the result is a button that contains only the font-awesome icon.



Building a dashboard-style icon set

This example of a dashboard has been used with an on-form report. The specification required that the icon and its associated text should stay closely aligned regardless of the size of the form.

 763 employees 1 company 27 errors 7 warnings 0 fixed 3 not importing

This requires html includes to be added to the text string:

```
PRN = 2

FOR DL = 1 TO 6
  OUTPUT.HEADERS (PRN) <DL> = " "
  OUTPUT.WIDTHS (PRN) <DL> = 18
  DBREPORTHEADER.ATTR<PRN, DL> = "display:none;height:0px;"
  OUTPUT.ATTR (PRN) <1, DL> = 'class="LatoLight28"~|height:45px'
NEXT DL

OUTPUT.LINE      = "~fa|fas|fa-user|#0D99CC|||763<span style='font-size:
22px;'>&nbsp;employees</span>|10|font-size:22px;|"
OUTPUT.LINE<1,2> = "~fa|fas|fa-users|#0D99CC|||1<span style='font-size:
22px;'>&nbsp;company</span>|10|font-size:22px;|"
OUTPUT.LINE<1,3> = "~fa|fas|fa-exclamation-circle|#CC0000;|||27<span
style='font-size:22px;'>&nbsp;errors</span>|10|font-size:22px;|"
OUTPUT.LINE<1,4> = "~fa|fas|fa-exclamation-triangle|#D39E05;|||7<span
style='font-size:22px;'>&nbsp;warnings</span>|10|font-size:22px;|"
OUTPUT.LINE<1,5> = "~fa|fas|fa-check-circle|#74C023|||0<span
style='font-size:22px;'>&nbsp;fixed</span>|10|font-size:22px;|"
OUTPUT.LINE<1,6> = "~fa|fas|fa-ban|#702082|||3<span style='font-size:
22px;'>&nbsp;not importing</span>|10|font-size:22px;|"

OUTPUT.REPORT (PRN) <-1> = OUTPUT.LINE

PROCESS.REFRESH<1, -1> = "R.DASHBOARD"
PROCESS.TYPE<1, -1>    = "R"
```

Output Line 1 described:

~fa|fas|fa-user|#0D99CC|||763 employees|10|font-size:22px;|

1. ~fa - Informs DesignBais that this is a font-awesome string.
2. Font-awesome style set - fas style set
3. Icon name - fa-user
4. Color - #0D99CC
5. Size - [Default]
6. Text left - [Not Used]
7. Text right - 763 employees763 text plus a html span tag containing a hard space plus a label for employees. A normal 'soft-space' will be ignored. A font-size style property is set to influence the size of the employee tag.

8. Text padding - Pad the distance between icon and text by 10 pixels
9. Additional Style - font-size:22px; CSS styling property to set the icon to 22 pixels.
10. Parent Indicator - As this is not a clickable icon, there is no parent indicator
11. Mouse out color - As this is not a clickable icon, there is no mouse out color
12. Encoding parameter

Multi-value coding

```
~fa|fas|fa-check-circle|#74C023|5|||padding-left:5px;font-size:13px;text-align:center;|1|#5B971C|1
```

All properties used in a multi-value field are identical except for the twelfth parameter.

In the example above, the twelfth parameter is set to 1 to indicate that the font-awesome tag is to be encoded.

This is purely for DesignBais internals to ensure that quotes and apostrophes are treated correctly when the fa string is added to an outgoing XML packet.