Synchronizing Requirements

Data synchronization is the process of sending all changes in the attribute values including a list of deleted items from a source to target data. Either the source or target must be a MagicDraw® node.

Data synchronization allows you to maintain the consistency of data across nodes in different Data sources and applications. During synchronization, all types of changes in a Data Source or application are stored in the DHLink map along with the project in its repository.

In addition to the **Synchronize** command on the DataHub Actions menu, DataHub provides the synchronization option through the DataHub main menu and the **Synchronize** buttons in the Containment tree and DataHub Explorer.

Data synchronization can be categorized into two functional types: Data Source synchronization and node synchronization.
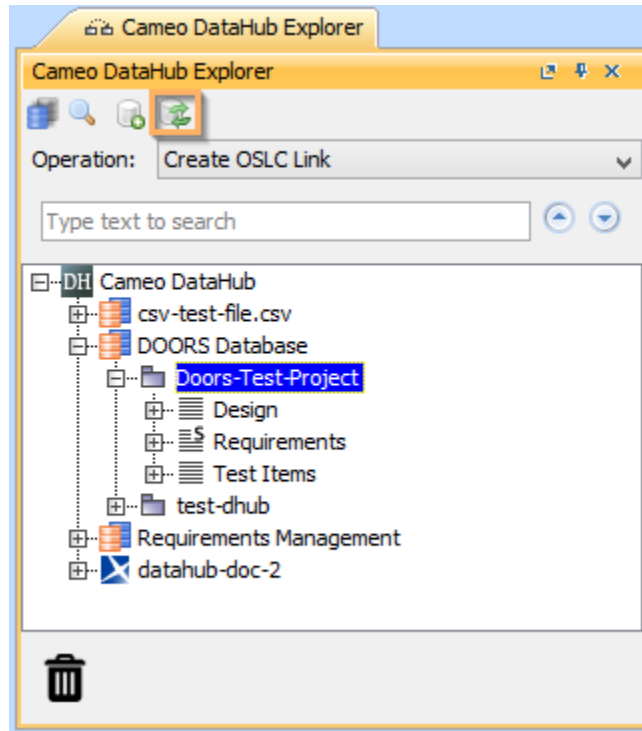
Data Source synchronization is to synchronize all items in the entire Data Source that have DHLinks in a current project in an application.

Node Synchronization allows you to synchronize a specific node using either of the following mode:
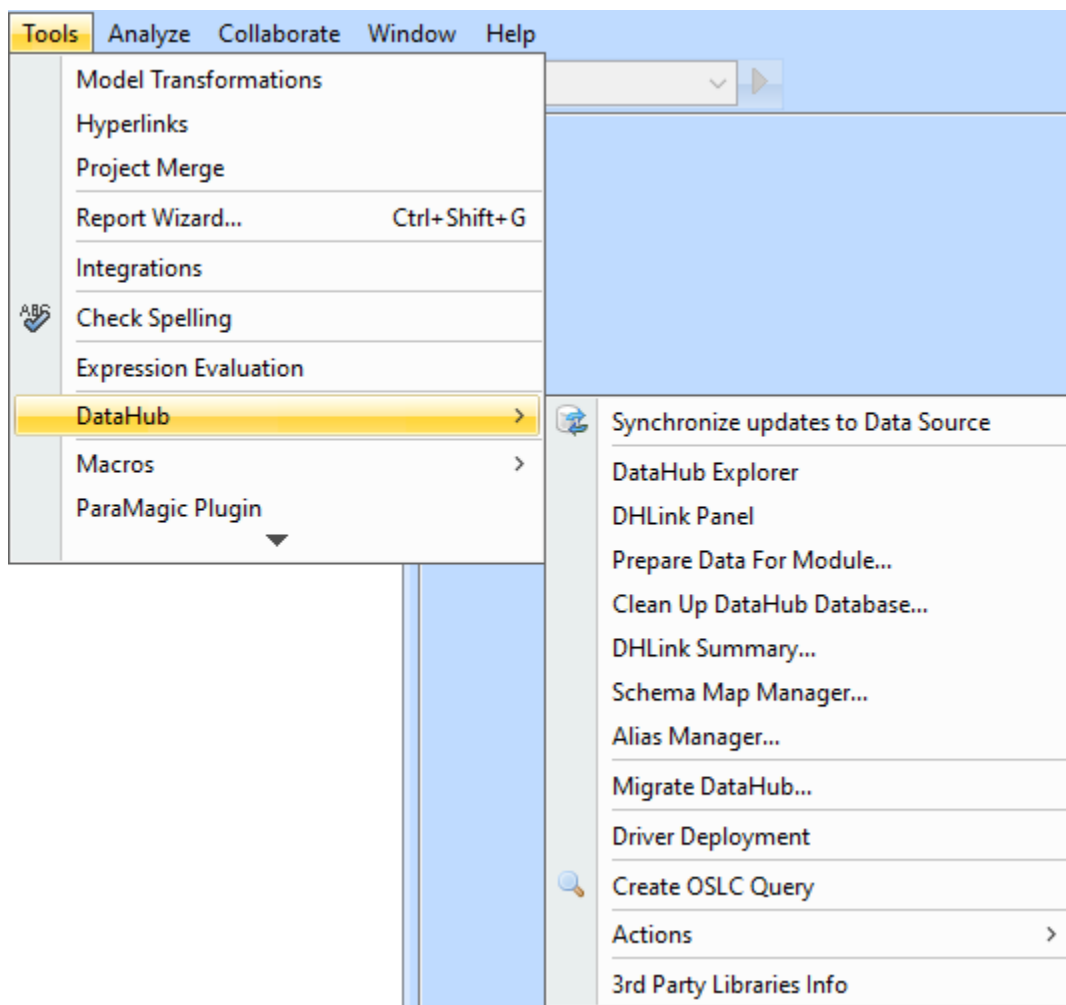
- **Synchronize Node**
- **Synchronize Node Recursively**.

> **Note**
> DataHub ignores all excluded nodes in the Sync relations during data synchronization.

You can perform synchronization on the selected node by clicking the **Synchronize** button on the **DataHub Explorer** toolbar.

The Synchronize button on the DataHub Explorer toolbar.

Alternatively, you can perform synchronization from the MagicDraw® main menu by clicking **Tools** > **DataHub** > **Synchronize updates to Data Source**.

Performing synchronization from the MagicDraw main menu.

Related pages

- Data Source synchronization
- Node synchronization
- Conflict Dashboard
- Directions of synchronization