

# Ohio Department of Transportation

## BrDR Bridge Copy/Delete/Replace Utility



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[www.transportation.ohio.gov](http://www.transportation.ohio.gov)

# Why?

- We needed a more streamline way to copy files from our general database to a Master database.
- Our general DB (Virtis) is used for creating bridge models, templates, testing models, proposed ratings, what-if scenarios and other tasks that do not necessarily produce finalized or complete models.
- The Master DB (Virtis Master DB) is used for storing final/completed models for rating and permit analysis.



# Key Features

- **Copy a bridge from one database to another database**
- **Replace a bridge in one database with a bridge from another database**
- **Delete a bridge from one database**

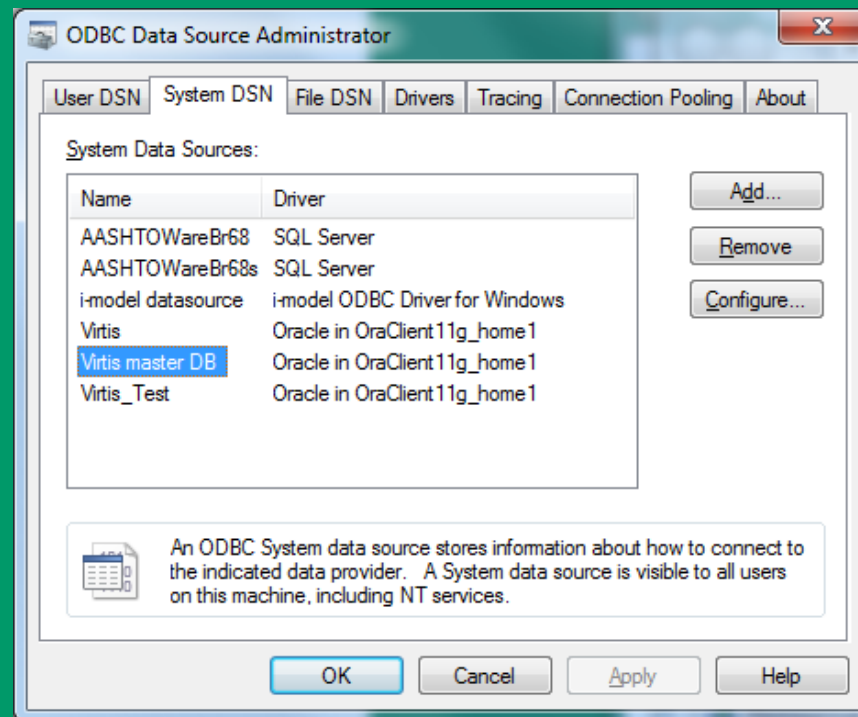


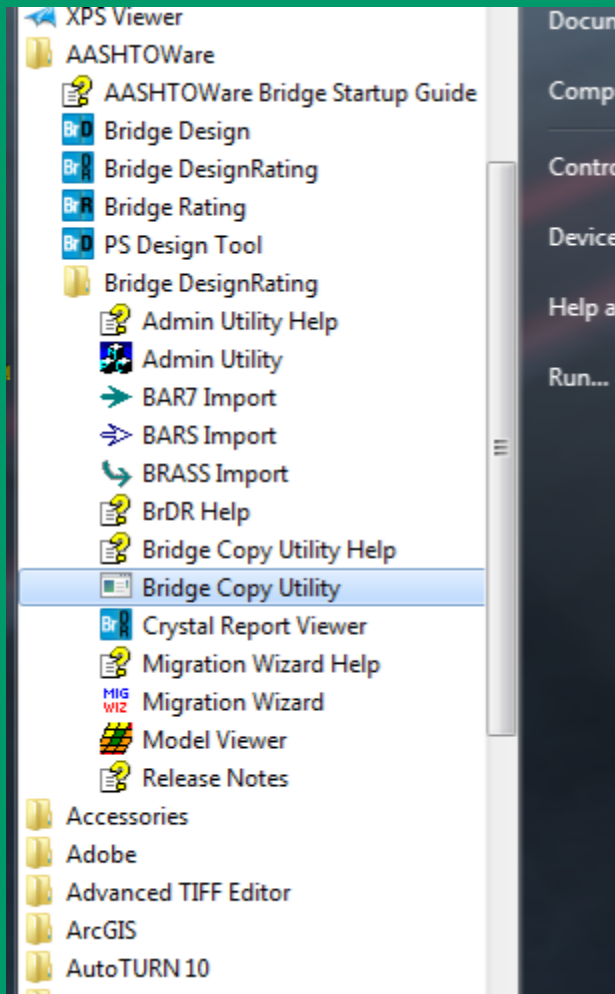
# BrDR Copy Utility

- Each user needs to have the proper permissions to use each feature.
- Both databases must be the same version.
- Can't Copy/Replace or permanently delete bridges in the Deleted Bridges folder.



- The user must have ODBC drivers installed and configured to link to both, From and To DBs on his/her computer before start





- To start Bridge Copy Utility, go to:
  - Start >> All Programs >> AASHTOWare >> Bridge DesignRating >> Bridge Copy Utility

By default, a shortcut on the desktop is not created for this utility during installation

The screenshot displays the 'BrDR Bridge Copy/Delete/Replace Utility' window. It is divided into two main sections: 'BrDR Data Source 1' and 'BrDR Data Source 2'. Both sections have a 'Username' field with 'awaheed' and a 'Password' field with masked characters. The 'Data Source' dropdown in 'BrDR Data Source 1' is highlighted in green and labeled 'Source or From DB' with a red arrow. The 'Data Source' dropdown in 'BrDR Data Source 2' is highlighted in yellow and labeled 'Destination or To DB' with a red arrow. Below each data source section are 'Refresh', 'Disconnect', and 'Connect' buttons, and a checkbox for 'Include Bridges in Deleted Bridges Folder'. At the bottom, there are two empty tables with columns: 'BID', 'Bridge ID', 'Bridge Name', 'NBI Structure ID', 'Deleted', and 'Ch'. Between the tables are buttons for 'Copy to Right >>', '<< Copy to Left', 'Replace Right >>', and '<< Replace Left'.



**BrDR Bridge Copy/Delete/Replace Utility**

**BrDR Data Source 1 ( 6.8.0 (Build 3001) )**

Username:

Password:

Data Source:

Include Bridges in Deleted Bridges Folder

| BID | Bridge ID       | Bridge Name       | NBI Structure ID | Deleted                  | Checked Out?             |
|-----|-----------------|-------------------|------------------|--------------------------|--------------------------|
| 2   | Bridge2         | Example Training  | TrainingBridge2  | <input type="checkbox"/> | <input type="checkbox"/> |
| 3   | Bridge3         | Example Training  | TrainingBridge3  | <input type="checkbox"/> | <input type="checkbox"/> |
| 4   | Bridge01        | Example Matrix B  | AK-TRY-01        | <input type="checkbox"/> | <input type="checkbox"/> |
| 5   | Bridge02        | Example Bridge 0. | 2                | <input type="checkbox"/> | <input type="checkbox"/> |
| 6   | Bridge03        | Example Matrix B  | AK-TRY-03        | <input type="checkbox"/> | <input type="checkbox"/> |
| 7   | Bridge04        | Example Matrix B  | 4                | <input type="checkbox"/> | <input type="checkbox"/> |
| 8   | Bridge05        | Example Matrix B  | AK- TRY-05       | <input type="checkbox"/> | <input type="checkbox"/> |
| 9   | Bridge06        | Example Matrix B  | 6                | <input type="checkbox"/> | <input type="checkbox"/> |
| 10  | Bridge07        | Example Matrix B  | AK-TRY-07        | <input type="checkbox"/> | <input type="checkbox"/> |
| 12  | Bridge09        | Example Matrix B  | AK-TRY-09        | <input type="checkbox"/> | <input type="checkbox"/> |
| 13  | Bridge10        | Example Matrix B  | 39               | <input type="checkbox"/> | <input type="checkbox"/> |
| 14  | ExampleBridge11 | Example Matrix B  | AK-TRY-11        | <input type="checkbox"/> | <input type="checkbox"/> |
| 15  | Bridge12        | Example Matrix B  | 14               | <input type="checkbox"/> | <input type="checkbox"/> |
| 16  | Bridge13        | Example Matrix B  | AK-TRY-13        | <input type="checkbox"/> | <input type="checkbox"/> |
| 17  | PCIBridge1      | Example PCI Train | PCITrainBridge1  | <input type="checkbox"/> | <input type="checkbox"/> |
| 18  | PCIBridge2      | Example PCI Train | PCITrainBridge2  | <input type="checkbox"/> | <input type="checkbox"/> |
| 19  | PCgBridge3      | Example PCI Train | PCITrainBridge3  | <input type="checkbox"/> | <input type="checkbox"/> |
| 20  | PCIBridge4      | Example PCI Train | PCITrainBridge4  | <input type="checkbox"/> | <input type="checkbox"/> |
| 21  | PCI5            | Example PCI Train | PCITrainBridge5  | <input type="checkbox"/> | <input type="checkbox"/> |
| 22  | Bridge6         | Example PCI Train | PCITrainBridge6  | <input type="checkbox"/> | <input type="checkbox"/> |
| 23  | Example7        | Example 7 PS (LFI | Example7         | <input type="checkbox"/> | <input type="checkbox"/> |
| 24  | RCT             | Example RC Train  | RCTrainBridge1   | <input type="checkbox"/> | <input type="checkbox"/> |
| 25  | Timber1         | Example Timber T  | TimberTrBridge1  | <input type="checkbox"/> | <input type="checkbox"/> |
| 26  | 0402591         | ATB-045-1992      | 0402591          | <input type="checkbox"/> | <input type="checkbox"/> |

All 1 selected bridges were deleted.

**BrDR Data Source 2 ( 6.8.0 (Build 3001) )**

Username:

Password:

Data Source:

Include Bridges in Deleted Bridges Folder

| BID | Bridge ID | Bridge Name    | NBI Structure ID | Deleted                  | Checked Out?             |
|-----|-----------|----------------|------------------|--------------------------|--------------------------|
| 26  | 0402591   | ATB-045-1992   | 0402591          | <input type="checkbox"/> | <input type="checkbox"/> |
| 27  | 6004296   | MUS-93-2880    | 6004296          | <input type="checkbox"/> | <input type="checkbox"/> |
| 28  | 7700105   | SUM-8-0911     | 7700105          | <input type="checkbox"/> | <input type="checkbox"/> |
| 30  | 0100021   | ADA-32-0083L   | 0100021          | <input type="checkbox"/> | <input type="checkbox"/> |
| 31  | 0100048   | ADA-32-0083R   | 0100048          | <input type="checkbox"/> | <input type="checkbox"/> |
| 33  | 4704487   | LOR-90-1256 L  | 4704487          | <input type="checkbox"/> | <input type="checkbox"/> |
| 36  | 8702055   | WOO-51-0259    | 8702055          | <input type="checkbox"/> | <input type="checkbox"/> |
| 37  | 2515237   | FRA-315-0205   | 2515237          | <input type="checkbox"/> | <input type="checkbox"/> |
| 38  | 020360    | ALL-103-0152   | 0203602          | <input type="checkbox"/> | <input type="checkbox"/> |
| 39  | 7102445   | ROS-35-2960L   | 7102445          | <input type="checkbox"/> | <input type="checkbox"/> |
| 41  | 7102569   | ROS-35-3116L   | 7102569          | <input type="checkbox"/> | <input type="checkbox"/> |
| 43  | 4002245   | JAC-32-1712    | 4002245          | <input type="checkbox"/> | <input type="checkbox"/> |
| 48  | 2512661   | FRA-270-0399 R | 2512661          | <input type="checkbox"/> | <input type="checkbox"/> |
| 50  | 2002469   | DEF-281-0123   | 2002469          | <input type="checkbox"/> | <input type="checkbox"/> |
| 51  | 3101053   | HAM-22-1615    | 3101053          | <input type="checkbox"/> | <input type="checkbox"/> |
| 52  | 5004896   | MAH-224-2052   | 5004896          | <input type="checkbox"/> | <input type="checkbox"/> |
| 53  | 6900763   | PUT-66-0657    | 6900763          | <input type="checkbox"/> | <input type="checkbox"/> |
| 54  | 6738206   | POR-C052C-CH05 | 6738206          | <input type="checkbox"/> | <input type="checkbox"/> |
| 56  | 8101264   | VAN-066-0063   | 8101264          | <input type="checkbox"/> | <input type="checkbox"/> |
| 57  | 8502013   | WAY-30-1309L   | 8502013          | <input type="checkbox"/> | <input type="checkbox"/> |
| 58  | 8502064   | WAY-30-1215    | 8502064          | <input type="checkbox"/> | <input type="checkbox"/> |
| 59  | 8502110   | WAY-030-1366   | 8502110          | <input type="checkbox"/> | <input type="checkbox"/> |
| 60  | 8502145   | WAY-030-1551   | 8502145          | <input type="checkbox"/> | <input type="checkbox"/> |
| 61  | 8502152   | WAY-020-1662   | 8502152          | <input type="checkbox"/> | <input type="checkbox"/> |





# Copy

- Copies a bridge from one database to another.
- If there is a bridge with the same Bridge ID and/or NBI Structure ID in the destination DB the name of the Bridge ID and NBI Structure ID being copied will be changed.
  - Example: “bridge” to “bridge~1”

# Replace

- Bridges with the same Bridge ID and NBI Structure ID must be selected in each database to active the option to Replace.
- The bridge being replaced will be renamed and moved to the Deleted Bridge folder
- The replacement bridge will be given a new BID number.

# Replace

| BID  | Bridge ID        | Bridge Name    | NBI Structure ID | Deleted                  | Checked Out?             |
|------|------------------|----------------|------------------|--------------------------|--------------------------|
| 4002 | 2902222          | GRE-235-1110   | 2902222          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2230 | 2902494          | GRE-380-0671   | 2902494          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2547 | 2902702          | GRE-444-0438   | 2902702          | <input type="checkbox"/> | <input type="checkbox"/> |
| 1299 | 2902761          | GRE-444-0697   | 2902761          | <input type="checkbox"/> | <input type="checkbox"/> |
| 1300 | 2902788          | GRE-725-0193   | 2902788          | <input type="checkbox"/> | <input type="checkbox"/> |
| 4005 | 2903156          | GRE-675-0148 L | 2903156          | <input type="checkbox"/> | <input type="checkbox"/> |
| 4531 | 2903318          | GRE-675-0352R  | 2903318          | <input type="checkbox"/> | <input type="checkbox"/> |
| 4217 | 2903385          | GRE-675-0512 R | 2903385          | <input type="checkbox"/> | <input type="checkbox"/> |
| 1304 | 2903989          | GRE-675-1340 L | 2903989          | <input type="checkbox"/> | <input type="checkbox"/> |
| 1305 | 2903997          | GRE-675-1340 R | 2903997          | <input type="checkbox"/> | <input type="checkbox"/> |
| 3368 | 2904055          | GRE-675-1449 L | 2904055          | <input type="checkbox"/> | <input type="checkbox"/> |
| 3367 | 2904063          | GRE-675-1449 R | 2904063          | <input type="checkbox"/> | <input type="checkbox"/> |
| 3353 | 2904179          | GRE-675-1522 L | 2904179          | <input type="checkbox"/> | <input type="checkbox"/> |
| 3352 | 2904187          | GRE-675-1522 R | 2904187          | <input type="checkbox"/> | <input type="checkbox"/> |
| 4004 | 2904241          | GRE-675-1540 L | 2904241          | <input type="checkbox"/> | <input type="checkbox"/> |
| 4003 | 2904292          | GRE-675-1600L  | 2904292          | <input type="checkbox"/> | <input type="checkbox"/> |
| 4490 | 2904306          | GRE-675-1600R  | 2904306          | <input type="checkbox"/> | <input type="checkbox"/> |
| 1307 | 2904330          | GRE-675-1640 L | 2904330          | <input type="checkbox"/> | <input type="checkbox"/> |
| 1308 | 2904349          | GRE-675-1640 R | 2904349          | <input type="checkbox"/> | <input type="checkbox"/> |
| 3596 | 2904373          | GRE-675-1720 L | 2904373          | <input type="checkbox"/> | <input type="checkbox"/> |
| 4200 | 2904381          | GRE-675-1720R  | 2904381          | <input type="checkbox"/> | <input type="checkbox"/> |
| 3577 | 2904438          | GRE-675-1753   | 2904438          | <input type="checkbox"/> | <input type="checkbox"/> |
| 3524 | 2904519          | GRE-835-0209   | 2904519          | <input type="checkbox"/> | <input type="checkbox"/> |
| 1066 | 2904519-existing | GRE-835-0207   | 2904519-existing | <input type="checkbox"/> | <input type="checkbox"/> |

Copy to Right >>

<< Copy to Left

Replace Right >>

<< Replace Left

Delete Right >

< Delete Left

| BID  | Bridge ID | Bridge Name   | NBI Structure ID | Deleted                  | Checked Out?             |
|------|-----------|---------------|------------------|--------------------------|--------------------------|
| 2618 | 4601564   | LOG-68-0979   | 4601564          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2617 | 2903318   | GRE-675-0352R | 2903318          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2615 | 0502294   | ATH-550-0542  | 0502294          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2614 | 0500895   | ATH-33-1598 R | 0500895          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2613 | 0500887   | ATH-33-1598L  | 0500887          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2612 | 0901539   | BUT-75-0048R  | 0901539          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2611 | 0500593   | ATH-33-0236 R | 0500593          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2610 | 0500585   | ATH-33-0236 L | 0500585          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2609 | 3203034   | HAN-75-1700   | 3203034          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2608 | 7702523   | SUM-77-0802R  | 7702523          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2607 | 0201669   | ALL-75-0100R  | 0201669          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2606 | 0500445   | ATH-13-1588   | 0500445          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2605 | 2904306   | GRE-675-1600R | 2904306          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2604 | 2904292   | GRE-675-1600L | 2904292          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2603 | 7501749   | SHE-75-0566R  | 7501749          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2602 | 0500178   | ATH-13-0458   | 0500178          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2601 | 0403636   | ATB-90-0233   | 0403636          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2600 | 0901474   | BUT-75-0021R  | 0901474          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2599 | 3200876   | HAN-15-2538R  | 3200876          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2598 | 3200841   | HAN-15-2538L  | 3200841          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2597 | 6101089   | NOB-78-0180   | 6101089          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2596 | 6101054   | NOB-78-0109   | 6101054          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2595 | 0403601   | ATB-90-0138   | 0403601          | <input type="checkbox"/> | <input type="checkbox"/> |
| 2594 | 7101678   | ROS-35-1340   | 7101678          | <input type="checkbox"/> | <input type="checkbox"/> |



# Delete

- Move the bridge to the Deleted Bridge folder
- There is a check box option to include bridges in the Deleted Folder
- The bridges deleted by accident can be restored from the Delete Bridge folder

# Questions?



# Thank You!



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