

A low-angle, upward-looking photograph of a massive, rusted steel bridge tower. The structure is composed of numerous riveted steel plates, creating a complex geometric pattern. The sky is bright and clear, with a few thin, dark lines visible. A prominent red banner with a slight 3D effect is superimposed across the middle of the image, containing the text "EXTERNAL DATABASE EXPORT" in white, uppercase, sans-serif font. The banner has a dark red shadow on its right side, giving it a sense of depth.

# EXTERNAL DATABASE EXPORT

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- PxPlus has two utilities to export a table to an external database
  - [Database Export Utility](#) - To export one table at a time
  - [Bulk Database Export Utility](#) - To export multiple tables all at the same time
- Utilities are similar in use and function so we will only cover the Bulk Database Export Utility
- The **Bulk Database Export Utility** allows you to define a connection to an external database and then selectively export tables from the PxPlus data dictionary
  - Create [Link Files](#) that point to tables in the database
  - Create Link Files that point to the database itself
  - Add entries to the [Prefix File](#) that point to tables in the database
  - Add entries to the Prefix File that point to the database itself
  - Validate native PxPlus data files
  - Load data from native PxPlus data files to database tables

# EXTERNAL DATABASE EXPORT

- To invoke the **Bulk Database Export Utility**, use one of the following methods:

Location	Method
From <a href="#">Database Export Utility</a>	Click the <b>Bulk Export</b> button
From <a href="#">Data Dictionary Maintenance</a>	Click the <b>Export</b> button in the <b>Database</b> section of the toolbar if no table with a native PxPlus data file is currently selected
From <a href="#">Data Dictionary Maintenance</a>	From the menu bar, select <b>File</b> > <b>Database Export Utility</b> if no table with a native PxPlus data file is currently selected
From the PxPlus Command line	Enter: <b>RUN "*dict/expdde"</b>

# EXTERNAL DATABASE EXPORT

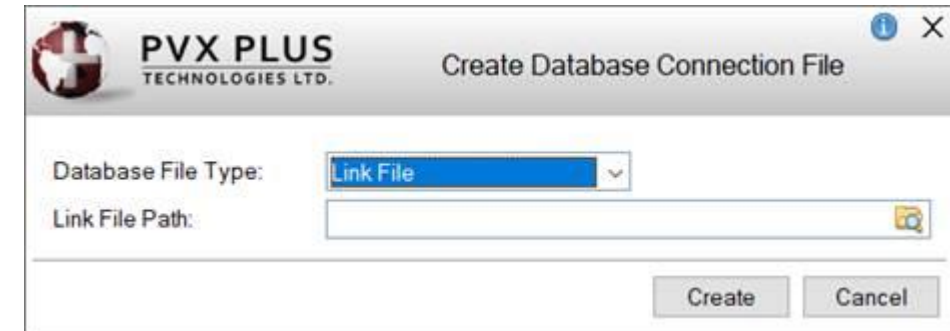
- To connect to a database to export to, you must input the database connection information
- The utility remembers database connection information after successfully connecting to the database
  - Multiple database connections can be remembered, one connection for each database type
  - The connection information is remembered on a "per project" basis

The screenshot shows the 'Bulk Database Export Utility' window from PVX PLUS TECHNOLOGIES LTD. The interface is divided into several sections. At the top, there's a header with the company logo and name. Below this, the 'Target Database' section is highlighted with a green border. It contains fields for 'Database Type' (set to 'ODBC'), 'Data Source', 'Database Name', 'User Name', 'Password', and 'Additional Options' (set to 'NONULLS=Y;NULLPADKEY=Y'). There are buttons for 'Create DB File' and 'Load Tables'. Below the 'Target Database' section is a table with columns: Table, Group, Description, In DB, File Type, Validate, DB Action, Load Table, and File Action. The table has one row with 'Edit All -->' in the 'File Type' column. At the bottom, there are checkboxes for 'Strip User/Password from Link Files and Prefix Entries' (checked) and 'Disable Data Loss Warning' (unchecked). There are also buttons for 'View Log', 'Apply', and 'Exit'.

Table	Group	Description	In DB	File Type	Validate	DB Action	Load Table	File Action
				Edit All -->	<input type="checkbox"/>	No action ▾	<input type="checkbox"/>	No action ▾

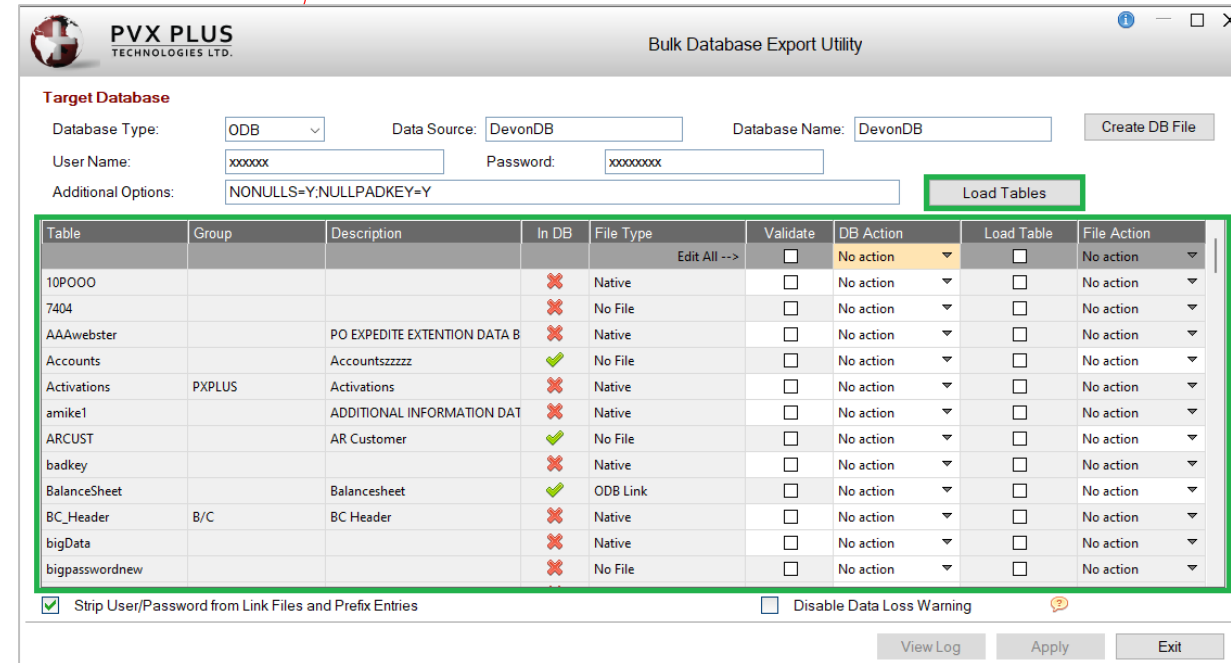
# EXTERNAL DATABASE EXPORT

- [Create DB File](#) button allows you to create either a Link File or a Prefix File entry that points to the database itself
  - This may be useful so that you can do a global OPEN to the database, providing the UserID and Password to avoid needing the UserID and Password on every Link/Prefix File entry
  - It can also be used to get a list of tables from the database or if your program needs to make direct queries against the database



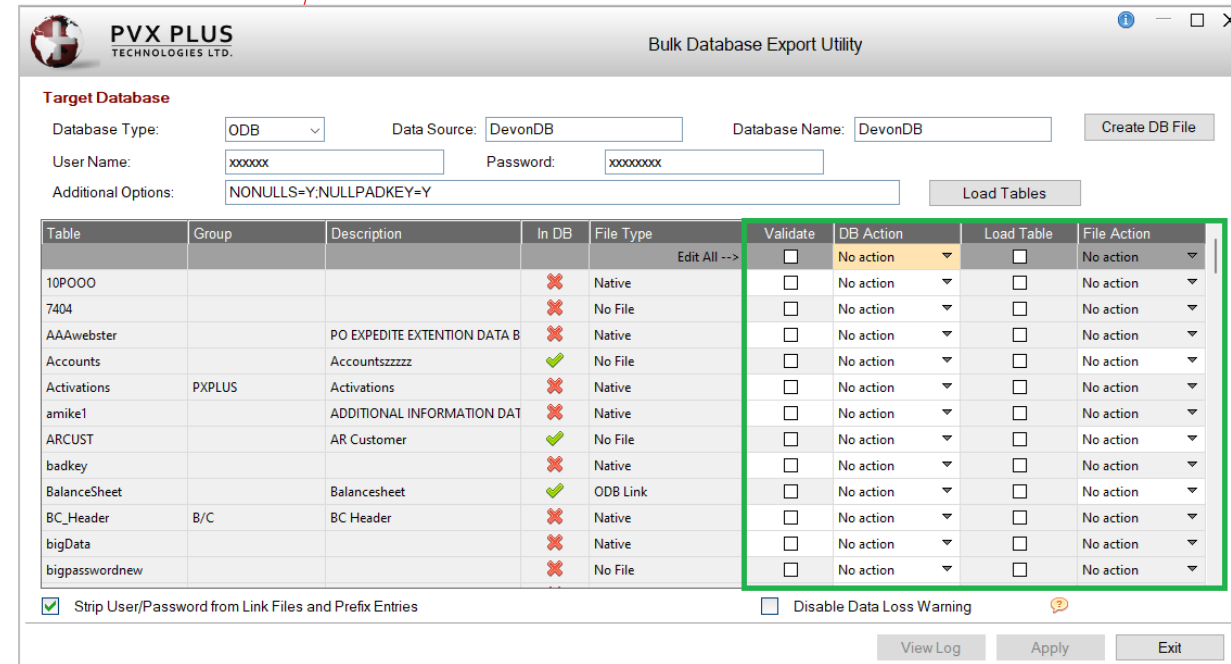
# EXTERNAL DATABASE EXPORT

- **Load Tables** button - Lists the tables in the data dictionary, sorted in alphabetical order by default
- **In DB** column - A check mark indicates which table definitions are currently in the database
- **Group** and **Description** columns - Describe the table
- **File Type** column – Tells you what type of file is in the data dictionary; i.e. No File, Native, ODB Link, etc.



# EXTERNAL DATABASE EXPORT

- **Validate** - Will have PxPlus check that the contents of the file match the elements definition
- **DB Action** - Can be used to:
  - Create table in external database
  - Merge table in external database
  - Replace table in external database
- **Load Table** - Will populate the database table with the data in the native PxPlus data file
- **File Action** - Can be used to:
  - Create database link files
  - Add database table entries to the prefix file
- Actions are performed when the **Apply** button is clicked



The screenshot shows the 'Bulk Database Export Utility' window. At the top, it has a title bar with the PVX PLUS logo and the text 'Bulk Database Export Utility'. Below the title bar, there's a 'Target Database' section with fields for 'Database Type' (set to ODB), 'Data Source' (DevonDB), 'Database Name' (DevonDB), 'User Name' (xxxxxx), 'Password' (xxxxxxxx), and 'Additional Options' (NONULLS=Y, NULLPADKEY=Y). There are buttons for 'Create DB File' and 'Load Tables'. Below this is a table with columns: Table, Group, Description, In DB, File Type, Validate, DB Action, Load Table, and File Action. The table lists various database tables and their corresponding actions. The 'Validate' column has checkboxes, and the 'DB Action' column has dropdown menus. The 'Load Table' column has checkboxes, and the 'File Action' column has dropdown menus. At the bottom, there are checkboxes for 'Strip User/Password from Link Files and Prefix Entries' and 'Disable Data Loss Warning', and buttons for 'View Log', 'Apply', and 'Exit'.

Table	Group	Description	In DB	File Type	Validate	DB Action	Load Table	File Action
10POOO			✗	Native	<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
7404			✗	No File	<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
AAAwebster		PO EXPEDITE EXTENTION DATA B	✗	Native	<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
Accounts		Accountszzzzz	✓	No File	<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
Activations	PXPLUS	Activations	✗	Native	<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
amike1		ADDITIONAL INFORMATION DAT	✗	Native	<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
ARCUST		AR Customer	✓	No File	<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
badkey			✗	Native	<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
BalanceSheet		Balancesheet	✓	ODB Link	<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
BC_Header	B/C	BC Header	✗	Native	<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
bigData			✗	Native	<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
bigpasswordnew			✗	No File	<input type="checkbox"/>	No action	<input type="checkbox"/>	No action

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- Check box option to control whether User/Password are stripped from Link Files and Prefix File entries
  - **On** by default to prevent the User and Password information being saved in plain text
- Check box option to control whether the data loss warning message is displayed
  - Disable warning for actions that could possibly overwrite data
    - Creating/Replacing a table
    - Loading a table
    - Creating a Prefix File entry
    - Creating a Link File
  - **Off** by default to help prevent accidental data loss

The screenshot shows the 'Bulk Database Export Utility' window. The 'Target Database' section includes fields for Database Type (ODB), Data Source (DevonDB), Database Name (DevonDB), User Name (xxxxxx), Password (xxxxxxx), and Additional Options (NONULLS=Y;NULLPADKEY=Y). A 'Load Tables' button is present. Below this is a table with columns: Table, Group, Description, In DB, File Type, Edit All -->, Validate, DB Action, Load Table, and File Action. The table lists various tables and their export status. At the bottom, there are two checkboxes: 'Strip User/Password from Link Files and Prefix Entries' (checked) and 'Disable Data Loss Warning' (unchecked). Buttons for 'View Log', 'Apply', and 'Exit' are at the bottom right.

Table	Group	Description	In DB	File Type	Edit All -->	Validate	DB Action	Load Table	File Action
10P000			✗	Native		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
7404			✗	No File		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
AAAwebster		PO EXPEDITE EXTENTION DATA B	✗	Native		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
Accounts		Accountszzzzz	✓	No File		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
Activations	PXPLUS	Activations	✗	Native		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
amike1		ADDITIONAL INFORMATION DAT	✗	Native		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
ARCUST		AR Customer	✓	No File		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
badkey			✗	Native		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
BalanceSheet		Balancesheet	✓	ODB Link		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
BC_Header	B/C	BC Header	✗	Native		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
bigData			✗	Native		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
bigpasswordnew			✗	No File		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action



# EXTERNAL DATABASE EXPORT

- **View Log** button
  - Available only when changes have been applied
  - Displays a log of applied changes as a PDF
  - Can print or save the log PDF, if desired

**PVX PLUS**  
TECHNOLOGIES LTD.

Bulk Database Export Utility

**Target Database**

Database Type: ODB Data Source: DevonDB Database Name: DevonDB Create DB File

User Name: xxxxxx Password: xxxxxx

Additional Options: NONULLS=Y, NULLPADKEY=Y Load Tables

Table	Group	Description	In DB	File Type	Edit All -->	Validate	DB Action	Load Table	File Action
10POOO			✗	Native		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
7404			✗	No File		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
AAAw Webster		PO EXPEDITE EXTENTION DATA B	✗	Native		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
Accounts		Accountszzzzz	✓	No File		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
Activations	PXPLUS	Activations	✗	Native		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
amike1		ADDITIONAL INFORMATION DAT	✗	Native		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
ARCUST		AR Customer	✓	No File		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
badkey			✗	Native		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
BalanceSheet		Balancesheet	✓	ODB Link		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
BC_Header	B/C	BC Header	✗	Native		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
bigData			✗	Native		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action
bigpasswordnew			✗	No File		<input type="checkbox"/>	No action	<input type="checkbox"/>	No action

☒ Strip User/Password from Link Files and Prefix Entries ☐ Disable Data Loss Warning

View Log Apply Exit

# EXTERNAL DATABASE EXPORT

Exporting tables to an external database programmatically via the [\\*dict/sqlmake](#) program

- **Create a table, Load a table and optionally Create the Prefix File entry and Link File**

```
Call "*dict/sqlmake;Convert", fileName$, db_type$, connect$, db_name$, db_table$, db_altname$, db_user$, db_pass$,  
db_options$, pfx_file$, link_file$, noOverwrite, noStripPrompt
```

- **Validate a PxPlus Native data file**

```
Call "*dict/sqlmake;Validate", fileName$, result$
```

- **Create/Merge/Replace a table in the Database from Data Dictionary table**

```
Call "*dict/sqlmake;CreateTable", fileName$, ddf_table$, db_prefix$, connect$, db_name$, db_table$, db_user$, db_pass$,  
db_options$, replace, result$
```

- **Load an External Database table with data from a PxPlus Native data file**

```
Call "*dict/sqlmake;LoadTable", fileName$, db_prefix$, connect$, db_name$, db_table$, db_user$, db_pass$, db_options$, overwrite
```

- **Add to Prefix File entry for the External Database table**

```
Call "*dict/sqlmake;PrefixFile", fileName$, db_prefix$, connect$, db_name$, db_table$, db_altname$, db_user$, db_pass$,  
db_options$, pfx_file$, stripPswd
```

- **Create Link File for the External Database table**

```
Call "*dict/sqlmake;LinkFile", fileName$, db_prefix$, connect$, db_name$, db_table$, db_user$, db_pass$, db_options$, link_file$,  
overwrite, stripPswd
```