

Symptom

How can a single source unx or a unv be converted to a multi-source unx universe?

When trying to do this, the following error may occur:

```
Refresh failed.  
com.businessobjects.mds.datafoundation.impl.SQLDataSourceImpl  
cannot be cast to  
com.businessobjects.mds.datafoundation.DataFederatorDataSource
```

Environment

SAP BusinessObjects Business Intelligence 4.0

Reproducing the Issue

In the Information Design Tool (IDT)

1. Retrieve an existing single source universe
2. Create a new project
3. To the new project, add a shortcut to the same connection that's used by the retrieved universe
4. To the new project, add a Data Foundation Layer, selecting "Multisource Enabled"
5. In the retrieved universe, open the dfx, click in the Master view pane, and press CTRL-A to select all of the tables. Note that the joins won't be selected (this is the first clue as to why this isn't going to work). Hold the CTRL button and select each join individually until they are all selected.
6. Right-click on a table (making sure all tables and joins are still highlighted) and select Copy.
7. In the new project, open the dfx, click in the Master view pane, and press CTRL-V to past all of the tables and joins.
8. Save the new project.
9. In the new project, create a new Business Layer
10. In the Business Layer, select the Queries panel and create a new query
11. When the query is refreshed or run, the error will occur.

Cause

At the code level, the objects that represent joins in single source universes are completely different objects than the ones that represent joins in a multi-source universe. The error means that it's not possible for the joins to be converted to the other kind of join.

The fundamental difference is that single source universes access the ConnectionServers directly, while multi-source universes go through the Data Federator server. These connection methods are sufficiently different that it's not possible to convert between them.

Resolution

It is not possible to convert a single source universe to a multi-source universe.

Note

There may be concerns with regards to linked unv universes being converted to unx and being restricted to single source. Linked universes have always been required to be built from the same connection, so there will not be any unv universes that require a multi-source universe when converted to unx.

When a linked unv universe is converted to unx, all of the linked universes are retrieved and brought into the host universe so that the end result is that there is only 1 unx and it contains everything the original universe contained along with everything the linked universes did as well.

Keywords

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Header Data

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Product

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