



IBM Global Data Synchronization for WebSphere Product Center  
V1.1.1.1

# Installation, Configuration and Administration Guide



Note: Before using this information and the product it supports, read the information in "Notices" on page 88.

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This edition of this document applies to IBM Global Data Synchronization for Websphere Product Center, version 1.1.1.1, and to all subsequent releases and modifications until otherwise indicated in new editions.

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# About This Document

## **Audience**

The objective of this guide is to facilitate the installation and configuration of the IBM Global Data Synchronization for WebSphere Product Center solution for supply and demand

The intended audiences for this guide are the system administrators and the IT analysts.

## **Related Documentation**

The following related Global Data Synchronization Demand documentation is also available:

- User Guide
- Customization guide
- Release Notes

## **Typographic Conventions**

This document uses the following conventions:

- `Courier New font` - Indicates commands, directory names, user names, path names, and file names.
- **Note** - Indicates important or clarifying information including exceptions, interdependencies, and special situations.
- **Tip** - Indicates a helpful action that will simplify or streamline the current procedure.
- **bold font** - Indicates buttons, tabs, menus, and keyboard key names. For example, the **Save** button.
- *Italics font* - Indicates screen names. For example, the *Login* screen.

## **Terms and Acronyms**

<b>Term/Acronym</b>	<b>Description</b>
Trade Item	A Trade Item is any product or service for which there is a need to retrieve pre-defined information and that may be priced, ordered or invoiced at any point in any supply chain.
Global Trade Item Number (GTIN)	This is a unique 14-digit number used to identify trade items. The first 13 digits represent the item reference number and the last digit is the check digit.
Global Location Number (GLN)	This is a unique 13-digit number used identify a trade location. The first seven digits represent the Company prefix, the next five digits represent the trade location, and the last digit is the check digit.
Target Market (TM)	Geographic areas in which a trade item is available for sale.

Term/Acronym	Description
Information Provider (IP)	Information provider indicates the information owner. For example, Distributor, broker, Manufacturer, or Franchisee. The retailer could receive information from both sellers and this field indicates the information owner.
Global Attributes	A global attribute indicates that the attribute is relevant for business cases around the world, and can only have a single value throughout the world. (For example, GTIN).
Global-Local Attributes	A global/local attribute indicates that the field is relevant for business cases around the world. Its definition is the same but may have a different value depending on the geography. (For example, VAT tax values, 1.00 in France, 1.05 in Belgium)
Local Attributes	A local attribute is only relevant in certain geographical areas, and the values may change based on where the product is offered for sale. (For example, green dot – only relevant in certain European countries.)
Data Pool	A repository of data where trading partners can obtain, maintain, and exchange information on items and parties in a standard format.
Global Registry	A directory for the registering the items. The item is identified by the GTIN, GLN, and Target Market. Each combination of this key data found in the Global Registry must be unique. When an item is registered, the registry verifies that the combination of this data is unique to that item.



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## Ch 1 Overview

Global Data Synchronization is the process by which trading partners exchange basic information about products on an ongoing basis. The information can be on price, party, and other relationship-specific details. This process ensures that all stakeholders for a product are kept in “sync” about the latest information on the product.

Global Data Synchronization enables you to:

- Reduce costs and increase competitiveness through the efficient and accurate transfer and on-going synchronization of information.
- Lay the foundation for future supply chain collaboration initiatives which require that trading partners are in “sync” on the basic product, price, party, and relationship specific information.

Note: This document explains procedures for installing and configuring IBM Global Data Synchronization for WebSphere Product Center solution for both Demand and Supply component users. Follow instructions that are applicable to you depending on whether you are installing a demand side component or a supply side component.

### **System Requirements**

This chapter details the minimum hardware and software required for installing the IBM Global Data Synchronization for WebSphere Product Center solution.

Note: The requirements listed in this section are the minimum hardware and software recommendations. Prior to installation, a requirement analysis is recommended by WebSphere Professional Services to plan hardware considerations based on the choice of software used and the projected load volume of the servers (that is, the number of SKU's and transaction rates.)

### **AIX requirements**

This section outlines the hardware and software requirements for the following platform:

Operating System	Application Server	Database Server
AIX Version 5L v5.2	IBM WebSphere Application Server Network Deployment Version 5.0.2.5	IBM DB2 II Version 8.1 Advanced Edition, Fix Pack 5 OR Oracle 9.2.0.5 Enterprise Edition



## WebSphere Application Server/DB2 on AIX

<b>Application Server</b>	
Software	WebSphere Application Server Network Deployment 5.0.2.5 AIX 5L 5.2 (32 & 64 bit) IBM HTTP Server 2.0 IBM JDK bundled with WebSphere Application Server Network Deployment 5.0.2.5
Hardware	Server Type – IBM p630 Model 6C4 Processor – 4 x 64-bit POWER4+ 1.45 Memory – 8 GB Disk Sub-System – 144 GB SCSI
<b>Database Server</b>	
Software	DB2 II 8.1 Advanced Edition Fixpack 5 AIX 5L 5.2
Hardware	Server Type – IBM p630 Model 6C4, PE2650 Processor – 4 x 64-bit POWER4+ 1.45 GHz Memory – 8 GB Disk Sub-System – 420 GB SCSI
<b>Additional Software</b>	
<p>This primary stack is also bundled with the following:</p> <p>WebSphere MQ Series V5.3 (1)</p> <p>WebSphere Business Integration Adapter for WebSphere MQ V2.5.0 (1, 2)</p> <p>WebSphere Business Integration Adapter Framework V2.4.0 (1, 2)</p> <p>(1) A limited use license is included with WebSphere Product Center</p> <p>(2) Required when integrating with a process hub</p>	

## WebSphere Application Server/Oracle on AIX

<b>Application Server</b>	
Software	WebSphere Application Server Network Deployment 5.0.2.5 AIX 5L 5.2 IBM HTTP Server 2.0

	IBM JDK bundled with WebSphere Application Server Network Deployment 5.0.2.5
Hardware	Server Type – IBM p630 Model 6C4 Processor – 4 x 64-bit POWER4+ 1.45 GHz Memory – 8 GB Disk Sub-System – 144 GB SCSI
<b>Database Server</b>	
Software	Oracle 9.2.0.5 Enterprise Edition AIX 5L 5.2
Hardware	Server Type: Intel compatible Processor: Dual Intel, XEON 2.8 GHz Hardware Processor: Dual Intel, XEON 2.8 GHz Memory: 8 GB Disk Sub-System: 365 GB 10K RPM SCSI Driver

### Linux requirements

Operating System	Application Server	Database Server
Red Hat Enterprise Linux ES 2.1	WebSphere Application Server 5.0.2.5	IBM DB2 II Version 8.1 Advanced Edition, Fix Pack 5 OR Oracle 9.2.0.5
Red Hat Enterprise Linux ES 2.1	WebLogic Server 7.0	Oracle 9.2.0.5 Enterprise Edition

### WebSphere Application Server/DB2 on Linux

<b>Application Server</b>	
Software	WebSphere Application Server Network Deployment 5.0.2.5 IBM HTTP Server 2.0 Red Hat Enterprise Linux ES 2.1 IBM JDK bundled with WebSphere Application Server

	Network Deployment
Hardware	Server Type: Intel compatible Processor: Dual Intel, XEON 2.8 GHz Memory: 8 GB Disk Sub-System: 365 GB 10K RPM SCSI Driver
<b>Database Server</b>	
Software	DB2 II 8.1 Advanced Edition Fixpack Red Hat Enterprise Linux ES 2.1
Hardware	Server Type: Intel compatible Processor: Dual Intel, XEON 2.8 GHz Memory: 8 GB Disk Sub-System: 365 GB 10K RPM SCSI Driver

### WebSphere Application Server/Oracle on Linux

<b>Application Server</b>	
Software	WebSphere Application Server Network Deployment 5.0.2.5 IBM HTTP Server 2.0 Red Hat Enterprise Linux ES 2.1 IBM JDK bundled with WebSphere Application Server Network Deployment
Hardware	Server Type: Intel compatible Processor: Dual Intel, XEON 2.8 GHz Memory: 8 GB Disk Sub-System: 365 GB 10K RPM SCSI Driver
<b>Database Server</b>	
Software	Oracle 9.2.0.5 Enterprise Edition Red Hat Enterprise Linux ES 2.1
Hardware	Server Type: Intel compatible Processor: Dual Intel, XEON 2.8 GHz Memory: 8 GB Disk Sub-System: 365 GB 10K RPM SCSI Driver

## WebLogic/Oracle on Linux

Application Server	
Software	WebLogic Server 7.0 Apache HTTP Server 2.0 Red Hat Enterprise Linux ES 2.1 WebLogic JDK bundled with WebLogic Server 7.0
Hardware	Server Type: Intel compatible Processor: Dual Intel, XEON 2.8 GHz Memory: 8 GB Disk Sub-System: 365 GB 10K RPM SCSI Driver
Database Server	
Software	Oracle 9.2.0.5 Enterprise Edition Red Hat Enterprise Linux ES 2.1
Hardware	Server Type: Intel compatible Processor: Dual Intel, XEON 2.8 GHz Memory: 8 GB Disk Sub-System: 365 GB 10K RPM SCSI Driver

## HP-UX requirements

Operating System	Application Server	Database Server
HP UX 11i	WebLogic Server 7.0	Oracle 9.2.0.5 Enterprise Edition

## WebLogic/Oracle on HP-UX

Application Server	
Software	WebLogic Server 7.0 Apache HTTP Server 2.0 HP/UX 11i WebLogic JDK bundled with WebLogic Server 7.0
Hardware	Server Type: HP RP 4440 Processor: 2 CPUs Processor: 2 CPUs Memory: 4 GB

	Disk Sub-System: HP MSA 1000
<b>Database Server</b>	
Software	Oracle 9.2.0.5 Enterprise Edition HP/UX 11i
Hardware	Server Type: HP RP 4440 Processor: 2 CPUs Memory: 4 GB Disk Sub-System: HP MSA 1000

### Solaris Requirements

Operating System	Application Server	Database Server
Solaris 9	WebSphere Application Server 5.0.2.5	Oracle 9.2.0.5
<b>Application Server</b>		
Software	WebSphere Application Server Network Deployment 5.0.2.5 IBM HTTP Server 2.0 Solaris 9 IBM JDK bundled with WebSphere Application Server Network Deployment	
Hardware	Server Type: Intel compatible Processor: Dual Intel, XEON 2.8 GHz Memory: 8 GB Disk Sub-System: 365 GB 10K RPM SCSI Driver	
<b>Database Server</b>		
Software	Oracle 9.2.0.5 Enterprise Edition Solaris 9	
Hardware	Server Type: Intel compatible Processor: Dual Intel, XEON 2.8 GHz Memory: 8 GB Disk Sub-System: 365 GB 10K RPM SCSI Driver	

## Client requirements

Operating environment	
Software	Microsoft Windows 2000 Professional Service Pack 3 OR Microsoft Windows XP Professional Service Pack 1 AND Browser: Microsoft Internet Explorer Version 6.0 Service Pack 1
Hardware	Processor: Intel-based system with a Pentium 3 processor and a minimum processor speed of 750 MHz Memory: 256 MB

Note: If your IE browser displays any other tool bar other than a IE tool bar( for example, the Yahoo toolbar), then error messages such as “Page not found” may be displayed when working with the IBM Global Data Synchronization for WebSphere Product Center solution. Therefore, ensure that you do not have any other toolbars other than IE toolbars. Also ensure that no other utilities are installed on your IE browser.

### ***Pre-requisites to install IBM Global Data synchronization for WebSphere Product Center***

This section provides the pre-requisites necessary before installing the IBM Global Data Synchronization for WebSphere Product Center solution.

Prior to installing IBM Global Data Synchronization for WebSphere Product Center application, ensure that the WebSphere Product Center version 5.1.1.1 is installed on your system. Download WPC binaries (currently for 5.1.1.1 with all patches) and put them in the source directory for the user. For information about installing WebSphere Product Center version 5.1.0.3, refer *WebSphere Product Center 5.1.1.1 Installation Guide*.

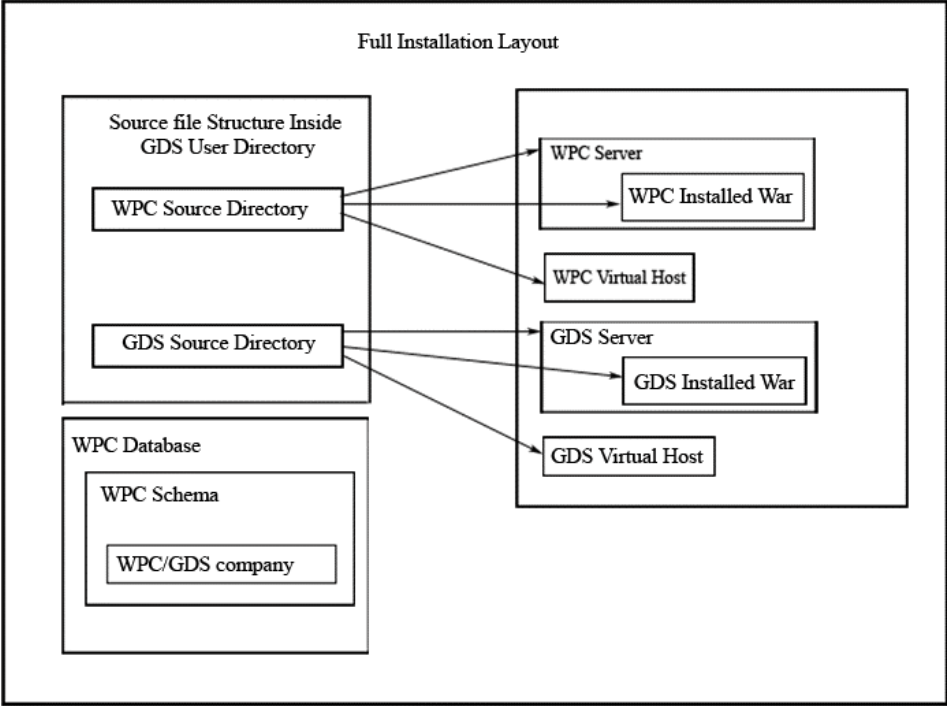
The pre-requisites are:

1. WebSphere Product Center 5.1.1.1 Patch must be applied with the necessary schema updates as required.
2. Websphere Product Center should be installed and configured. WPC and GDS both require a server, a virtual host, and an installed war file. Neither of these components are shared nor can the WPC and GDS directory be shared.
3. Company should be created other than IBM. For example, Acme company. GDS and WPC will be using the same schema and company name.

The following diagram gives an overview of the installation layout. There are two source file directories; one for WebSphere Product Center files, and the other for IBM Global Data synchronization for WebSphere Product Center files.

There are two separate application servers created for each of the applications on which the respective war files are installed. Similarly there are two virtual hosts created.

The database is shared by both the applications. Both the applications use the same company.



*GDS – WPC intallation layout*

Note: WebSphere Business Integration Connect(WBIC) and IBM Global Data Synchronization for WebSphere Product Center should each be deployed in operating environments consistent with the technology platforms supported by the individual products. There is no technology platform dependency between these two products. For more information on installation and configuration for WBIC, please refer to the WBIC documentation.





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## Ch 2 Installation

This chapter provides the installation procedure to install the IBM Global Data Synchronization for WebSphere Product Center solution. Before installing the IBM Global Data Synchronization for WebSphere Product Center, ensure that WebSphere Product Center is not running.

The installation process is described primarily for AIX operating system, DB2 database and WebSphere Application Server. The instructions hold good for all installation on currently supported platforms, database and application servers. Depending on which combination of Operating system, Database and Application Server, specific changes are mentioned as a note.

Topics:

- [Installation Procedure](#)
- [Post Installation Tasks](#)

### ***Installation procedure***

Note: If you are configuring a fix, skip this section and directly go to [Post Installation tasks](#) section

The IBM Global Data Synchronization for WebSphere Product Center solution can be installed in two ways:

- Using Command Line
- Using Installer

### **Using Command Line**

WebSphere Product Center can be installed from the command line. To install silently:

```
./setupAIX.bin -silent -P installLocation=<value> <PRODUCT_SET_FLAG>
```

where <PRODUCT\_SET\_FLAG> is as follows:

for AIX/WAS/DB2:	-W adapterFeatures_aix.selectedFeature=0
for AIX/WAS/Oracle:	-W adapterFeatures_aix.selectedFeature=1
for Linux/WAS/DB2:	-W adapterFeatures_linux.selectedFeature=0
for Linux/WAS/Oracle:	-W adapterFeatures_linux.selectedFeature=1
for Linux/Weblogic/Oracle:	-W adapterFeatures_linux.selectedFeature=2
for Solaris/Weblogic/Oracle:	-W adapterFeatures_solaris.selectedFeature=0
for HP/Weblogic/Oracle:	-W adapterFeatures_hp.selectedFeature=0

The following example will install the first AIX code distribution (WAS/DB2) of GDS in directory /opt/IBM/WebSphereProductCenter:

```
./setupAIX.bin -silent -W adapterFeatures_aix.selectedFeature=0 -P installLocation  
=/opt/IBM/WebSphereProductCenter
```

Optionally silent install can be performed using an options file:

```
./setupAIX.bin -options <options file name> -silent
```

For the example stated above, the options file will need to contain the following lines:

```
-W adapterFeatures_aix.selectedFeature=0  
-P installLocation=<value>
```

The silent install will not prompt the user to accept the license agreement. In addition, it does not require a command-line flag that indicates acceptance of the license agreement before the product installs. This is the expected behavior of the IBM component software that performs the license agreement acceptance, and we are required to embed it within the installer.

Note: If the installation is being done on a Linux box, then use setupLinux.bin as the installer file.

If the installation is being done on HP UX, then use setupHP.bin as the installer file.

If the installation is being done on a Solaris box, then use setupsSolaris.bin as the installer file.

Note: Sometimes the long name of the default directory path might cause some discrepancies during installing war. Hence to be on the safer side rename the \$TOP directory to something shorter like "gds\_demand" or "gds\_supply".

## Using Installer

Note: This section is applicable only for main releases. In case you are using a fix pack, untar the files ma<incomplete>

The Installer is used to unzip the files to the required directory.

To install the IBM Global Data Synchronization for WebSphere Product Center solution using the installer:

1. Untar the .tar file and run the setupAix.bin executable available in GDS\_Demand\_AIX directory. The *Splash* window is displayed for a few seconds and then the *Welcome* window is displayed. This provides a basic introduction to the installation process. The product name, version, vendor name, and the Website information are also provided.

Note: If the installation is being done on a Linux box, then use setupLinux.bin as the installer file.

If the installation is being done on HP UX box, then use setupHP.bin as the installer file.

If the installation is being done on Solaris box, then use setupSolaris.bin as the installer file

2. At the "Welcome" screen click **Next**.

3. At the IBM software license acceptance screen, click "I accept the terms in the license agreement" and then click **Next**.
4. Select the application server and database combination from the available list of combinations and click **Next**.
5. At the product directory screen, perform one of the following tasks:
  - a. Type the full path of the directory into which you want to install WebSphere Product Center in the Directory Name field and click **Next**.
  - b. Click Browse to select a directory and click **Next**.
  - c. Accept the default directory and click **Next**.
6. The summary screen lists the features that will be installed, the specified product directory, and the amount of disk space required.
7. Click **Next**.
8. After the installer finishes successfully, click **Finish**. This completes the installation process.

### Log Files

The installer log file is `installLogGDS.txt`. The installed and uninstalled components are logged in this file. The location of the file is <install location> directory.

---

## Post Installation Tasks

This section provides the post installation tasks for WebSphere Product Center 5.1.1.1 and IBM Global Data Synchronization for WebSphere Product Center.

### Post Installation Tasks for WebSphere Product Center 5.1.1.1

The following configuration changes should be made in WebSphere Product Center 5.1.1.1 instance after installing IBM Global Data Synchronization for WebSphere Product Center:

1. Copy `gds.properties` located in `$TOP/etc/default/` directory in the IBM Global Data Synchronization for WebSphere Product Center instance to `WPC_$(TOP)/etc/default/` directory in the WebSphere Product Center 5.1.1.1 instance.

Give a link to `gds.properties` in IBM Global Data Synchronization for WebSphere Product Center instance. It is preferable to give a soft link as this reduces the dependency to maintain two separate files.

Example on AIX:

```
ln -s /usr/qa/gds/gds_demand/etc/default/gds.properties gds.properties
```

Give a link to `gdsSupplyTradeItemFunctions.properties` in IBM Global Data Synchronization for WebSphere Product Center instance for Supply Side

Give a link to `gdsDemandTradeItemFunctions.properties` in IBM Global Data Synchronization for WebSphere Product Center instance for Demand Side

Or

Give a link to `gdsTradeItemFunctions.properties` in IBM Global Data Synchronization for WebSphere Product Center instance.

Example on AIX:

```
ln -s /usr/qa/gds/gds_demand/etc/default/ gdsTradeItemFunctions.properties  
gdsTradeItemFunctions.properties
```

2. Update the path of the following .jar in the `ccd_rc` file of WebSphere Product Center 5.1.1.1 located in `$TOP/setup` directory.files and add the .jar files to the `$TOP` directory

For supply side intallation update the path of the following .jar files

- `cgd_svr.jar`

For demand side intallation update the path of the following .jar files

- `cgd_svr.jar`
- `com.ibm.mqbind.jar`
- `connector.jar`
- `fscontext.jar`
- `jms.jar`
- `jndi.jar`
- `providerutil.jar`

Example on AIX:

```
AddJar /usr/qa/gds/gds_demand/jars/cgd_svr.jar
```

```
AddJar /usr/qa/gds/gds_demand/jars/com.ibm.mqbind.jar
```

3. Also, manually update this path in CLASSPATH of the application server created for WebSphere Product Center 5.1.1.1 from Websphere Application Server console. Restart WebSphere Product Center 5.1.1.1.

**Note:** Refer Appendix D for instructions to update CLASSPATH of the WebSphere Application Server.

4. Create a softlink for `.bindings` file located in `$TOP/etc/default/` directory in the IBM Global Data synchronization for WebSphere Product Center instance to `WPC $TOP/etc/default/` directory in the WebSphere Product Center 5.1.1.1 instance.

**Note:** Modify the `.bindings` file according to the requirement for external WBIC connection

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## Post Installation Tasks for GDS

The post installation tasks that are required to be done once IBM Global Data Synchronization for WebSphere Product Center solution is installed are:

1. In the `.bashrc` file of the IBM Global Data Synchronization for WebSphere Product Center solution, make the following changes:
  - a. Point `$TOP` to the GDS directory.

**Note:** In order to differentiate between the WPC `$Top` and GDS `$TOP` it is preferable to have a different name referring to GDS`$TOP` directory. For example: `$GDS_TOP`.

- b. Add a parameter `export WPC_INSTALL_DIR=<Directory where WPC is installed>`

Example on AIX:

```
export WPC_INSTALL_DIR=/usr/gds/wpc_5002_07_websphere5_db2_unix
```

- c. Add a parameter `WPC_JAR_DIR=<Directory where WPC jars are located>`

Example on AIX:

```
export WPC_JAR_DIR=/usr/gds/wpc_5002_07_websphere5_db2_unix/jars
```

-Or-

```
export WPC_JAR_DIR=$WPC_INSTALL_DIR/jars
```

2. Modify the `init_cgd_vars.sh` file located in `$TOP/setup` directory.

If the **installation is on WebSphere Application Server** set the path for the parameters `JDK_HOME`, `WAS_HOME`, `WAS_NODENAME`, `WAS_APPSERVERNAME`, and `WAS_VHOST`.

Example on AIX:

```
export JDK_HOME=/usr/WebSphere/AppServer/java
```

```
export WAS_HOME=/usr/WebSphere/AppServer
```

```
export WAS_NODENAME=localhost
```

```
export WAS_APPSERVERNAME=gds_reg
```

```
export WAS_VHOST=gds_reg
```

**Note:** Ensure that **the same values are not specified** for `WAS_APPSERVERNAME` and `WAS_VHOST` as given while installing WebSphere Product Center. Specify different values for `WAS_APPSERVERNAME` and `WAS_VHOST` for the IBM Global Data Synchronization for WebSphere Product Center instance.

If the **installation is on BEA WebLogic**, set the path for the following

Modify the `init_cgd_vars.sh` file located in `$TOP/setup` directory for the parameters `WL_DOMAIN`, `WL_HOME`, `JDK_HOME`, `WL_SERVER`, and `WL_USER`, `WL_PASSWORD`.

Example on AIX:

```
export RMIREGISTRY=($JAVA_HOME/bin)
export JDK_HOME=/root/bea/jrockit70sp5_131_10
export WL_HOME=/root/bea/weblogic700
export CCD_WL_DOMAIN_DIR=/root/bea/user_projects/gdsdmdomain
export CCD_WL_DOMAIN=gdsdmdomain
export CCD_WL_SERVER=gdsserver1
export CCD_WL_PW=gdsuser1
export CCD_WL_USER=gdsuser
```

Note: If the installation is being done for HP UX then in addition to the above variables set the Locale to `en_US.iso88591`. For example, `export LANG=en_US.iso88591`

Note: Comment the line `export APPSVR_MEMORY_FLAG='-Xmx1024m -Xms256m -XX:MaxPermSize=128m'`.

3. Modify the `common.properties` file located in `$TOP/etc/default` directory for the db connection details, `rmi_port`, and `app_svr` port.

Note: Ensure that the **same values are specified** for db connection and `rmi_port` as given in WebSphere Product Center intallation guide. Since WebSphere Product Center and IBM Global Data Synchronization for WebSphere Product Center use different application servers, specify different value for `app_svr` port for the GDS instance. **Do not maintain soft link for common.properties file.**

4. Modify the `gds.properties` file located at `$TOP/etc/default` directory for the `company_code` and `gds_app_type` and `activeDataPool` parameters. The value for `company_code` should be the company name as created in Installation Pre-requisites, Step 3.

Example on AIX,

For demand

```
company_code=<Name of company>
gds_app_type=Demand
activeDataPool=UCCNet
```

For supply:

```
company_code=<Name of company>
gds_app_type=Supply
activeDatapool=Transora
```

Note: Ensure that the `gds.properties` in `etc/default` directory of the IBM Global Data Synchronization for WebSphere Product Center instance and in the WebSphere Product Center instance should have the same changes. Any changes done to `gds.properties` will require both Websphere Product Center and GDS application to be restarted.

5. **Batch Processing for supply component:** The batch processing utility allows you to set a limit to the number of messages that can be sent in one XML message. To configure batch processing limit, in `gds.properties` file, set the value of `Batch_Limit`.

For example: `Batch_Limit=2` sets the limit to 2 messages per XML.

6. Run the `test_db.sh` script located in the `$TOP/bin` directory to check for database connection. It should be successful.

For example,

```
bash-2.05b# ./test_db.sh
```

The database connection details are displayed.

7. Configure the Application Server.

To **configure WebSphere Application Server**, run the scripts `create_vhost.sh`, `create_appsvr.sh`, and `install_war.sh` located in the `$TOP/bin/websphere` directory.

Note: If you are running Node Manager for WebSphere Application Server, create the `vhost` manually from WAS Admin Console and specify the port on which the IBM Global Data Synchronization for WebSphere Product Center solution will run.

To **configure BEA WebLogic** as the Application Server follow the steps listed in the section

- Set default home directories
- Create a new domain with the `$WL_HOME/common/bin/dmwiz.sh` wizard
- Update the `config.xml` file
- Copy or link the WebLogic domain applications directory

#### Set default home directories

The default home directories are set in step 2 under modifying `init_cgd_vars.sh`.

For the purpose of this document, the WebLogic setup instructions in this section are configured for the following:

- Domain name 'gdsdmddomain'
- Listening on port '7506'
- Domain files contained in the directory `'/root/bean_projects/gdsdmddomain'`
- Servername set to 'gdserver1'
- WebLogic username 'gdsuser'
- WebLogic password 'gdsuser1'

### Create a new WebLogic domain

To create a new WebLogic domain, use the dmwiz.sh wizard located in the following directory:

```
$WL_HOME/common/bin/dmwiz.sh
```

- a. **Run** \$WL\_HOME/common/bin/dmwiz.sh
- b. **Choose Domain Type** (3) WLS Domain
- c. **Choose Server Type** (1) Single Server (Standalone Server)
- d. **Choose Domain Name** (1) Modify current selection
- e. **Configure Single Server**
- f. **Modify Server Name** gdsserver1
- g. **Modify Server Listen Port** 7506
- h. **Choose Location to Create Domain > Modify current selection**  
/root/bea/user\_projects
- i. **Enter User Name** gdsuser
- j. **Enter Password** gdsuser1
- k. **Enter Verify Password** gdsuser1
- l. Press Enter to create the domain and follow the prompts to exit the wizard.

At the completion of the dmwiz wizard, the following message is displayed: **Domain Configuration Wizard has successfully created**

**"gdsdmddomain"**

Now that the WebLogic domain has been created in  
"/root/bea/user\_projects/gdsdmddomain ", it can be configured by editing"  
/root/bea/user\_projects/gdsdmddomain /config.xml"

### Change DefaultWebApp

Change the DefaultWebApp in the WebServer field from "DefaultWebApp" to  
"demand"

Note: Change it to supply if you are installing the supply component.

### WebLogic Domain applications directory

Copy the WebLogic Domain applications directory

Copy (\$TOP/etc/default/weblogic700/config/gdsdmddomain/applications/directory)  
into the new domain directory.

8. Run the script ./test\_java\_db.sh in \$TOP/bin. After that run the script  
create\_gds\_demand\_schema.sh ( for demand) or create\_gds\_supply\_schema.sh ( for  
supply) located in the \$TOP/src/db/schema/create directory. This loads the data  
model for IBM Global Data Synchronization for WebSphere Product Center.

For example,



```
create_gds_demand_schema.sh --company_code=<Name of a company> (for demand side installation)
```

```
create_gds_supply_schema.sh --company_code=<Name of a company> (for supply side installation)
```

This value for `company_code` should be same as given in Step 4.

**Note:** Before loading the data model, ensure that WebSphere Product Center is not running. Once the data model is loaded, restart WebSphere Product Center.

9. Run the `start_appsvr.sh` script located in the `$TOP/bin/go/start` directory to start the IBM Global Data Synchronization for WebSphere Product Center application. Ensure that WPC instance is running.
10. Create the roles in Websphere Product center, depending on your business requirement. To create roles refer to the section
11. Create users and assign the roles to the particular users.
12. Enable these users to access the GDS interface refer to section
13. Create Selections.
14. Create Catalog Access Privileges. Refer section ?

**Note:** For steps 10, 11, 12, 13 and 14 refer to Chapter 3 [Security Configuration](#).

**Note:** Restart Websphere Product Center after making the above changes

15. Access the IBM Global Data Synchronization for WebSphere Product Center application with the `appsvr_port` number as specified in the `common.properties` file. For example, <http://9.182.74.226:9706/Login.do>.

**Note:** If you stop the IBM Global Data Synchronization for WebSphere Product Center solution, it may stop the rmi service of Websphere Product Center. Therefore, ensure that all services are running correctly for WebSphere Product Center.

---

## Locale/Language Specific Configurations

To configure the language specific attributes, follow the steps explained in Configure Language Specific Attributes section in Chapter 3 – Configuration. After this, create a folder for the locale and copy the files within `en_US` folder to the newly created folder. For example, if the locale is French, create a folder `fr_FR` and then copy the files from `en_US` to `fr_FR`.

## Configure DataPool Catalog for supply side

The following table provides the configurations that need to be done in DataPoolCatalog in WebSphere Product Center.

Key	Value	Description
00000778955540000077895554	145	Do not change this value.
MessageID	122	This is a unique ID sequence. This has to be reset to 0 for the first time and then onwards increases by one for each message. This will be prepended with a unique date-time combination.
CorrelationIDHeader	226	This is the same as MessageID.
PrincipalHeader	Noname	This is the user ID for Transora.
7981315112271.8380160030003	105	This is the combination of Trading Partner GLN and the exchange GLN. These two are separated by a ".". The value is the conversation ID sequence.
ExchangeGLN	8380160030003	GLN of the respective exchange, this needs to be updated as per the target exchange GLN value
ExternalPublicationID	16	This is the unique ID sequence used for each publication message.

## Configure DataPool Catalog for demand side

The following table provides the configurations that need to be done in DataPoolCatalog in WebSphere Product Center.

Key	Value	Description
MessageID	0	This is a unique ID sequence. This has to be reset to 0 or any value that the user wants as the initial value. Consequently the value increases by one for each message. This will be prepended with a unique date-time combination.
UserID	xxxxx	This is the user – id to access the UCCnet data pool services
UserPWD	xxxxx	This is the password to access the UCCnet data pool services
uniqueCreatorIdentification	0	The unique creator identifier is a

Key	Value	Description
		<p>unique id that will identify each block in the same XML message that is sent to UCCnet data pool services. For example, while adding multiple trade items, each block will have a different unique creator identification id.</p> <p>This value has to be reset to 0 or any value that the user wants as the initial value, for the first time and consequently the value increases by one for each block in the same message.</p>
ExchangeGLN	8380160030003	GLN of the respective exchange, this needs to be updated as per the target exchange GLN value.
SelfGLN	xxxxxx	This is the GLN of the trading partner who is using this application.
DefaultLocaleString	en_US	This is the default locale.

---

## Ch 3 Security Configurations

This chapter provides information about security and user management in IBM Global Data Synchronization for WebSphere Product Center solution. WebSphere Product Center 5.1.1.1 is used for setting the security and the roles for the various users.

Note: For a sample implementation of security refer to *Appendix A* for Supply component and *Appendix B* for Demand component.

Topics:

- [Security](#)
- [Security Steps](#)

### Security

Security requirements for IBM Global Data Synchronization for WebSphere Product Center are divided into two parts. They are:

- Functional Security
- Data Security

### Functional Security

Functional Security controls the actions that can be performed by the user on the System. Depending on the privileges granted, the user will be able to perform a limited set of actions.

### Data Security

Data Security is implemented using the Selections feature in WebSphere Product Center. Security is provided for the Trade Items, Trade Item Links, Trading Partners, Target Markets and Transactions.

### Security Steps

The steps to set the security are:

1. Log on to WebSphere Product Center
2. Create a Role
3. Create an Access Control Group (ACG)
4. Create Selections
5. Provide Data Access Privileges
6. Create User

## Create a Role

The role is one of the central concepts of the IBM Global Data Synchronization for WebSphere Product Center solution. A role is a collection of tasks, services, and information for a user or a group of users. The role defines which service and information the user should be able to access and the activities that can be performed. The role also defines the visualization of the contents and the navigation structure within the solution.

Roles are stored in the WebSphere Product Center database.

Alternatively, you can create new roles. To do this

1. Log on to WebSphere Product Center.
2. Go to Data Model Manager > Security > Role Console.
3. Click **New**.
4. Type the name for the role.
5. From the drop-down menu select default ACG and provide the access privileges for this role.
6. Save the settings.

The roles and Access Control Groups (ACG) that are set in WebSphere Product Center are applied in IBM Global Data Synchronization for WebSphere Product Center.

## Create an Access Control Group (ACG)

The Access Control Group is used to control the access levels for each role. Permissions are set to define the type of access granted to the role and the associated entity. When you set up permissions, you specify the level of access for the role and the entity. To specify access rights, you identify them in access control groups.

The ability to control a user's access to view, edit, and delete entities can be restricted based on the access privilege definition of the role that is assigned to the user. To restrict access to an entity, the role defined with restricted access privileges must be associated with the ACG that the entity is using.

Therefore, a single selection can be made available to a specific ACG and all roles that are part of the ACG will have access to that entity. A user is allowed access to an entity once they are assigned to the role.

These are sample types of Access Control Groups:

- [UDEX CAT SPECIFIC] ACG – This is the UDEX category specific access control group. The available roles can be:
- [UDEX CAT SPECIFIC] Global Brand Manager
- [UDEX CAT SPECIFIC] Global Product Executive
- [UDEX CAT - TM SPECIFIC] Brand Manager

- [[UDEX CAT - TM - ATTR GROUP SPECIFIC] Product Executive
- [[UDEX CAT - TM - ATTR GROUP SPECIFIC] User
- [UDEX CAT - TM SPECIFIC] Variant Publisher
- [TM Specific] ACG – This is the target market specific access control group. The available roles can be:
  - [UDEX CAT - TM SPECIFIC] Brand Manager
  - [[UDEX CAT - TM - ATTR GROUP SPECIFIC] Product Executive
  - [[UDEX CAT - TM - ATTR GROUP SPECIFIC] User
  - [UDEX CAT - TM SPECIFIC] Variant Publisher
  - [TM Specific] Marketing Manager

You can create new ACGs. To create new ACGs:

1. Log on to WebSphere Product Center.
2. Go to Data Model Manager > Security > Access Control Groups > Access Control Group Console.
3. Click New.
4. Type the name for the ACG. From the Role drop-down menu, select the role that is created in step2.
5. Provide access privileges for the default ACG. Select the checkboxes for Catalog list, Hierarchy list, Selection list, and Selection Measures list.
6. Save the settings.

## Create Selections

The created ACGs are linked to Selections that are created through WebSphere Product Center. These Selections are used to achieve Category and Target Market based security.

When a Selection is created, it is associated with an ACG, a catalog, and a hierarchy. So, for achieving category-level security, a Selection is created for [UDEX CAT SPECIFIC] ACG, Global\_Catalog and UDEX\_Hierarchy\_UCCNet hierarchy. Similarly, for Target Market based security, Selection is created for [TM Specific] ACG, Global\_Local\_Catalog and Target\_Market hierarchy.

Once the Selection is created, the required Categories are selected. Once this is done, the users associated with the ACGs will have visibility into only those categories/ target markets that are selected in the Selection.

**Note:** All Categories (Internal and UDEX) that are accessible through selections must be enabled. If that is not done, the pagination will not be proper, that is the result size may not correspond to the defined page size.

The following selections need to be done:

1. Global Catalog Selection
2. Global Local Catalog Selection
3. Trading Partner Catalog Selection
4. Information Provider Hierarchy selection
5. Internal Hierarchy Selection
6. UCCNet Message Archive Catalog Selection

### **Selection configurations common to both Demand and Supply**

#### **Global Catalog Selection**

1. Go to Product Manager > Selections > Selection Console. Click New Basic Selection.
2. Select Global Catalog from the drop-down.
3. Select the version.
4. Select the Access Control Group.
5. Select the hierarchy as UDEX\_Hierarchy\_UCCNet. All the categories under Global Catalog Hierarchy are displayed.
6. Type a name for the selection and then select the categories.
7. Click Save to save the selection.

#### **Global Local Catalog Selection**

1. Go to Product Manager > Selections > Selection Console. Click New Basic Selection.
2. Select the version.
3. Select the Access Control Group.
4. Select the hierarchy as Target\_Market\_Hierarchy. All the target markets under Global Local Catalog Hierarchy are displayed.
5. Type a name for the selection and then select the categories.
6. Click Save to save the selection.

#### **Trading Partner Catalog Selection**

1. Go to Product Manager > Selections > Selection Console. Click New Basic Selection.
2. Select Trading Partner Catalog from the drop-down. Select the version.
3. Select the Access Control Group.
4. Select the hierarchy as Target\_Market\_Hierarchy. All the target markets under Target\_Market\_Hierarchy are displayed.

5. Type a name for the selection and then select the target markets.
6. Click Save to save the selection.

#### **Information Provider Hierarchy selection**

1. Go to Product Manager > Selections > Selection Console. Click New Basic Selection.
2. Select Trading Partner Catalog from the drop-down. Select the version.
3. Select the Access Control Group.
4. Select the hierarchy as IP\_Hierarchy. All the categories under IP\_Hierarchy are displayed.
5. Select the default hierarchy as '00000000000000'.
6. Click Save to save the selection.

#### **Internal Hierarchy Selection**

1. Go to Product Manager > Selections > Selection Console. Click New Basic Selection.
2. Select Global Catalog from the drop-down.
3. Select the version.
4. Select the Access Control Group.
5. Select the hierarchy as Internal Hierarchy. All the categories under Global Catalog Hierarchy are displayed.
6. Type a name for the selection and then select the categories.
7. Click Save to save the selection.

#### **Demand-side specific selections**

In addition to the above selection configurations, for demand side the following selection configurations need to be done in WebSphere Product Center 5.1.1.1

#### **UCCNet Message Archive Catalog Selection**

1. Go to Product Manager > Selections > Selection Console. Click New Basic Selection.
2. Select UCCNet Message Archive Catalog from the drop-down.
3. Select the version.
4. Select the Access Control Group.
5. Select the hierarchy as UCCNetMessageArchiveHierarchy. All the categories under UCCNet Message Archive Catalog Hierarchy are displayed.
6. Type a name for the selection and then select all the categories.
7. Click Save to save the selection.



## **Provide Data Access Privileges**

Go to Security > Access Privileges > Catalog Access Console. Provide access privileges to the attribute groups for the Global Catalog and the Global Local Catalog. You can either make the attribute groups viewable or editable.

## **Create User**

For information about creating the user, refer the section [Configure Users and Roles](#) in *Chapter 4 – Websphere Product Center Configuration*.

---

## Ch 4 WebSphere Product Center Configuration

This chapter details the configurations that you can make for the IBM Global Data Synchronization for WebSphere Product Center Demand solution, according to your requirement. These configurations need to be made in WebSphere Product Center version 5.1.0.3. The settings reflect in the IBM Global Data Synchronization for WebSphere Product Center solution.

Note: You need to have working knowledge of WebSphere Product Center version 5.1.0.3

Topics:

Configurations common for both demand and supply component

- [Modify or Move the Names of Attributes](#)
- [Modify or Move the Names of Attribute Groups](#)
- [Configure Target Markets](#)
- [Configure Language Specific Attributes](#)
- [Configure Trade Item Status](#)
- [Configure Enrichment Completion Criteria](#)
- [Configure Item Data Compliance Check](#)
- [Configure Approval Process](#)
- [Configure Classification Scheme](#)
- [Configure Users and Roles](#)
- [Configure Workflows](#)
- [Mapping Between Internal Category and the UDEX Category](#)

Other configurations while installing the supply side component

- [Configuring Interoperability Attributes](#)

For configuring, you need to log on to WebSphere Product Center version 5.1.0.3.






### ***Modify or Move the Names of Attributes***

You can change the names of global and global-local attributes that is displayed in the IBM Global Data Synchronization for WebSphere Product Center application.

### **Modify Global Attributes**

The Global Attributes of the data pool is mapped to the Global Catalog in WebSphere Product Center.






To change the names of Global Attributes:

1. Go to Product Manager>Catalogs>Catalog Console. You can also modify the spec from the Data Model Manager> Specs/Mappings>Specs Console.
2. Click Global\_Attributes\_Spec next to Global\_Catalog.
3. Click **Edit** to edit the Global\_Attribute\_Spec.
4. Click  next to Global\_Attributes\_Spec to add a new attribute.
5. To modify the names of the attributes, click on the attribute name.
6. To move an attribute, click on the  to move the attribute up or  to move the attribute down.
7. To add attributes, click  next to the attribute name for which you want to add a attribute.
8. To delete an attribute, click  for the attribute that you want to delete.
9. Click **Save** to save your changes.

## Modify Global-Local Attributes

The Global-local Attributes of the data pool is mapped to the Global-Local Catalog in WebSphere Product Center.

To change the names of Global-Local Attributes:

1. Go to Product Manager>Catalogs>Catalog Console. You can also modify the spec from the Data Model Manager> Specs/Mappings>Specs Console.
2. Click Global\_Local\_Attributes\_Spec next to Global\_Local\_Catalog.
3. Click **Edit** to edit the Global\_Local\_Attribute\_Spec.
4. Click  next to Global\_Local\_Attributes\_Spec to add a new attribute.
5. To modify the names of the attributes, click on the attribute name.
6. To move an attribute, click on the  to move the attribute up or  to move the attribute down.
7. To add attributes, click  next to the attribute name for which you want to add a attribute.
8. To delete an attribute, click  for the attribute that you want to delete.

## Modify or Move the Names of Attribute Groups

Multiple attributes can be arranged into a named group. Attribute groups are defined and named in one place so that they can be reused and easily updated. For example, in the IBM Global Data Synchronization for WebSphere Product Center solution, all attributes related to Logistics are grouped under the Logistics tab. The names of these groups can be modified.

These changes are done in WebSphere Product Center and they reflect in the IBM Global Data Synchronization for WebSphere Product Center solution.


To change the names of Attributes Groups:

1. Go to Data Model Manager>Attribute Collections>Attribute Collection Console.
2. Click on the attribute group that you want to modify. The list of specs associated with the group is displayed.
3. Under **Specs in Collection**, double-click on the spec. The list of attributes for that spec is displayed under **Attributes for Collection in Spec**.
4. To delete the attribute(s), select those attributes that you want to delete, and click **Remove selected attributes**.
5. To add attributes, click **Search**. The list of attributes is displayed.
6. Select the attributes that you want to add and click **Selected**. The selected attributes are added to the attribute collection.
7. Click **Save** to commit your changes.

### **Configure Target Markets**

The list of target markets that are accessible in the IBM Global Data Synchronization for WebSphere Product Center solution is preset using WebSphere Product Center.

To setup the Target Markets:

1. Go to Product Manager>Lookup Tables> Lookup Table Console.
2. Select Target\_Market\_Lookup and click .
3. You can add new target markets, edit or remove existing target markets.
4. You can also enable or disable target markets.
5. Save your settings.

All these changes should reflect in the IBM Global Data Synchronization for WebSphere Product Center application.

### **Configure Language Specific Attributes**

WebSphere Product Center provides the ability to localize attribute values for any catalog attribute or hierarchy node. Locales are created based on language/country pairs, which provide variances across countries (that is, U.S. English, British English). You can localize a single attribute value or display name.

To localize the Language Specific Attributes:



1. Go to Data Model Manager>Security> Company Attributes.
2. Select the language/country pairs supported.

3. You can also remove the supported languages and countries.
4. Click **Save** to save the spec.
5. Go to the spec which contains Global and Global Local attributes, and enable the **Localized** option. The set of locales are displayed. Select the locale and click **Add**.
6. Click on the attribute to localize the attribute's display name.
7. Enable the Localized option under Attribute Collection Associations. The attribute is localized for all the locales.
8. Save your settings.
9. To view these localized attributes data from the UI perspective go to Home->My Settings and Add Locales from the Available Locales to Selected Locales and save the settings.

### **Configure Trade Item Status**

A trade item goes through a number of statuses in the IBM Global Data Synchronization for WebSphere Product Center application. If the status display name is changed in WebSphere Product Center, the same will be reflected in IBM Global Data Synchronization for WebSphere Product Center UI.

To change the display name for the Trade Item Status:

1. Go to Product Manager>Lookup Tables> Lookup Table Console.
2. For Item\_Status\_Lookup and click .
3. Click on the status name or the **Edit** icon  to rename the status.
4. Click **Save** to commit the changes.

### **Configure Enrichment Completion Criteria**

To configure the Enrichment Completion Criteria:

1. Go to Data Model Manager>Attribute Collections>Attribute Collection Console.
2. Click **Required**.
3. Under **Specs in Collection**, double-click on the spec. The list of attributes for that spec is displayed under **Attributes for Collection in Spec**.
4. To delete the attribute(s), select those attributes that you want to delete, and click **Remove selected attributes**.
5. To add attributes, click **Search**. The list of attributes is displayed.
6. Select the attributes that you want to add and click **Selected**. The selected attributes are added to the attribute collection.

7. Click **Save** to commit your changes.

### **Configure Approval Process**

The approval process for trade items, trade item links, and trading partners can be automated. This is done by setting the required approval process to ON or OFF in the `gds.properties` file.

To set the Approval Process:

1. At the command prompt, type `$TOP/etc/default/gds.properties`.
2. Change the settings to ON or OFF.

### **Configure Classification Scheme**

Classification scheme is a hierarchical structure of product categories. Currently, along with an internal classification scheme, IBM Global Data Synchronization for WebSphere Product Center supports the UDEX classification scheme and GPC scheme.

The configuration can be done through the hierarchy mapping console or selecting the hierarchy from the left navigation pane.

To configure the Classification Scheme:

3. Go to `$TOP/etc/default/gds.properties` file using any editor.
4. For configuring the classification scheme, set the values `PRIMARY_CLSSIFICATION_SCHEME` to any one of the following three values
  - `Internal_hierarchy`
  - `Udex_Hieararchy_UCCNET`
  - `GPC_HIERARCHY`.
5. For configuring the approval processes, set the respective process to ON or OFF.
6. Restart the server.

By default the primary classification scheme is Internal Hierarchy classification.

To associate an attribute collection with the classification scheme:

1. Go to `Product Manager > Hierarchy console`.
2. Select the classification scheme that you want to associate attribute collection to. `Internal_hierarchy`.
3. In the right navigation, select the user defined core attribute collection. For example if you choose internal hierarchy the attribute collection is internal hierarchy attributes.

To enable the categories in a classification scheme:

1. From the left navigation pane, select the hierarchy.
2. Select a category at the leaf node.



In the above example alcohol is the leaf node under internal category.

3. In the right pane displayed for that category, select the check box for Enabled.

## Configure Users and Roles

The roles are pre-seeded in the solution. The users need to be created. For a sample scenario of configuring roles, refer the *Appendix-Sample Scenarios*.

To create a new user:

1. In the left navigation pane, from the drop-down menu, select Default Organization Hierarchy. The hierarchy is displayed under the drop-down menu.
2. Click on the plus sign to expand Default Organization Hierarchy.
3. Point the cursor on Default Organization. Right-click and select **Add User**.
4. Fill in the fields under User Profile.
5. Specify the password for this user.
6. From the list of roles that are displayed, select a role for this user.
7. Click **Save**.
8. Refresh the left navigation pane.
9. Click on view users. The *User Console* displays the newly created user.
10. Enable the new user.

## Configure Workflows

During solution setup, you have the option to turn on/off the global attributes enrichment process, variant attribute enrichment process, and the approval process. The following list of approval process can be turned on/off. If any of the approval process is turned OFF, then it is automated within the solution.

- New Item Approval
- Modify Item Approval
- Delete Item Approval
- New Link Approval

- Delete Link Approval
- Modify Link Approval
- New Trading Partner Approval
- Modify Trading Partner Approval
- Delete Trading Partner Approval

To configure the workflows:

11. Go to `$TOP/etc/default/gds.properties` file using any editor.
12. For configuring the global enrichment, set `global_enrichment` to true or false. Similarly for switching the variant enrichment, set `local_enrichment` to true or false.
13. For configuring the approval processes, set the respective process to ON or OFF.
14. Restart the server.

Note: This configuration can be done when installing the solution using the Install Shield.

### **Configure Information Provider**

The list of information providers that are accessible in the IBM Global Data Synchronization for WebSphere Product Center solution is preset using WebSphere Product Center.

To configure the Information Providers:


1. In the left navigation pane, from the drop-down menu, select `Trading_Partner_Catalog`. The hierarchy is displayed under the drop-down menu.
2. Right-click on the country and click **Add Item**. The details page for the trading partner is displayed.
3. Specify the following:
  - a. In the **Name** field, type the name for the Information Provider.
  - b. In the **GLN** field, type the Global Location Number.
  - c. In the **GLN Identifier** field, select any of the available options. Options available are Manufacturer, Exchange, Retailer, and Supplier.
  - d. In the **Country** field, type the country of the Information Provider.
  - e. Specify the status as Approved and the TP status as Active.
  - f. Select the item type as Information Provider.
4. Click **Save** to save the settings.

### **Configure Trade Item Data Compliance Check**

Once the trade item has been enriched, it should be submitted for a compliance check. The validation rules for this compliance check are setup using WebSphere Product Center.



To configure Trade Item Data Compliance Check:

1. Go to Data Model Manager>Scriptings>Scripts Console.
2. From the drop-down menu, select Distribution Script. The *Scripts Console* is displayed.
3. Click on the **Edit** icon  next to Trade Item Link Validation.
4. Edit the script and click **Save** to commit the changes.

Note: When creating selections, ensure that the Information Provider that is configured is selected. For more information, refer Create Selections in *Chapter 4 – Administration*.

### **Mapping Between Internal Category and the UDEX Category**

Internal Category is the categories maintained by the organization. UDEX-UK category is the category in the UDEX UK data pool.

To map the attributes between the Internal Category and the UDEX Category:

1. Go to Product Manager>Hierarchy Maps>Hierarchy Mapping Console.
2. You can create a new map or modify an existing map.
3. Click New to create a new map.
4. Select the Internal Category and then the UDEX category. This maps the selected internal category to the UDEX category.
5. The settings are saved automatically.

Note: Ensure that mapping to UDEX Categories are done only for the Categories accessible by a user. Also, the field "udex\_to\_internal\_hierarchy\_mapping\_without\_security\_breach" should be set to true in the `gds.properties` file. If this is not set to true, there will be a performance penalty.

### **Mapping Between Internal Category and the GPC Category**

Internal Category is the categories maintained by the organization. GPC category is the category offered by the global registry GS1. If your organization is GS1 enabled then you can map the internal category to the GPC category.

To map the attributes between the Internal Category and the UDEX Category:

1. Go to Product Manager>Hierarchy Maps>Hierarchy Mapping Console.
2. You can create a new map or modify an existing map.
3. Click New to create a new map.
4. Select the Internal Category and then the GPC category. This maps the selected internal category to the GPC category.

5. The settings are saved automatically.

Note: If no mapping is defined then the internal category is taken as the default hierarchy

### **Configure Interoperability Attributes- (only supply side)**

Categories are defined for different data pools. Currently, UDEX-UK and WWRE are supported. To configure the Interoperability Attributes, open the gds.properties file located in etc/default/ directory. Set the value for Interoperability\_UDEX\_UK to True and Interoperability\_WWRE to true. This enables you to specify the Interoperability attribute values in the IBM Global Data Synchronization for WebSphere Product Center.

Note: All the UDEX-UK interoperability attributes are not preseeded. For attributes that are not preseeded, refer Transora UDEX-UK interoperability.

To configure the Interoperability Attributes that is not preseeded:

1. In the left navigation pane, from the drop-down menu, select the data pool for which you want to configure the attributes. The list of categories for the selected data pool is displayed.
2. Click on a category. The details for the category are displayed on the right side.
3. If the specs are pre-seeded, edit the spec.
4. If there are no specs, you need to create a new spec.
5. Once the spec is created, add it to the attribute collection.

---

## Ch 5 Uninstalling GDS

This chapter provides the steps for uninstalling IBM Global Data Synchronization for WebSphere Product Center solution.

Uninstallation can be done in two ways.

- Using Command Line
- Using Installer

### Using Command Line

To uninstall the IBM Global Data Synchronization for WebSphere Product Center solution using the command line, type the following at the command prompt:

```
<GDS_installLocation>/_unist/uninstaller.bin -silent
```

### Using Installer

To uninstall the IBM Global Data Synchronization for WebSphere Product Center solution using the installer:

1. Invoke the .bin executable from outside the \_unist directory, by the following commands:

```
Export DISPLAY = <client display ip address>:0.0  
./unist/uninstallGDS.bin
```

**Note:** The uninstaller should be invoked from outside the \_unist directory. No other shells should be using the \_unist directory as their current working directory.

**Note:** If you need to move the installation of GDS onto another path, you must run the uninstaller and re-install GDS in the desired location. Do not move the application directory manually.

2. The *Splash* window is displayed for a few seconds and then the *Welcome* window is displayed. This provides the product name and version that you are uninstalling. Also displays the vendor name and the Website information.
3. Click **Next**. The *Summary Information* screen displays the directory location from which IBM Global Data Synchronization for WebSphere Product Center is uninstalled. It also provides the features that were selected to be uninstalled.
4. Click **Next**. The uninstallation process starts. Once the process is completed the *Uninstallation Complete* window is displayed.
5. Click **Finish**. This completes the uninstallation process.



---

## Appendix A – Sample Scenarios, supply side

This appendix provides information about the various Roles, Access Control Groups (ACGs), and Selections. It also provides the list of accessible features and operations that can be performed by the respective roles. Keeping the sample scenario as an example you can create various ACGs and assign roles.

### Roles

For every IBM Global Data Synchronization for WebSphere Product Center user a set of Roles can be assigned. As an example, consider the company XYZ. This company has four main departments such as Lighting, Consumer Electronics, Software, and Components. Each of these departments has a Global Brand Manager. They are:

- Lighting Global Brand Manager
- Consumer Electronics Global Brand Manager
- Software Global Brand Manager
- Components Global Brand Manager

Note: The naming convention is [UDEX CAT SPECIFIC] Global Brand Manager. That is, Lighting is the UDEX specific category.

The Global Brand Managers are responsible for creating a GTIN. Each of these Global Brand Managers has product executives. Once the Global Brand Manager creates the GTIN, a notification is sent to the product executives to enrich the global attributes. The respective product executives are:

- Lighting Global Product Executive
- Consumer Electronics Global Product Executive
- Software Global Product Executive
- Components Global Product Executive

Note: The Global Brand Manager can also enrich some or all the global attributes.

When all the product executives have completed enriching the global attributes, only then is the global enrichment process complete. A notification that the global enrichment for the trade item is complete is sent to the Global Brand Manager.

Now, if company XYZ has business relations with US, Holland, and Singapore, there will be target market specific Brand Managers for each category. They are:

- Lighting US Brand Manager
- Lighting Holland Brand Manager
- Lighting Singapore Brand Manager
- Consumer Electronics US Brand Manager

- Consumer Electronics Holland Brand Manager
- Consumer Electronics Singapore Brand Manager
- Similarly there will be target market specific Brand Managers for each category.

The Global Brand Managers will send the notification to these target market specific Brand Managers to enrich the variants. Each of the target market specific Brand Managers has Product Executives. The Product Executives enrich the variant attributes. Once the variant attributes have been enriched, a notification for variant enrichment completion is sent to the brand managers.

The various roles that are preceded in the IBM Global Data Synchronization for WebSphere Product Center Supply solution are:

- WebSphere Product Centre Administrator
- Global Data Synchronization Administrator
- [UDEX CAT SPECIFIC] Global Brand Manager
- [UDEX CAT SPECIFIC] Global Product Executive
- [UDEX CAT - TM SPECIFIC] Brand Manager
- [[UDEX CAT - TM - ATTR GROUP SPECIFIC] Product Executive
- [[UDEX CAT - TM - ATTR GROUP SPECIFIC] User
- Links Publisher
- [UDEX CAT - TM SPECIFIC] Variant Publisher
- [TM Specific] Marketing Manager

Note: These roles can be changed based on your requirements.

### WebSphere Product Centre Administrator

The WebSphere Product Centre Administrator has access to the data model. Typically, the administrator is the PSS user.

The operations that can be setup for IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• List</li> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• Modify</li> <li>• Delete</li> <li>• Explore</li> <li>• Create</li> </ul>	<ul style="list-style-type: none"> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• List</li> <li>• Modify</li> <li>• Delete</li> <li>• Explore</li> <li>• Approve</li> </ul>	<ul style="list-style-type: none"> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• List</li> <li>• Modify</li> <li>• Delete</li> <li>• Approve/Reject</li> </ul>	<ul style="list-style-type: none"> <li>• Publish Transactions</li> <li>• View Generated XML</li> <li>• Item Transactions</li> <li>• Hierarchy Transactions</li> </ul>	<ul style="list-style-type: none"> <li>• Publications</li> <li>• Initial Load</li> <li>• Item Add</li> <li>• Item Link Add</li> </ul>	<ul style="list-style-type: none"> <li>• Run Publication Reports</li> <li>• View Publication Reports</li> <li>• Run Item Reports</li> <li>• View Item</li> </ul>

IBM Global Data Synchronization for WebSphere Product Center Solution

Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>Variant</li> <li>• Delete Variant</li> <li>• Enrich Global</li> <li>• Enrich Variant</li> <li>• Approve /Reject</li> <li>• Publish New Item</li> <li>• Send Initial Load</li> <li>• Add Item</li> <li>• Synchronize Changes</li> </ul>	/Reject	<ul style="list-style-type: none"> <li>• Add Item Link</li> </ul>	<ul style="list-style-type: none"> <li>• Trading Partner Transactions</li> </ul>	<ul style="list-style-type: none"> <li>• New Item Request</li> <li>• Item Change Request</li> <li>• New Item Hierarchy Request</li> <li>• Item Hierarchy Change Request</li> <li>• New Trading Partner Request</li> <li>• Trading Partner Change Request</li> </ul>	<ul style="list-style-type: none"> <li>Reports</li> <li>• Run Trading Partner Reports</li> <li>• View Trading Partner Reports</li> </ul>

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> <li>• Edit</li> <li>Catalog Views</li> <li>• View Items</li> <li>• Add Items</li> <li>• Modify Items</li> <li>• Delete Items</li> <li>• Recategorize Items</li> <li>• Summary Items</li> <li>• Export Attributes</li> <li>• Differences</li> <li>• Rollback</li> <li>• Search</li> <li>• Delete</li> <li>• Run Preview Script</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• Edit</li> <li>Hierarchy Views</li> <li>• View Hierarchy Nodes</li> <li>• Add</li> <li>Hierarchy Nodes</li> <li>• Modify Hierarchy Node Attributes</li> <li>• Delete Hierarchy Nodes</li> <li>• Recategorize Hierarchy Nodes</li> <li>• Summary Hierarchy Nodes</li> <li>• Specmap Hierarchy Nodes</li> <li>• Attributes</li> <li>• Rollback</li> <li>• Delete</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• Edit Rule</li> <li>• Delete</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• Perform Import</li> <li>• Delete</li> </ul>	<ul style="list-style-type: none"> <li>• View Items</li> <li>• Add Items</li> <li>• Modify Items</li> <li>• Delete Items</li> <li>• Recategorize Items</li> <li>• View Hierarchy Nodes</li> <li>• Add Hierarchy Nodes</li> <li>• Modify Hierarchy Node Attributes</li> <li>• Delete Hierarchy Nodes</li> <li>• Recategorize Hierarchy Nodes</li> <li>• Specmap Hierarchy Nodes</li> </ul>	<ul style="list-style-type: none"> <li>• View Files</li> <li>• Delete Files</li> </ul>

WebSphere Product Center					
Workflow	Collaboration Area	Spec	Screen	Script	Scheduler
<ul style="list-style-type: none"> <li>• List</li> <li>• Edit</li> <li>• Delete</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• Checkout Entries</li> </ul>	<ul style="list-style-type: none"> <li>• Modify Spec</li> <li>• Modify</li> </ul>	<ul style="list-style-type: none"> <li>• View</li> </ul>	<ul style="list-style-type: none"> <li>• Create</li> <li>• Modify</li> <li>• Scripts</li> </ul>	<ul style="list-style-type: none"> <li>• View Company Jobs</li> </ul>



		Spec Map			
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### Global Data Synchronization Administrator

The IBM Global Data Synchronization for WebSphere Product Center administrator has access to all the functionalities in IBM Global Data Synchronization for WebSphere Product Center and some of the functionalities in WebSphere Product Centre such as import/export & user management. The IBM Global Data Synchronization for WebSphere Product Center administrator does not have access to the data model.

The IBM Global Data Synchronization for WebSphere Product Center Administrator has access to the following:

- Notifications
- Quick Search, Basic Search, and Advanced Search for Trade Items, Trade Item Links, and Trading Partners
- Publish New Item, Send Initial Load, Add Item, Add Link, and Synchronize Changes
- Explore Transactions
- Manage Items (Create GTIN, Create GTIN Variant (that is, target market and Information provider), View/Edit GTIN Global Attributes, View/Edit Variant Attributes, Enrich GTIN Global Attributes, Enrich Variant Attributes, Delete GTIN, and Delete GTIN Variant)
- Approve/Reject Items
- Create/View/Edit/Delete/Approve Trading Partner
- Import/Export Items, Item Links
- User Management & Security

The operations that can be setup for IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Supply Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• List</li> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• Modify</li> <li>• Delete</li> <li>• Explore</li> <li>• Create Variant</li> </ul>	<ul style="list-style-type: none"> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• List</li> <li>• Modify</li> <li>• Delete</li> <li>• Explore</li> <li>• Approve/Reject</li> </ul>	<ul style="list-style-type: none"> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• List</li> <li>• Modify</li> <li>• Delete</li> <li>• Approve/Reject</li> <li>• Add Item</li> </ul>	<ul style="list-style-type: none"> <li>• Publish Transactions</li> <li>• View Generated XML</li> <li>• Item Transactions</li> <li>• Hierarchy Transactions</li> </ul>	<ul style="list-style-type: none"> <li>• Publications</li> <li>• Initial Load</li> <li>• Item Add</li> <li>• Item Link Add</li> <li>• New Item Request</li> </ul>	<ul style="list-style-type: none"> <li>• Run Publication Reports</li> <li>• View Publication Reports</li> <li>• Run Item Reports</li> <li>• View Item Reports</li> </ul>

IBM Global Data Synchronization for WebSphere Product Center Supply Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• Delete Variant</li> <li>• Enrich Global</li> <li>• Enrich Variant</li> <li>• Approve /Reject</li> <li>• Publish New Item</li> <li>• Send Initial Load</li> <li>• Add Item</li> <li>• Synchronize Changes</li> </ul>		Link	<ul style="list-style-type: none"> <li>• Trading Partner Transactions</li> </ul>	<ul style="list-style-type: none"> <li>• Item Change Request</li> <li>• New Item Hierarchy Request</li> <li>• Item Hierarchy Change Request</li> <li>• New Trading Partner Request</li> <li>• Trading Partner Change Request</li> </ul>	Reports <ul style="list-style-type: none"> <li>• Run Trading Partner Reports</li> <li>• View Trading Partner Reports</li> </ul>

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• Perform Import</li> <li>• Delete</li> </ul>	<ul style="list-style-type: none"> <li>• View Items</li> </ul>	

WebSphere Product Center					
Workflow	Collaboration Area	Spec	Screen	Script	Scheduler
			<ul style="list-style-type: none"> <li>• View</li> </ul>	<ul style="list-style-type: none"> <li>• Create Modify Scripts</li> </ul>	<ul style="list-style-type: none"> <li>• View Company Jobs</li> </ul>

**[UDEX CAT SPECIFIC] Global Brand Manager**

The Global Brand Manager is responsible for creating new trade items (global variant). The Global Brand Manager can also edit local variant, delete an item and its local variant, and has the privilege of approving/disapproving an item. There will be one Global Brand Manager for each category.

The Global Brand Manager has access to the following:

- Notifications
- Quick Search, Basic Search, and Advanced Search for Trade Items, Trade Item Links, and Trading Partners
- Explore Transactions
- Manage Items (Create GTIN, View/Edit GTIN Global Attributes, View/Edit Variant Attributes, Delete GTIN, and Delete GTIN Variant)
- Approve/Reject Items
- View Trading Partner
- Reports

The operations that the Global Brand Manager can perform in IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution				
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications
<ul style="list-style-type: none"> <li>• List</li> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• Modify</li> <li>• Delete</li> <li>• Delete Variant</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• View</li> <li>• List</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• List</li> <li>• Modify</li> <li>• Delete</li> <li>• Approve/Reject</li> </ul>	<ul style="list-style-type: none"> <li>• Item Transactions</li> <li>• Hierarchy Transactions</li> <li>• Trading Partner Transactions</li> </ul>	<ul style="list-style-type: none"> <li>• New Item Request</li> <li>• Item Change Request</li> <li>• New Item Hierarchy Request</li> <li>• Item Hierarchy Change Request</li> </ul>

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>		<ul style="list-style-type: none"> <li>• View Items</li> </ul>	<ul style="list-style-type: none"> <li>• View Files</li> <li>• Delete Files</li> </ul>

**[UDEX CAT Specific] Global Product Executive**

The Global Product Executive can enrich GTIN global attributes and also view or edit the variant attributes.

The Global Product Executive has access to the following:

- Notifications
- Quick Search, Basic Search, and Advanced Search for Trade Items, Trade Item Links, and Trading Partners
- Manage Items (View/Edit GTIN Global Attributes, View/Edit Variant Attributes, and Enrich GTIN Global Attributes)
- View Trading Partner

The operations that the Global Product Executive can perform in IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• List</li> <li>• Edit</li> <li>• View</li> <li>• Modify</li> <li>• Explore</li> <li>• Enrich Global</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• Modify</li> <li>• Delete</li> </ul>		<ul style="list-style-type: none"> <li>• New Item Request</li> </ul>	

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>		<ul style="list-style-type: none"> <li>• View Items</li> </ul>	

**[UDEX CAT – TM Specific] Brand Manager**

The [UDEX CAT – TM Specific] Brand Manager can create, enrich, delete a variant of an item., approve, or disapprove the variant..

The Brand Manager has access to the following:

- Notifications
- Quick Search, Basic Search , and Advanced Search for Trade Items, Trade Item Links, and Trading Partners
- Explore Transactions
- Manage Items (Create GTIN Variant, View GTIN Global Attributes, View/Edit Variant Attributes, Enrich Variant Attributes, and Delete GTIN Variant)
- Approve/Disapprove GTIN Variant

The operations that the Brand Manager can perform in IBM Global Data Synchronization for WebSphere Product Center and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• List</li> <li>• Edit</li> <li>• View</li> <li>• Modify</li> <li>• Explore</li> <li>• Create Variant</li> <li>• Enrich Variant</li> <li>• Delete Variant</li> <li>• Approve /Reject</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• View</li> </ul>	<ul style="list-style-type: none"> <li>• Item Transactions</li> </ul>	<ul style="list-style-type: none"> <li>• New Item Request</li> <li>• Item Change Request</li> </ul>	

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>		<ul style="list-style-type: none"> <li>• View Items</li> </ul>	

**[UDEX CAT - TM - ATTR GROUP SPECIFIC] Product Executive**

The [UDEX CAT – TM – ATTR GROUP SPECIFIC] Product Executive can enrich variant attributes.

The Product Executive has access to the following:

- Notifications
- Quick Search, Basic Search , and Advanced Search for Trade Items, Trade Item Links, and Trading Partner
- Manage Items (View GTIN Global Attributes, View/Edit Variant Attributes, and Enrich Variant Attributes)
- View Trading Partner

The operations that the Product Executive can perform in IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• List</li> <li>• Edit</li> <li>• View</li> <li>• Modify</li> <li>• Explore</li> <li>• Enrich Variant</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> </ul>		<ul style="list-style-type: none"> <li>• New Item Request</li> </ul>	

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>		<ul style="list-style-type: none"> <li>• View Items</li> </ul>	

### [UDEX CAT - TM - ATTR GROUP SPECIFIC] User

The [UDEX CAT – TM – ATTR GROUP SPECIFIC] User can only view GTIN global attributes, view variant attributes and trading partner information.

The User has access to the following:

- Quick Search, Basic Search, and Advanced Search for Trade Items, Trade Item Links, and Trading Partner
- Manage Items (View GTIN Global Attributes, View Variant Attributes)
- View Trading Partner

The operations that the User can perform in IBM Global Data Synchronization for WebSphere Product Center and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"><li>• List</li><li>• View</li><li>• Explore</li></ul>	<ul style="list-style-type: none"><li>• List</li><li>• View</li><li>• Explore</li></ul>	<ul style="list-style-type: none"><li>• List</li><li>• View</li></ul>			

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"><li>• List</li></ul>	<ul style="list-style-type: none"><li>• List</li></ul>	<ul style="list-style-type: none"><li>• List</li></ul>		<ul style="list-style-type: none"><li>• View Items</li></ul>	

### Links Publisher

The Links Publisher can publish the links to the data pool and has access to the following:

- Notifications
- Quick Search, Basic Search , and Advanced Search for Trade Items, Trade Item Links, and Trading Partner
- Add Link
- Explore Transactions
- Manage Items (View GTIN Global Attributes, View Variant Attributes)
- View Trading Partner

The operations that the Links Publisher can perform in IBM Global Data Synchronization for WebSphere Product Center and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Add Item Link</li> </ul>	<ul style="list-style-type: none"> <li>• Publish Transactions</li> <li>• View Generated XML</li> </ul>	<ul style="list-style-type: none"> <li>• Publications</li> <li>• Item Link Add</li> </ul>	

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>		<ul style="list-style-type: none"> <li>• View Items</li> </ul>	

#### **[UDEX CAT - TM SPECIFIC] Variant Publisher**

The [UDEX CAT - TM SPECIFIC] Variant Publisher can publish the variants to the data pool and has access to the following:

- Notifications
- Quick Search, Basic Search , and Advanced Search for Trade Items, Trade Item Links, and Trading Partner
- Publish New Item, Send Initial Load, Add Item, Synchronize Changes
- Explore Transactions
- Manage Items (View GTIN Global Attributes, View Variant Attributes)
- View Trading Partner

The operations that the Variant Publisher can perform in IBM Global Data Synchronization for WebSphere Product Center and WebSphere Product Center are provided in the table.



IBM Global Data Synchronization for WebSphere Product Center Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Explore</li> <li>• Publish New Item</li> <li>• Send Initial Load</li> <li>• Add Item</li> <li>• Synchronize Changes</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> </ul>	<ul style="list-style-type: none"> <li>• Publish Transactions</li> <li>• View Generated XML</li> </ul>	<ul style="list-style-type: none"> <li>• Publications</li> <li>• Initial Load</li> <li>• Item Add</li> </ul>	

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>		<ul style="list-style-type: none"> <li>• View Items</li> </ul>	

### [TM Specific] Marketing Manager

The [TM Specific] Marketing Manager can create, view, edit, delete, approve or reject a Trading Partner for a specific target market.

The Marketing Manager has access to the following:

- Notifications
- Quick Search, Basic Search, and Advanced Search for Trade Items, Trade Item Links, and Trading Partner
- Explore Transactions
- Manage Items (View GTIN Global Attributes, View Variant Attributes)
- Create/View/Edit/Delete/Approve Trading Partner

The operations that the Marketing Manager can perform in IBM Global Data Synchronization for WebSphere Product Center and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• Modify</li> <li>• Delete</li> <li>• Explore</li> <li>• Approve /Reject</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> </ul>	<ul style="list-style-type: none"> <li>• Trading Partner Transactions</li> </ul>	<ul style="list-style-type: none"> <li>• New Trading Partner Request</li> <li>• Trading Partner Change Request</li> </ul>	<ul style="list-style-type: none"> <li>• Run Trading Partner Reports</li> <li>• View Trading Partner Reports</li> </ul>

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>		<ul style="list-style-type: none"> <li>• View Items</li> </ul>	

### **Workflow Roles**

The following workflow roles are precluded in the solution. The user needs to have these roles to do actions related to workflows. When creating new users to do some action(s) in a specified workflow, then that user should be assigned with a specific role(s).

- GDS\_Approve\_Item\_WF\_Role: This role is required to approve an item.
- GDS\_Approve\_Modified\_TP\_WF\_Role: This role is required to approve a modified Trading Partner.
- GDS\_Approve\_New\_TP\_WF\_Role: This role is required to approve a new Trading Partner.
- GDS\_Approve\_TP\_Deletion\_WF\_Role: This role is required to approve a deleted Trading Partner.
- GDS\_Enrich\_Global\_Attributes\_WF\_Role: This role is required to enrich the global attributes.
- GDS\_Enrich\_Local\_Attributes\_WF\_Role: This is required to enrich the local attributes.

- GDS\_Modify\_Global\_And\_Check\_Compliance\_WF\_Role: This is required to change global attributes of a registered item and perform the compliance check.
- GDS\_Approve\_Modify\_Global\_Item\_WF\_Role: This role is required to approve changes in global attributes of a registered item.
- GDS\_Modify\_Local\_And\_Check\_Compliance\_WF\_Role: This role is required to change local attributes of a registered item and perform the compliance check.
- GDS\_Approve\_Modify\_Local\_Item\_WF\_Role: This role is required to approve changes in local attributes of a registered item.
- GDS\_Approve\_Modify\_Link\_WF\_Role: This role is required to approve links. This may be a new link approval or modify link approval or deletion link approval.

### Access Control Groups

Examples of UDEX Category and Target Market Specific ACGs are provided in the following table.

ACG	Roles	
ALCOHOL BASED MIXERS ACG	ALCOHOL BASED MIXERS Global Brand Manager	[UDEX CAT SPECIFIC] Global Brand Manager
	ALCOHOL BASED MIXERS Global Product Executive	[UDEX CAT SPECIFIC] Global Product Executive
	ALCOHOL BASED MIXERS - US Brand Manager	[UDEX CAT - TM SPECIFIC] Brand Manager
	ALCOHOL BASED MIXERS UK Brand Manager	
	ALCOHOL BASED MIXERS - US - Logistics Product Executive	[[UDEX CAT - TM - ATTR GROUP SPECIFIC] Product Executive
	ALCOHOL BASED MIXERS - US - Measures Product Executive	
	ALCOHOL BASED MIXERS - US - Nutrition Product Executive	
	ALCOHOL BASED MIXERS - UK - Logistics Product Executive	
	ALCOHOL BASED MIXERS - UK - Measures Product Executive	
	ALCOHOL BASED MIXERS - UK - Nutrition Product Executive	
US ACG	ALCOHOL BASED MIXERS - US Brand Manager	[UDEX CAT - TM SPECIFIC] Brand Manager
	ALCOHOL BREWING_MAKING KITS US Brand Manager	
	ALCOHOL BASED MIXERS - US - Logistics Product Executive	[[UDEX CAT - TM - ATTR GROUP SPECIFIC]

ACG	Roles	
	ALCOHOL BASED MIXERS - US - Measures Product Executive	Product Executive
	ALCOHOL BASED MIXERS - US - Nutrition Product Executive	
	ALCOHOL BREWING_MAKING KITS - US - Logistics Product Executive	
	ALCOHOL BREWING_MAKING KITS - US - Measures Product Executive	
	ALCOHOL BASED MIXERS - US - Logistics User	[[UDEX CAT - TM - ATTR GROUP SPECIFIC] User
	ALCOHOL BASED MIXERS - US - Measures User	
	ALCOHOL BASED MIXERS - US - Nutrition User	
	ALCOHOL BREWING_MAKING KITS - US - Logistics User	
	ALCOHOL BASED MIXERS - US Variant Publisher	[UDEX CAT - TM SPECIFIC] Variant Publisher
	ALCOHOL BREWING_MAKING KITS US Variant Publisher	

## Selections

The following Selections have been pre-seeded into the model.

Selection	ACG	Catalog	Hierarchy	Selected Categories
UNET_ALCOHOL BASED MIXES/MIXERS	Alcohol ACG	Global_Catalog	UDEX_Hierarchy_UCCNet	<ul style="list-style-type: none"> <li>• ALCOHOL BASED MIXES/MIXERS</li> <li>• ALCOHOL BASED COCKTAILS/MIXES</li> <li>• ALCOHOL BASED MIXERS</li> </ul>
UNET_ANIMAL/PET ACCESSORIES OTHER	Animal Pet ACG	Global_Catalog	UDEX_Hierarchy_UCCNet	<ul style="list-style-type: none"> <li>• ANIMAL/PET ACCESSORIES OTHER</li> <li>• ANIMAL/PET ACCESSORIES OTHER</li> <li>• ANIMAL/PET ACCESSORIES OTHER VARIETY PACKS/SETS</li> </ul>

Selection	ACG	Catalog	Hierarchy	Selected Categories
UNET_CEREAL GRAINS WITH ADDITIONS - DRY (SHELF STABLE)	Cereal Grains ACG	Global_Catalog	UDEX_Hierarchy_UCCNet	<ul style="list-style-type: none"> <li>• CEREAL GRAINS WITH ADDITIONS - DRY (SHELF STABLE)</li> <li>• BULGUR WHEAT WITH ADDITIONS - DRY (SHELF STABLE)</li> <li>• CEREAL GRAINS OTHER WITH ADDITIONS - DRY (SHELF STABLE)</li> </ul>
TM_Africa	Africa ACG	Global_Local_Catalog	Target_Market_Hierarchy	<ul style="list-style-type: none"> <li>• EG</li> <li>• SA</li> </ul>
TM_NorthAmerica	North America ACG	Global_Local_Catalog	Target_Market_Hierarchy	<ul style="list-style-type: none"> <li>• US</li> <li>• CA</li> </ul>

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## Appendix B – Sample Scenarios, demand side

This appendix provides information about the various Roles, Access Control Groups (ACGs), and Selections. It also provides the list of accessible features and operations that can be performed by the respective roles. Keeping the sample scenario as an example you can create various ACGs and assign roles.

### Roles

For every IBM Global Data Synchronization for WebSphere Product Center user a set of Roles can be assigned. As an example, consider the company XYZ. This company has four main departments such as Lighting, Consumer Electronics, Software, and Components. Each of these departments has a Global Brand Manager. They are:

- Lighting Global Brand Manager
- Consumer Electronics Global Brand Manager
- Software Global Brand Manager
- Components Global Brand Manager

Note: The naming convention is [UDEX CAT SPECIFIC] Global Brand Manager. That is, Lighting is the UDEX specific category.

The Global Brand Managers are responsible for creating a GTIN. Each of these Global Brand Managers has product executives. Once the Global Brand Manager creates the GTIN, a notification is sent to the product executives to enrich the global attributes. The respective product executives are:

- Lighting Global Product Executive
- Consumer Electronics Global Product Executive
- Software Global Product Executive
- Components Global Product Executive

Note: The Global Brand Manager can also enrich some or all the global attributes.

When all the product executives have completed enriching the global attributes, only then is the global enrichment process complete. A notification that the global enrichment for the trade item is complete is sent to the Global Brand Manager.

Now, if company XYZ has business relations with US, Holland, and Singapore, there will be target market specific Brand Managers for each category. They are:

- Lighting US Brand Manager
- Lighting Holland Brand Manager
- Lighting Singapore Brand Manager

- Consumer Electronics US Brand Manager
- Consumer Electronics Holland Brand Manager
- Consumer Electronics Singapore Brand Manager
- Similarly there will be target market specific Brand Managers for each category.

The Global Brand Managers will send the notification to these target market specific Brand Managers to enrich the variants. Each of the target market specific Brand Managers has Product Executives. The Product Executives enrich the variant attributes. Once the variant attributes have been enriched, a notification for variant enrichment completion is sent to the brand managers.

The various roles that are pre-seeded in the IBM Global Data Synchronization for WebSphere Product Center solution are:

- WebSphere Product Centre Administrator
- Global Data Synchronization Administrator
- [UDEX CAT SPECIFIC] Global Brand Manager
- [UDEX CAT SPECIFIC] Global Product Executive
- Target Market Brand Manager
- Target Market Product Executive
- Marketing Manager
- Marketing Executive
- Data Sync Manager
- Data Sync Executive

Note: These roles can be changed based on your requirements.

### WebSphere Product Centre Administrator

The WebSphere Product Centre Administrator has access to the data model. Typically, the administrator is the PSS user.

The operations that can be setup for IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• List</li> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• Modify</li> <li>• Delete</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• List</li> <li>• Modify</li> <li>• Delete</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• List</li> <li>• Modify</li> <li>• Delete</li> <li>• Approve/R</li> </ul>	<ul style="list-style-type: none"> <li>• Publish Transactions</li> <li>• View Generated XML</li> <li>• Item Transactions</li> </ul>	<ul style="list-style-type: none"> <li>• Publications</li> <li>• Initial Load</li> <li>• Item Add</li> <li>• Item Link Add</li> </ul>	<ul style="list-style-type: none"> <li>• Run Publication Reports</li> <li>• View Publication Reports</li> <li>• Run Item Reports</li> </ul>

IBM Global Data Synchronization for WebSphere Product Center Solution

Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• Create Variant</li> <li>• Delete Variant</li> <li>• Enrich Global</li> <li>• Enrich Variant</li> <li>• Approve/Reject</li> <li>• Publish New Item</li> <li>• Send Initial Load</li> <li>• Add Item</li> <li>• Synchronize Changes</li> </ul>	<ul style="list-style-type: none"> <li>• Approve/Reject</li> </ul>	<ul style="list-style-type: none"> <li>• Add Item Link</li> </ul>	<ul style="list-style-type: none"> <li>• Hierarchy Transactions</li> <li>• Trading Partner Transactions</li> </ul>	<ul style="list-style-type: none"> <li>• New Item Request</li> <li>• Item Change Request</li> <li>• New Item Hierarchy Request</li> <li>• Item Hierarchy Change Request</li> <li>• New Trading Partner Request</li> <li>• Trading Partner Change Request</li> </ul>	<ul style="list-style-type: none"> <li>• View Item Reports</li> <li>• Run Trading Partner Reports</li> <li>• View Trading Partner Reports</li> </ul>



WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> <li>• Edit</li> <li>Catalog Views</li> <li>• View Items</li> <li>• Add Items</li> <li>• Modify Items</li> <li>• Delete Items</li> <li>• Recategorize Items</li> <li>• Summary Items</li> <li>• Export Attributes</li> <li>• Differences</li> <li>• Rollback</li> <li>• Search</li> <li>• Delete</li> <li>• Run Preview Script</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• Edit</li> <li>Hierarchy Views</li> <li>• View Hierarchy Nodes</li> <li>• Add</li> <li>Hierarchy Nodes</li> <li>• Modify Hierarchy Node Attributes</li> <li>• Delete Hierarchy Nodes</li> <li>• Recategorize Hierarchy Nodes</li> <li>• Summary Hierarchy Nodes</li> <li>• Specmap Hierarchy Nodes</li> <li>• Attributes</li> <li>• Rollback</li> <li>• Delete</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• Edit Rule</li> <li>• Delete</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• Perform Import</li> <li>• Delete</li> </ul>	<ul style="list-style-type: none"> <li>• View Items</li> <li>• Add Items</li> <li>• Modify Items</li> <li>• Delete Items</li> <li>• Recategorize Items</li> <li>• View Hierarchy Nodes</li> <li>• Add Hierarchy Nodes</li> <li>• Modify Hierarchy Node Attributes</li> <li>• Delete Hierarchy Nodes</li> <li>• Recategorize Hierarchy Nodes</li> <li>• Specmap Hierarchy Nodes</li> </ul>	<ul style="list-style-type: none"> <li>• View Files</li> <li>• Delete Files</li> </ul>

WebSphere Product Center					
Workflow	Collaboration Area	Spec	Screen	Script	Scheduler
<ul style="list-style-type: none"> <li>• List</li> <li>• Edit</li> <li>• Delete</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• Checkout Entries</li> </ul>	<ul style="list-style-type: none"> <li>• Modify Spec</li> <li>• Modify</li> </ul>	<ul style="list-style-type: none"> <li>• View</li> </ul>	<ul style="list-style-type: none"> <li>• Create</li> <li>• Modify</li> <li>• Scripts</li> </ul>	<ul style="list-style-type: none"> <li>• View Company Jobs</li> </ul>

		Spec Map			
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### Global Data Synchronization Administrator

The IBM Global Data Synchronization for WebSphere Product Center administrator has access to all the functionalities in IBM Global Data Synchronization for WebSphere Product Center and some of the functionalities in WebSphere Product Centre such as import/export & user management. The IBM Global Data Synchronization for WebSphere Product Center administrator does not have access to the data model.

The IBM Global Data Synchronization for WebSphere Product Center Administrator has access to the following:

- Notifications
- Quick Search, Basic Search, and Advanced Search for Trade Items, Trade Item Links, and Trading Partners
- Publish New Item, Send Initial Load, Add Item, Add Link, and Synchronize Changes
- Explore Transactions
- Manage Items (Create GTIN, Create GTIN Variant (that is, target market and Information provider), View/Edit GTIN Global Attributes, View/Edit Variant Attributes, Enrich GTIN Global Attributes, Enrich Variant Attributes, Delete GTIN, and Delete GTIN Variant)
- Approve/Reject Items
- Create/View/Edit/Delete/Approve Trading Partner
- Import/Export Items, Item Links
- User Management & Security
- Reports

The operations that can be setup for IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• List</li> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• Modify</li> <li>• Delete</li> <li>• Explore</li> <li>• Create Variant</li> </ul>	<ul style="list-style-type: none"> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• List</li> <li>• Modify</li> <li>• Delete</li> <li>• Explore</li> <li>• Approve/Reject</li> </ul>	<ul style="list-style-type: none"> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• List</li> <li>• Modify</li> <li>• Delete</li> <li>• Approve/Reject</li> <li>• Add Item</li> </ul>	<ul style="list-style-type: none"> <li>• Publish Transactions</li> <li>• View Generated XML</li> <li>• Item Transactions</li> </ul>	<ul style="list-style-type: none"> <li>• Publications</li> <li>• Initial Load</li> <li>• Item Add</li> <li>• Item Link Add</li> <li>• New Item Request</li> <li>• Item Change Request</li> </ul>	<ul style="list-style-type: none"> <li>• Run Publication Reports</li> <li>• View Publication Reports</li> <li>• Run Item Reports</li> <li>• View Item Reports</li> </ul>

IBM Global Data Synchronization for WebSphere Product Center Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• Delete Variant</li> <li>• Enrich Global</li> <li>• Enrich Variant</li> <li>• Approve/Reject</li> <li>• Publish New Item</li> <li>• Send Initial Load</li> <li>• Add Item</li> <li>• Synchronize Changes</li> </ul>		Link	<ul style="list-style-type: none"> <li>• Hierarchy Transactions</li> <li>• Trading Partner Transactions</li> </ul>	<ul style="list-style-type: none"> <li>• New Item Hierarchy Request</li> <li>• Item Hierarchy Change</li> <li>• New Trading Partner Request</li> <li>• Trading Partner Change Request</li> </ul>	<ul style="list-style-type: none"> <li>Reports</li> <li>• Run Trading Partner</li> <li>• View Trading Partner Reports</li> </ul>

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• Perform Import</li> <li>• Delete</li> </ul>	<ul style="list-style-type: none"> <li>• View Items</li> </ul>	

WebSphere Product Center					
Workflow	Collaboration Area	Spec	Screen	Script	Scheduler
			<ul style="list-style-type: none"> <li>• View</li> </ul>	<ul style="list-style-type: none"> <li>• Create</li> <li>• Modify</li> <li>• Scripts</li> </ul>	<ul style="list-style-type: none"> <li>• View Company Jobs</li> </ul>

**[UDEX CAT SPECIFIC] Global Brand Manager**

The Global Brand Manager is responsible for creating new trade items (global variant). The Global Brand Manager can also edit local variant, delete an item and its local variant. There will be one Global Brand Manager for each category.

The Global Brand Manager has access to the following:

- Notifications
- Quick Search, Basic Search, and Advanced Search for Trade Items, Trade Item Links, and Trading Partners
- Explore Transactions
- Manage Items (Create GTIN, View/Edit GTIN Global Attributes, View/Edit Variant Attributes, Delete GTIN, and Delete GTIN Variant)
- View Trading Partner
- Item Reports

The operations that the Global Brand Manager can perform in IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• List</li> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• Modify</li> <li>• Delete</li> <li>• Delete Variant</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• View</li> <li>• List</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• Create</li> <li>• Edit</li> <li>• View</li> <li>• List</li> <li>• Modify</li> <li>• Delete</li> <li>• Approve/Reject</li> </ul>	<ul style="list-style-type: none"> <li>• Item Transactions</li> <li>• Hierarchy Transactions</li> <li>• Trading Partner Transactions</li> </ul>	<ul style="list-style-type: none"> <li>• New Item Request</li> <li>• Item Change Request</li> <li>• New Item Hierarchy Request</li> <li>• Item Hierarchy Change Request</li> </ul>	<ul style="list-style-type: none"> <li>Run Item reports</li> <li>View Item reports</li> </ul>

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>		<ul style="list-style-type: none"> <li>• View Items</li> </ul>	<ul style="list-style-type: none"> <li>• View Files</li> <li>• Delete Files</li> </ul>

**[UDEX CAT Specific] Global Product Executive**

The Global Product Executive can enrich GTIN global attributes and also view or edit the variant attributes.

The Global Product Executive has access to the following:

- Notifications
- Quick Search, Basic Search, and Advanced Search for Trade Items, Trade Item Links, and Trading Partners
- Manage Items (View/Edit GTIN Global Attributes, View/Edit Variant Attributes, and Enrich GTIN Global Attributes)
- View Trading Partner

The operations that the Global Product Executive can perform in IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• List</li> <li>• Edit</li> <li>• View</li> <li>• Modify</li> <li>• Explore</li> <li>• Enrich Global</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> </ul>	<ul style="list-style-type: none"> <li>• Item Transaction</li> </ul>	New Item Request	

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>		<ul style="list-style-type: none"> <li>• View Items</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• View Files</li> <li>• Delete Files</li> </ul>

## Target Market Brand Manager

The [UDEX CAT – TM Specific] Brand Manager can create, delete a variant of an item, approve, or disapprove the variant.

The Brand Manager has access to the following:

- Notifications
- Quick Search, Basic Search , and Advanced Search for Trade Items, Trade Item Links, and Trading Partners
- Explore Transactions
- Manage Items (Create GTIN Variant, View GTIN Global Attributes, View/Edit Variant Attributes, Enrich Variant Attributes, and Delete GTIN Variant)
- Approve/Disapprove GTIN Variant

The operations that the Target Market Brand Manager can perform in IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution					
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications	Reports
<ul style="list-style-type: none"> <li>• List</li> <li>• Edit</li> <li>• View</li> <li>• Modify</li> <li>• Explore</li> <li>• Create Variant</li> <li>• Delete Variant</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Edit</li> <li>• Delete</li> <li>• Create</li> <li>• Modify</li> </ul>	<ul style="list-style-type: none"> <li>• Item Transactions</li> <li>• Hierarchy Transactions</li> </ul>	<ul style="list-style-type: none"> <li>• New Item Request</li> <li>• Item Change Request</li> <li>• New Item Hierarchy Request</li> <li>• Item Hierarchy Change Request</li> </ul>	<ul style="list-style-type: none"> <li>• Run Trading partner</li> <li>• View Trading Partner reports</li> </ul>

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>		<ul style="list-style-type: none"> <li>• View Items</li> </ul>	<ul style="list-style-type: none"> <li>• View Files</li> <li>• Delete Files</li> </ul>

## Target Market Product Executive

The Target Market Product Executive can enrich variant attributes.

The Target Market Product Executive has access to the following:

- Notifications
- Quick Search, Basic Search , and Advanced Search for Trade Items, and Trading Partner
- Manage Items (View GTIN Global Attributes, View/Edit Variant Attributes, and Enrich Variant Attributes)
- View Trading Partner

The operations that the Target Market Product Executive can perform in IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution				
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications
<ul style="list-style-type: none"> <li>• List</li> <li>• Edit</li> <li>• View</li> <li>• Modify</li> <li>• Explore</li> <li>• Enrich Variant</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Explore</li> </ul>			<ul style="list-style-type: none"> <li>• New Item Request</li> <li>• Item Change Request</li> </ul>

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>		<ul style="list-style-type: none"> <li>• View Items</li> </ul>	View Files Delete Files

## Marketing Manager

The Marketing Manager can view trade Items and trading partner information.

The Marketing Manager has access to the following:

- Notifications
- Quick Search, Basic Search, and Advanced Search for Trade Items, Trade Item Links, and Trading Partner
- Manage Items (View GTIN Global Attributes, View Variant Attributes)
- View Trading Partner

The operations that the Marketing Manager can perform in IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution				
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications
<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Edit</li> <li>• Delete</li> <li>• Create</li> <li>• Modify</li> <li>• Explore</li> <li>• Approve/Reject</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> </ul>	Trading Partner Transactions	<ul style="list-style-type: none"> <li>New Trading Partner Request</li> <li>Trading Partner Change Request</li> </ul>

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>		<ul style="list-style-type: none"> <li>• View Items</li> </ul>	<ul style="list-style-type: none"> <li>View Files</li> <li>Delete Files</li> </ul>

### Marketing Executive

The Marketing Executive can view Trade Items and Trading Partner Information

- Notifications
- Quick Search, Basic Search , and Advanced Search for Trade Items, Trade Item Links, and Trading Partner
- Add Link
- Explore Transactions
- Manage Items (View GTIN Global Attributes, View Variant Attributes)
- View Trading Partner

The operations that the Marketing Executive can perform in IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution
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Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications
<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> <li>• Edit</li> <li>• Delete</li> <li>• Create</li> <li>• Modify</li> <li>• Explore</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> <li>• View</li> </ul>	<ul style="list-style-type: none"> <li>• Trading Partner Transactions</li> </ul>	<ul style="list-style-type: none"> <li>New Trading Partner Request</li> <li>Trading Partner Change Request</li> </ul>

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>		<ul style="list-style-type: none"> <li>• View Items</li> </ul>	<ul style="list-style-type: none"> <li>View Files</li> <li>Delete Files</li> </ul>

### Data Sync Manager

The Data Sync Manager can process and approve Subscriptions and has access to the following:

- Notifications
- Quick Search, Basic Search , and Advanced Search for Trade Items
- Publish New Item, Send Initial Load, Add Item, Synchronize Changes, Request for Publication, Process Initial Load and Process Item Change and Item Delist
- Explore Transactions

The operations that the Data Sync Manager can perform in IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution				
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications
<ul style="list-style-type: none"> <li>• Request For Publication               <ul style="list-style-type: none"> <li>• Stop Synchronization</li> </ul> </li> <li>• Process Initial Load</li> <li>• Process New Item</li> <li>• Process Item Change</li> <li>• Process Item Delist</li> <li>• Process item withdraw</li> <li>• Submit For Enrichment</li> <li>• Classify Item</li> <li>• Synchronize Internally</li> <li>• Publication Explore</li> <li>• Query Item</li> </ul>			<ul style="list-style-type: none"> <li>• Publish Transactions</li> <li>• View Generated XML</li> </ul>	<ul style="list-style-type: none"> <li>• New Item Publications</li> <li>• Initial Load Publications</li> <li>• Item Change Publication</li> <li>• Item Delist Publication</li> <li>• Item Withdraw Publication               <ul style="list-style-type: none"> <li>• Subscription Request</li> <li>• Filter Request</li> </ul> </li> </ul>

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>	<ul style="list-style-type: none"> <li>• List</li> </ul>		<ul style="list-style-type: none"> <li>• View Items</li> </ul>	View Files Delete Files

### Data Synch Executive

The Data Synch Executive can process Subscriptions and Filters.

The Data Synch Executive has access to the following:

- Notifications
- Publish New Item, Send Initial Load, Add Item, Synchronize Changes, Request for Publication, Process Initial and Query Items
- Explore Transactions

The operations that the Marketing Manager can perform in IBM Global Data Synchronization for WebSphere Product Center solution and WebSphere Product Center are provided in the table.

IBM Global Data Synchronization for WebSphere Product Center Solution				
Trade Item	Trading Partner	Trade Item Link	Transactions	Notifications
<ul style="list-style-type: none"> <li>• Request For Publication               <ul style="list-style-type: none"> <li>• Stop Synchronization</li> </ul> </li> <li>• Process Initial Load</li> <li>• Process New Item               <ul style="list-style-type: none"> <li>• Process Item Change</li> </ul> </li> <li>• Process Item Delist               <ul style="list-style-type: none"> <li>• Process item withdraw</li> <li>• Submit For Enrichment</li> </ul> </li> <li>• Classify Item</li> <li>• Synchronize Internally</li> <li>• Publication Explore               <ul style="list-style-type: none"> <li>• Synchronize Changes</li> <li>• Classify Item</li> <li>• Synchronize Internally</li> <li>• Query Item</li> </ul> </li> </ul>			<ul style="list-style-type: none"> <li>• Publish Transactions</li> <li>• View Generated XML</li> </ul>	<ul style="list-style-type: none"> <li>• New Item Publications</li> <li>• Initial Load Publications</li> <li>• Item Change Publication</li> <li>• Item Delist Publication</li> <li>• Item Withdraw Publication               <ul style="list-style-type: none"> <li>• Subscription Request</li> <li>• Filter Request</li> </ul> </li> </ul>

WebSphere Product Center					
Catalog	Hierarchy	Selection	Import	Selection Members	DocStore
• List	• List	• List		• View Items	View Files Delete Files

## Workflow Roles

The following workflow roles are pre-seeded in the solution. The user needs to have these roles to do actions related to workflows. When a new user is created to perform certain action(s) in a specified workflow, that user should be assigned with a specific role(s). These roles qualify the user to perform the actions.

- GDS\_ALL\_WF\_Role: This role is usually given to the administrator user. User with this role can access all workflows
- GDS\_Approve\_Filter\_Deletion\_WF\_Role : This role is required to approve filter deletions.
- GDS\_Approve\_Filter\_WF\_Role: This role is required to approve filter creations.
- GDS\_Approve\_Item\_Deletion\_WF\_Role: This role is required to approve item deletions.
- GDS\_Approve\_Item\_WF\_Role: This role is required to approve Item creations.
- GDS\_Approve\_Link\_Deletion\_WF\_Role: This role is required to approve Item Link deletions.
- GDS\_Approve\_Link\_WF\_Role: This role is required to approve Link creation.
- GDS\_Approve\_Modified\_Filter\_WF\_Role: This role is required to approve filter modifications.
- GDS\_Approve\_Modified\_TP\_WF\_Role: This role is required to approve trading partner modifications.
- GDS\_Approve\_Modify\_Link\_WF\_Role: This role is required to approve Item Link modifications.
- GDS\_Approve\_Modify\_Trade\_Item\_WF\_Role: This role is required to approve trade item modifications.
- GDS\_Approve\_New\_TP\_WF\_Role: This role is required to approve creation of new trading partners.
- GDS\_Approve\_Subscription\_Deletion\_WF\_Role: This role is required to approve subscription deletion.
- GDS\_Approve\_Subscription\_WF\_Role: This role is required to approve subscription creation.

- GDS\_Approve\_TP\_Deletion\_WF\_Role: This role is required to approve trading partner deletion.
- GDS\_Enrich\_Global\_Attributes\_WF\_Role: This role is required to enrich global attributes for a trade item.
- GDS\_Enrich\_Local\_Attributes\_WF\_Role: This role is required to enrich Local Attributes for a trade item.
- GDS\_Internal\_Sync\_WF\_Role: This role is required to perform internal synchronization of a trade item.
- GDS\_Modify\_Filter\_WF\_Role: This role is required to modify a filter.
- GDS\_Modify\_Trade\_Item\_WF\_Role: This role is required to modify a trade item.
- GDS\_Process\_Initial\_Load\_Publication\_WF\_Role: This role is required to process an initial load publication.
- GDS\_Process\_Item\_Change\_Publication\_WF\_Role: This role is required to process an item change publication.
- GDS\_Process\_Item\_Delist\_Publication\_WF\_Role: This role is required to process an item delist publication.
- GDS\_Process\_Item\_Withdraw\_Publication\_WF\_Role: This role is required to process an item withdraw publication.
- GDS\_Process\_New\_Item\_Publication\_WF\_Role: This role is required to process new item publication.
- GDS\_Set\_Category\_Mapping\_WF\_Role: This role is required to set category mapping
- GDS\_Submit\_For\_Enrichment\_WF\_Role: This role is required to submit a trade item for enrichment

### **Access Control Groups**

Examples of UDEX Category and Target Market Specific ACGs are provided in the following table.

ACG	Roles	
ALCOHOL BASED MIXERS ACG	ALCOHOL BASED MIXERS Global Brand Manager	[UDEX CAT SPECIFIC] Global Brand Manager
	ALCOHOL BASED MIXERS Global Product Executive	[UDEX CAT SPECIFIC] Global Product Executive
	ALCOHOL BASED MIXERS - US Brand Manager	[UDEX CAT - TM SPECIFIC] Brand Manager
	ALCOHOL BASED MIXERS UK Brand Manager	
	ALCOHOL BASED MIXERS - US - Logistics Product Executive	[[UDEX CAT - TM - ATTR GROUP SPECIFIC]

ACG	Roles	
	ALCOHOL BASED MIXERS - US - Measures Product Executive	Product Executive
	ALCOHOL BASED MIXERS - US - Nutrition Product Executive	
	ALCOHOL BASED MIXERS - UK - Logistics Product Executive	
	ALCOHOL BASED MIXERS - UK - Measures Product Executive	
	ALCOHOL BASED MIXERS - UK - Nutrition Product Executive	
US ACG	ALCOHOL BASED MIXERS - US Brand Manager	[[UDEX CAT - TM SPECIFIC] Brand Manager
	ALCOHOL BREWING_MAKING KITS US Brand Manager	
	ALCOHOL BASED MIXERS - US - Logistics Product Executive	[[UDEX CAT - TM - ATTR GROUP SPECIFIC] Product Executive
	ALCOHOL BASED MIXERS - US - Measures Product Executive	
	ALCOHOL BASED MIXERS - US - Nutrition Product Executive	
	ALCOHOL BREWING_MAKING KITS - US - Logistics Product Executive	
	ALCOHOL BREWING_MAKING KITS - US - Measures Product Executive	
	ALCOHOL BASED MIXERS - US - Logistics User	[[UDEX CAT - TM - ATTR GROUP SPECIFIC] User
	ALCOHOL BASED MIXERS - US - Measures User	
	ALCOHOL BASED MIXERS - US - Nutrition User	
	ALCOHOL BREWING_MAKING KITS - US - Logistics User	
	ALCOHOL BASED MIXERS - US Variant Publisher	[[UDEX CAT - TM SPECIFIC] Variant Publisher
	ALCOHOL BREWING_MAKING KITS US Variant Publisher	

## Selections

The following Selections have been pre-seeded into the model which means that the following selections will be added to the model, during the installation process of the application.

Selection	ACG	Catalog	Hierarchy	Selected Categories
UNET_ALCOHOL BASED MIXES/MIXERS	Alcohol ACG	Globa_Catalog	UDEX_Hierarchy_UCCNet	<ul style="list-style-type: none"> <li>• ALCOHOL BASED MIXES/MIXERS</li> <li>• ALCOHOL BASED COCKTAILS/MIXES</li> <li>• ALCOHOL BASED MIXERS</li> </ul>
UNET_ANIMAL/PET ACCESSORIES OTHER	Animal Pet ACG	Global_Catalog	UDEX_Hierarchy_UCCNet	<ul style="list-style-type: none"> <li>• ANIMAL/PET ACCESSORIES OTHER</li> <li>• ANIMAL/PET ACCESSORIES OTHER</li> <li>• ANIMAL/PET ACCESSORIES OTHER VARIETY PACKS/SETS</li> </ul>
UNET_CEREAL GRAINS WITH ADDITIONS - DRY (SHELF STABLE)	Cereal Grains ACG	Global_Catalog	UDEX_Hierarchy_UCCNet	<ul style="list-style-type: none"> <li>• CEREAL GRAINS WITH ADDITIONS - DRY (SHELF STABLE)</li> <li>• BULGUR WHEAT WITH ADDITIONS - DRY (SHELF STABLE)</li> <li>• CEREAL GRAINS OTHER WITH ADDITIONS - DRY (SHELF STABLE)</li> </ul>
TM_Africa	Africa ACG	Global_Local_Catalog	Target_Market_Hierarchy	<ul style="list-style-type: none"> <li>• EG</li> <li>• SA</li> </ul>
TM_NorthAmerica	North America ACG	Global_Local_Catalog	Target_Market_Hierarchy	<ul style="list-style-type: none"> <li>• US</li> <li>• CA</li> </ul>





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# Appendix C – Installation Checklist

## *Installation Checklist*

### **Checklist for installing GDS Supply Side on WAS, DB2**

- ❑ Ensure that the correct version of WebSphere Product Center is installed.
- ❑ Create a company in WebSphere Product Center that will be used for Supply Side Data synchronization.
- ❑ Before installing GDS, ensure that WebSphere Product Center is not running.
- ❑ Run the installer to install GDS for the required platform.
- ❑ Modify .bashrc for GDS \$TOP variable.
- ❑ Modify .bashrc for WPC\_INSTALL\_DIR and WPC\_JAR
- ❑ Modify init\_cgd\_vars.sh(\$TOP/setup) to set the values for WAS\_HOME, JDK\_HOME, DB2\_HOME, WAS\_HOME, WAS\_NODENAME, WAS\_APPSERVERNAME and WAS\_VHOST
- ❑ Modify gds.properties to set the correct parameter values for company\_code, app\_type and active DataPool.
- ❑ Modify common.properties in GDS to set the parameter values for db\_username, db\_password, db\_url (should be the same as set in WebSphere Product Center).
- ❑ Modify common.properties in GDS to set the parameter values for db\_username, db-password, db\_url (should be the same as set in WebSphere Product Center).
- ❑ Modify common.properties in GDS to set the parameter values for rmi\_port, appsvr\_port ( rmi port should be the same as WebSphere Product Center but the appsvr\_port should be different).
- ❑ Run test\_db.sh(\$TOP/bin) to verify if the database connection is working.
- ❑ Run create\_vhost.sh, create\_appsvr.sh, install\_supply\_war.sh scripts (These scripts are available in \$TOP/bin/WebSphere).
- ❑ Create a softlink in WebSphere Product Center directory for the .bindings, gds.properties and gdsSupplyTradelItemFunctions from GDS directory(\$TOP/etc/default).
- ❑ Load the supply side datamodel using the script create\_gds\_supply\_schema.sh for the company as specified in Step 2.
- ❑ Restart Websphere Product Center.
- ❑ Create Roles as required in WebSphere Product Center.
- ❑ Create Access Control Groups(ACG) as required in WebSphere Product Center
- ❑ Create User and assign Roles accordingly in WebSphere Product Center.

- ❑ Create Selections for the required Access Control Groups in WebSphere Product Center.
- ❑ Create Catalog Access Privileges in WebSphere Product Center.
- ❑ Restart WebSphere Product Center.
- ❑ Start IBM Global Data Synchronization for Websphere Product Center by running `start_appsvr.sh($TOP/bin/go/start)`.

### **Checklist for installing IBM Global Data Synchronization for WebSphere Product Center for Demand Side on WAS, DB2**

- ❑ Start Global Data Synchronization by running `start_appsvr.sh($TOP/bin/go/start)`.
- ❑ Ensure the correct version of WebSphere Product Center is installed.
- ❑ Create a Company in WebSphere Product Center which will be used for Demand Side Data Sync.
- ❑ Ensure that Websphere Product Center is not running.
- ❑ Run the installer to install IBM global Data Synchronization for WebSphere Product Center for the required platform.
- ❑ Modify `.bashrc` for GDS \$TOP variable.
- ❑ Modify `.bashrc` for WPC\_INSTALL\_DIR & WPC\_JAR.
- ❑ Modify `init_cgd_vars.sh` (`$TOP/setup`) to set the values for WAS\_HOME, JDK\_HOME, DB2\_HOME, WAS\_HOME, WAS\_NODENAME, WAS\_APPSERVERNAME and WAS\_VHOST.
- ❑ Modify `gds.properties` to set the correct parameter values for Company\_code, App\_type and activeDataPool.
- ❑ Modify `common.properties` in IBM Global Data Synchronization for WebSphere Product Center to set the parameter values for db\_username, db\_password, db\_url. (Should be same as used for WebSphere Product Center).
- ❑ Modify `common.properties` in IBM Global Data Synchronization for WebSphere product Center to set the parameter values for rmi\_port, appsvr\_port. (rmi port should be same as used in WebSphere Product Center, appsvr\_port should be different).
- ❑ Run `test_db.sh($TOP/bin)` to verify database connection is working.
- ❑ Run `create_vhost.sh`, `create_appsvr.sh`, `install_supply_war.sh` scripts(Available in `$TOP/bin/webpsphere`).
- ❑ Create a softlink in WPC for `.bindings`, `gds.properties` & `gdsDemandTradeItemFunctions` from IBM Global Data Synchronization for WebSphere Product Center directory(`$TOP/etc/default`).
- ❑ Load the supply side datamodel using the script `create_gds_demand_schema.sh` for the company as specified in Step 2.

- ❑ Bring WebSphere Product Center up.
- ❑ Create Roles as required in WebSphere Product Center
- ❑ Create Access Control Groups(ACGs) as required in WebSphere Product Center
- ❑ Create User and assign Roles accordingly in WebSphere Product Center
- ❑ Create Selections for the required Access Control Groups in WebSphere Product Center
- ❑ Create Catalog Access Privileges in WebSphere Product Center.
- ❑ Restart WebSphere Product Center
- ❑ Start IBM Global Data Synchronization for WebSphere Product Center by running `start_appsvr.sh($TOP/bin/go/start)`

## Appendix D – Variables in gds.properties

Variable	Values	Remarks
Company_code	<Name of the company>	Specify the value of company created in WPC like supply-side, Acme etc.
admin_user	<Admin>	This is the value for Admin user login to GDS. Default value is Admin.
gds_app_type		This is component of the application that is being installed.
<b>ENRICHMENT OPTIONS</b>		
global_enrichment	true	The possible values are true & false. Global enrichment workflow will be turned on if the value if true and turned off if the value if false.
local_enrichment	true	The possible values are true & false. Local enrichment workflow will be turned on if the value if true and turned off if the value if false.
<b>APPROVAL OPTIONS</b>		
NEW_ITEM_APPROVAL	On/OFF	New Item Approval workflow will be turned ON if the value if ON and turned off if the value if OFF
MODIFY_ITEM_APPROVAL	On/OFF	Modify Item Approval workflow will be turned ON if the value if ON and turned off if the value if OFF
DELETE_ITEM_APPROVAL	On/OFF	Delete Item Approval workflow will be turned ON if the value if ON and turned off if the value if OFF
MODIFY_LINK_APPROVAL	On/Off	Modify Link Approval workflow will be turned ON if the value if ON and turned off if the value if OFF
NEW_TP_APPROVAL	On/Off	New Trading Partner Approval workflow will ON be turned ON if the value if ON and turned off if the value if OFF
MODIFY_TP_APPROVAL	On/Off	Modify Trading Partner Approval workflow will ON be turned ON if the value if ON and turned off if the value if OFF
DELETE_TP_APPROVAL	On/Off	Delete Trading Partner Approval workflow will ON be turned ON if the value if ON and turned off if the value if OFF

<b>Validation Scripts Path</b>		
TRADE_ITEM_VALIDATION_SCRIPT_PATH= / Path of the Trade Item Validation Script in WPC	Path of the trade item validation script in WevbSphere Product Center For example: scripts/distribution/Trade Item Validation	This is script used for the compliance check of the trade item.
TRADE_ITEM_LINK_VALIDATION_SCRIPT_PATH	Path of the trade item link validation script in WevbSphere Product Center For example: scripts/distribution/Trade Item LinkValidation	This is script used for the compliance check of the trade item link.
UCCNET_GTIN_REGISTRATION	True/False	If set to True, it performs validation for all incoming publications for the mandatory attributes in the trade item.
<b>Internal hierarchy classification</b>		
udex_to_internal_hierarchy_mapping	False/True	The variable is a flag which specifies automatic mapping between Udex Hierarchy and Internal Hierarchy. If value is set to true, automatic mapping is done. If false, manual mapping is required to be done.
udex_to_internal_hierarchy_mapping_without_security_breach	True/False	If value is set to true, it is assumed that mapping does not introduce a security breach. If false, indicates vice versa.
udex_to_gpc_hierarchy_mapping	True/False	The property sets the automating mapping between the GPC and Internal hierarchy.
Internal_Classification_Scheme	Internal_Hierarchy UDEX_Hierarchy_UCCNet GPC_Hierarchy	This is the primary classification scheme in GDS. All security setting for selection should be based on this classification.
transactionID	<TransactionIDFile>	This generates a file with this name in the \$TOP_ETC_DIR. It is used to store the current Transaction ID.
batchID	BatchIDFile	Generates a file with this name in the \$TOP_ETC_DIR. Used to store the current Transaction Batch ID.
<b>Organizational Settings</b>		

default_ip	Value is set at the configuration time	Default value used for “Information Provider” while generating the XML. This is set in the header of the XML.			
<b>Attribute groups settings for GTIN</b>					
ATTRIBUTE_GROUP_LOOKUP_TABLE	Attribute_Group_Names_LookUP	The Lookup table that contains the list of all the Attribute Collection to be displayed in the GDS UI.			
REQUIRED_TYPE_ATTRIBUTE_GROUP_LOOKUP_TABLE	Required_Type_Attribute_Group_Names_LookUP	The Lookup table that contains the list of all the required attribute collections to be displayed in the GDS UI.			
<b>Default Locale</b>					
default_locale	en_US	This is the default locale assigned to the user on first login.			
<b>Enabling GS1</b>					
GS1_ENABLED	True/False	If set to true, the organization is GS1 enabled and if false GS1 is disabled.			
<b>Setting Batch Limit</b>					
Batch_Limit	<numeric value>	Sets the Batch limit while generating the XML for trade items.			
<b>GTIN Search Setting</b>					
GTIN_SEARCH_PAGINATION_SIZE	<numeric value>	This value will set the number of records to be retrieved from GTIN search criteria.			
GLN_SEARCH_PAGINATION_SIZE	<numeric value>	This value will set the number of records to be retrieved from GLN search criteria.			
pagination_size	<numeric value>	This value will set the number of categories to be displayed in the category tree page.			
USE_NEW_METHOD	True/false	Used for memory profiling. if USE_NEW_METHOD is true then new method for displaying buttons in Manage Items will be called otherwise the older GDSUtils.getPossibleActions will be called.			
<b>Enabling Workflows</b>					
Initial Load	New Item	Item Change	Subscription		
INITIAL_LOAD_PUBLICATION_AUTO_REJECT	NEW_ITEM_PUBLICATION_AUTO_REJECT	ITEM_CHANGE_PUBLICATION_AUTO_REJECT	NEW_SUBSCRIPTION_APPROVAL	On/OFF	
INITIAL_LOAD_PUBLICATION_APPROVAL	NEW_ITEM_PUBLICATION_APPROVAL	ITEM_CHANGE_PUBLICATION_APPROVAL	MODIFY_SUBSCRIPTION_APPROVAL		
INITIAL_LOAD_PUBLICATION_ENRICHMENT	NEW_ITEM_PUBLICATION_ENRICHMENT	ITEM_CHANGE_PUBLICATION_ENRICHMENT	DELETE_SUBSCRIPTION_APPROVAL		
INITIAL_LOAD_PUBLICATION_INTERNAL_SYNC	NEW_ITEM_PUBLICATION_INTERNAL_SYNC	ITEM_CHANGE_PUBLICATION_INTERNAL_SYNC	NEW_FILTER_APPROVAL		
INITIAL_LOAD_PUBLICATION_SEND	NEW_ITEM_PUBLICATION_SEND	ITEM_CHANGE_PUBLICATION_SEND	MODIFY_FILTER_APPROVAL		
INITIAL_LOAD_PUBLICATION_SEND	NEW_ITEM_PUBLICATION_SEND	ITEM_CHANGE_PUBLICATION_SEND	DELETE_FILTER_APPROVAL		

BLICATION_SEND_INTERNAL_SYNC_MSG		ERNAL_SYNC ITEM_CHANGE_P UBLICATION_SE ND_INTERNAL_S YNC_MSG ITEM_DELIST_RE VIEW			
<b>UDEX-GPC mapping</b>					
udex_to_gpc_hierarchy_mapping	True/False	The property sets the automating mapping between the UDEX and GPC hierarchy.			
<b>Interoperability related attributes</b>					
Interoperability_UDEX_UK	True/False	If set to true, Interoperability for that datapool is turned on and vice versa.			
Interoperability_SINFOS	True/False				
Interoperability_WWRE	True/False				
<b>Configuring active data pool</b>					
activeDataPool=	Transora Uccnet	Sets the active data pool, queue and the doc store path for the outbound message.			
<b>Setting JMS queue</b>					
SEND_TO_JMS	True/False	If set to True, the generated XML messages will be sent to the messaging queue.			
OutboundQueue	<name of the outbound queue>	This is the name of the queue used for sending the outbound messages.			
InboundQueue		This is the name of the queue used for receiving the inbound messages.			
MsgArchiveDocStorePath	DocstorePath in WebSphere Product Center For example: MsgArchiveDocStorePath = /archive/messages/outbound/	This is the default location for all the generated outbound messages.			
INITIAL_CONTEXT_FACTORY	Example: com.sun.jndi.fscontext.ReffSContextFactory	This is the initial context used by the JMS sender or the JMS receiver.			
QUEUE_CONNECTION_FACTORY					
<b>JMS transport type</b>					
transportType	JMS - 1 HTTP - 2	This is the transport type used by the messaging service. If set to 1 the transport type is JMS, if set to 2 the transport type is HTTP			

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