ibi™ MDM Add-on for Global Data Synchronization

Installation

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Global Data Synchronization Network Overview

GDSN is a web-based interconnected network of inter-operable data pools and a global registry. The Global Data Synchronization Network (GDSN) has been created as an industry endorsed initiative to overcome product data inaccuracies and increase efficiency among trading partners and their supply chains.

You can use GDSN to capture and exchange product information in a secure environment conforming to global standards. With GDSN, assures that data exchanged between trading partners is accurate and compliant with universally supported standards.

GDSN consists of:

- Supplier and retailer trading partner
- Data pools that hold and process trading partner data
- GS1 Global Registry
- A directory that helps locate data sources and keep relationships between trading partners in sync.

With GDSN, trading partners always have the latest information in their systems. Any changes made to one company's database are automatically and immediately provided to all of the other companies who do business with them.

With accurate and updated data, a supplier and a customer can do business in a smoother, quicker, and less expensive way.

ibi MDM Add-on for Global Data Synchronization

ibi MDM provides Global Data Synchronization Network (GDSN) functionality through an add-on component that be installed on a computer where the standard version of ibi MDM is already installed.

Most of the functionality between ibi MDM and ibi MDM Add-on for Global Data Synchronization is common. The add-On provides incremental functionality specific to GDSN, displayed through the menu options, pages, and options on the pages.

This add-on includes GDSN specific workflows, maps, rulebases, and so on. GDSN specific UI and functionality are not available with the ibi MDM edition.

Note: When the add-on is installed, resource bundles are not switched automatically. Due to this the ibi MDM installation can continue using the terminology even when the add-on is installed. You can switch the language bundle through the **Software Edition** property in the Configurator.

Installation Overview

Download ibi MDM Add-on for Global Data Synchronization from https://edelivery.tibco.com. After you download, install it by using the installer provided.

Consider the following points when installing the ibi™ MDM Add-on for Global Data Synchronization:

- **Latest version of ibi MDM**: Recommends that you are on the latest base version of ibi MDM.
- **ibi MDM Add-on For Global Data Synchronization Installation**: Install the ibi MDM Add-on for Global Data Synchronization. For details, see Installation Overview.
- **Add-on Plug-in Installer (Using Configurator)**: Run the Add-on Plug-in installer wizard through the Configurator to install for database, configuration, and other dependent file migration. For details, see Running Add-on Plug-in Installer Using Configurator.

Installing ibi MDM Add-on for Global Data Synchronization

Before you begin

1. Verify that your computer meets the System requirements. The system requirements are listed in the `readme.txt` file.
2. Download the Installer. The application is available as a ZIP file.
3. Extract the contents of the ZIP file to a folder on your computer.

Procedure

1. Run the `TIBCOUniversalInstaller.exe` application.

   The TIBCO Universal Installer Welcome page is displayed.
2. Review the information and click **Next**.

   The license agreement is displayed.
3. Review the terms of the license agreement, accept the license agreement and click **Next**.

   The Installation Profile Selection window is displayed. By default, **Add-on For Global Data Synchronization** is selected.
4. In the Installation Profile Selection window, perform one of the following steps:
   a. Select the **Create a new TIBCO_HOME** option. A TIBCO installation environment is used for software installations and consists of a Name and Directory. Products installed in different installation environments do not share components; therefore you can keep product installations completely isolated from each other.
      - **Directory**: browse to the directory where product needs to be installed and provide a unique environment name. Ensure that you have write

permission to this directory.

- **Name**: specify the environment name to easily identify your environment by, for example 'User Acceptance' or 'Procurement Department'.

b. If you have previously installed a TIBCO product using the Universal Installer, you can select the **Use an existing TIBCO_HOME**option. By default, the installer detects the directory for your TIBCO_HOME and displays the path.

> **Note:** If you had installed the application earlier, the directory cannot be modified. For a new installation, the directory can be changed.

5. Click **Next**. In the Pre-Install Summary window, review a list of the components that are installed and the installation environment details and click **Next**.

   If you want to change any of your choices, click **Back** to step back through the dialog boxes to the appropriate point. You can then restart the installation process from that point.

6. When you are satisfied with your choices, click **Install**. The installation process starts.
7. In the Post Install Summary window, review a list of the components that are installed and the installation environment details.
8. To exit from the installer, click **Finish** .

Creating a TIBCO Module

In some cases, additional external modules must be created to configure out-of-the-box functionality. Create the `module.xml` file to provide access to classes that are defined in JARs.

Procedure

1. Navigate to the `$JBOSS_HOME/modules/system/layers/base/com` folder and create the following hierarchical folders: `tibco/gdsn/main`
2. Navigate to `$MQ_HOME\plugins\gdsn\`*`version`*`\lib\props` and copy the `GDSNProps.jar` file and place it in the `$JBOSS_HOME\modules\system\layers\base\com\tibco\gdsn\main` folder.

3. Create a `module.xml`file at `$JBOSS_HOME/modules/system/layers/base/com/tibco/gdsn/main` and define the actual JAR file inside the module.xml file. See the following sample:

```
<?xml version="1.0" encoding="UTF-8"?>
<module xmlns="urn:jboss:module:1.1" name="com.tibco.gdsn">
  <resources>
    <resource-root path="GDSNProps.jar"/>
  </resources>
</module>
```

4. Save the `module.xml` file
5. Open the `standalone.xml` file located in the `$JBOSS_HOME/standalone/configuration` directory.
6. Add the TIBCO module to the global modules list in the `<subsystem xmlns="urn:jboss:domain:ee:4.0">` section.

```
<subsystem xmlns="urn:jboss:domain:ee:4.0">
      <global-modules>
          <module name="com.tibco.gdsn" slot="main"/>
      </global-modules>
 </subsystem>
```

7. Save the `standalone.xml` file.

Elements in Module XML File

Element Name	Description
Module Name	It must match with the directory structure that you have created. For example, the directory structure is `$JBOSS_HOME\modules\system\layers\base\com\tibco\gdsn\main`. Therefore, the module name is `com.tibco.gdsn`.
resource-root path	Specify the driver JAR file name. The path is relative and default to the `main` directory.

Running the Add-on Plug-in Installer from the Configurator

You can access the Add-on Plug-in installer wizard by using the Configurator. You can install the new version of ibi MDM Add-on for Global Data Synchronization over the version of ibi MDM or migrate from the existing version to the new version. You can install and run e all the necessary database scripts. The wizard also merges the ibi MDM Add-on for Global Data Synchronization configuration (`ConfigValues.xml`) with the main ibi MDM configuration.

Before you begin

Before running the Add-on Plug-in installer wizard, perform the following tasks:

1. To use ibi MDM Add-on for Global Data Synchronization, you must first install the latest version of ibi MDM.
2. To migrate from the existing version of ibi MDM to the latest version, see the "Upgrade to ibi MDM" section in *ibi™ MDM Installation and Configuration Guide*.
3. Before you begin the migration, take a backup of the existing database, `ConfigValues.xml` file, and the add-on component such as `MQ_COMMON_DIR`.

Procedure

1. Log in to the TIBCO Configurator.
2. From the **Tools** menu, select **Add-on Plug-in Installer**.
3. In the Add-on Plug-in Installer window, perform the following steps:
    a. Select **Plug-in for ibi MDM Add-on for Global Data Synchronization - *version***.
    b. Select one of the installation modes:
        - Select **Install new Version** to install the new version.
        - Select **Migration from existing version** to migrate to the new version from your current version. **From** and **To** versions must be provided.

4. Click **Next**.
5. In the Select Installation Type window, do one of the following:
   - **Complete**: By default, this option is selected. If this option is selected, all the default components - Database, `ConfigValues.xml`, and the Add-on components (all other required files) are migrated.
   - **Custom**: Select **Custom** to specify the individual components to migrate.
     - **Database**: Selecting this option updates the existing database with new tables and updates the existing tables.
     - **ConfigValues.xml**: Selecting this option merges the configuration properties of ibi MDM and ibi MDM Add-on for Global Data Synchronization.
     - **Add-on components**: Selecting this option updates `MQ_COMMON_DIR` with some required components.

   Note: If you are migrating from 3.0.2 to 4.0.0 version, the database migration is already completed as a part of ibi MDM migration. Therefore, select only the **ConfigValues.xml** and **Add-on components** options.
6. Click **Next**.
7. In the Plug-in Installation Details window, verify the path for `MQ_COMMON_DIR` .

   This value is automatically detected based on environment variables. You can update this path if required.
8. Click **Next**.
9. In the Define Database Details window, select the Database Name, User Name, Password, Database Home, and MDM Tablespace Name (this information is retrieved from `ORACLE_HOME`). The default value for the MDM Tablespace Name is `VELODBDATA1` .

   Note: This step is displayed only if you have selected the complete installation or if you have selected the database component in the **Custom** installation.
10. Click **Next**.

11. In the Define Database Details window, select the Database Name, User Name, Password, Database Home, and Server Name (this information is retrieved from `SQLSERVER_HOME`).

    > **Note:** This step is displayed only if you have selected the complete installation or if you have selected the database component in the Custom installation.

12. Click **Finish**.

    The installation summary is displayed. The output logs are also displayed and can be downloaded for troubleshooting, if required.

Uninstalling ibi MDM Add-on for Global Data Synchronization

Procedure

1. On Windows: navigate to `%MQ_HOME%/tools/universal_installer` and run `TIBCOUniversalInstaller-x86-64.exe` or navigate to **All Programs > TIBCO** and click **Uninstall**.
2. On UNIX, navigate to `$MQ_HOME/tools/universal_installer` and run `TIBCOUniversalInstaller-lnx-x86-64.bin`.

   This starts Universal Installer through which you can uninstall ibi MDM Add-on for Global Data Synchronization.
3. In the TIBCO Installation Manager window, select the **Uninstall Products From Selected TIBCO Home Location** option and click **Next**.

   The TIBCO home location is automatically displayed.
4. In the Welcome window, review the information and click **Next**.
5. To individually select certain features for uninstallation, in the Uninstallation Type window, select the **Custom > Uninstall** option and click **Next**.
6. In the Product Uninstall Selection window, select **ibi MDM Add-on for Global Data Synchronization** and click **Next**.
7. In the Pre-Uninstall Summary window, review the information and ensure that it is correct.
8. To exit from the installer, in the Post Uninstall Summary window, click **Finish** .

Glossary

A

ActiveEnterprise

One of the three product groupings within TIBCO Software Inc, focused on enterprise application integration. The other two are ActivePortal™ and ActiveExchange™ (see www.tibco.com for details).

alert

A notification to an end-user, for example, scheduled alerts deliver portal headlines to a chosen device. See also real-time alert.

C

common page

A logical name-value binding to identify a portal page in page layout templates, regardless of where that portal page exists in the page tree. Provides for flexibility and ease of template maintenance.

community site

A type of portal site created and used by business users in support of team communications.

D

deployment descriptor

An XML file that describes the configuration of a web application. It's located in the WEB-INF directory of the application's WAR file.

DMZ

An acronym for demilitarized zone, this term is used metaphorically for that part of a network between an inner and an outer fire wall. Machines placed in the DMZ may be available to authorized users outside the firewalls, whereas machines placed behind the DMZ are protected from outside access.

domain

In TIBCO Administrator, two kinds of domains are used. See also administration domain and application domain for details.

S

SOAP (Simple Object Access Protocol)

A basic web services standard for making web services available remotely. See www.w3C.org/TR/SOAP/for details. See also UDDI, WSIL, WSDL, WSRP

TIBCO Documentation and Support Services

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the TIBCO Product Documentation website, mainly in HTML and PDF formats.

The TIBCO Product Documentation website is updated frequently and is more current than any other documentation included with the product. To access the latest documentation, visit https://docs.tibco.com.

Product-Specific Documentation

The following documentation for ibi™ MDM Add-on for Global Data Synchronization is available at ibi™ MDM Add-on for Global Data Synchronization Product Documentation page:

- ibi™ MDM Add-on for Global Data Synchronization *Release Notes*
- ibi™ MDM Add-on for Global Data Synchronization *Installation*
- ibi™ MDM Add-on for Global Data Synchronization *User Guide*

To access documentation for this product, go to the following location:

TIBCO_HOME`/release_notes/TIB_cim-gdsn_4.0.0_docinfo.html`

Here, *TIBCO_HOME* is the top-level directory in which TIBCO products are installed. On Windows, the default *TIBCO_HOME* is `C:\tibco`. On UNIX systems, the default *TIBCO_HOME* is `/opt/tibco`.

How to Contact TIBCO Support

You can contact TIBCO Support in the following ways:

- For an overview of TIBCO Support, visit http://www.tibco.com/services/support.
- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the TIBCO Support portal at https://support.tibco.com.

- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to https://support.tibco.com. If you do not have a user name, you can request one by clicking Register on the website.

How to Join TIBCO Community

TIBCO Community is the official channel for TIBCO customers, partners, and employee subject matter experts to share and access their collective experience. TIBCO Community offers access to Q&A forums, product wikis, and best practices. It also offers access to extensions, adapters, solution accelerators, and tools that extend and enable customers to gain full value from TIBCO products. In addition, users can submit and vote on feature requests from within the TIBCO Ideas Portal. For a free registration, go to https://community.tibco.com.

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