Basic Settings for the Integration of SAP Extended Warehouse Management
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1 Basic Settings for the Integration of SAP Extended Warehouse Management

To run the business scenario, you set up the integration between SAP Extended Warehouse Management (SAP EWM) and SAP Global Batch Traceability (SAP GBT).

Perform the steps for the integration in the respective system and in the following sequence:

Integration between SAP EWM and SAP GBT

<table>
<thead>
<tr>
<th>Step number</th>
<th>Description</th>
<th>System in which step has to be performed</th>
<th>Link to documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Define logical systems for SAP EWM in SAP GBT.</td>
<td>SAP GBT</td>
<td>Define Logical Systems for SAP EWM in SAP GBT [page 4]</td>
</tr>
<tr>
<td>2</td>
<td>Configure connected logical systems.</td>
<td>SAP GBT</td>
<td>Configure Connected Logical Systems for the SAP EWM Integration [page 5]</td>
</tr>
<tr>
<td>3</td>
<td>Create an inbound web service configuration.</td>
<td>SAP GBT</td>
<td>Create an Inbound Web Service Configuration [page 6]</td>
</tr>
<tr>
<td>4</td>
<td>Create an outbound web service configuration including system connection SAP EWM – SAP GBT.</td>
<td>SAP EWM</td>
<td>Create an Outbound Web Service Configuration Including System Connection SAP EWM – SAP GBT [page 9]</td>
</tr>
<tr>
<td>5</td>
<td>Activate the integration for certain warehouses and parties entitled to dispose in SAP EWM.</td>
<td>SAP EWM</td>
<td>Activate the Integration for Certain Warehouses and Parties Entitled to Dispose in SAP EWM [page 10]</td>
</tr>
<tr>
<td>6</td>
<td>Define variant and schedule transfer jobs.</td>
<td>SAP EWM</td>
<td>Define Variant and Schedule Transfer Jobs [page 11]</td>
</tr>
<tr>
<td>7</td>
<td>Schedule jobs for the collection of events.</td>
<td>SAP GBT</td>
<td>Schedule Jobs for Event Collection [page 7]</td>
</tr>
</tbody>
</table>

Context

- In SAP GBT, create a technical user, which is used for the integration of handling unit data from SAP EWM. The user must have the authorization to post data to the inbound web service in SAP GBT. For more information about creating an RFC user and an ALE remote user in SAP GBT, see .
In SAP GBT, you can monitor a message using transaction code SRT_MONI.

In SAP GBT, application errors during the data integration from SAP EWM are logged in the application log in SAP GBT. To display the application logs, on the SAP Easy Access screen, choose Tools ABAP Workbench Development SAP Business Workflow Utilities Application Log Application Log: Display Logs (alternatively, enter transaction code SLG1).

In SAP EWM, you can use report /SCWM/GBT_R_EVENT_DELETION to remove entries from the SAP GBT transfer tables in SAP EWM.

In SAP EWM, you can extend the existing web service using Business Add-In (BAdI) /SCWM/EX_GBT_BIF_TGM_NO. In Customizing for SAP EWM, choose SCM Extended Warehouse Management Extended Warehouse Management Business Add-Ins (BAdIs) for Extended Warehouse Management Interfaces Enterprise Services GBT-EWM Integration BAdI: Modify Outbound Message Tracked Goods Movement (alternatively, enter transaction code /SCWM/GBT_BIF_TGM_NO).

In the following, a direct integration, that is a point to point integration, of SAP EWM to SAP GBT is described. You can also route messages from SAP EWM to SAP GBT via SAP Process Integration.

1.1 Basic Settings in SAP GBT for the SAP EWM Integration

These guidelines cover all steps that you have to take in the SAP Global Batch Traceability (SAP GBT) system to enable the communication between SAP GBT and SAP Extended Warehouse Management (SAP EWM). For each step, the transaction code is provided, in addition to the usual menu path. Note that the menu paths for these steps may vary depending on the release level of the SAP GBT system. Therefore, it is advisable to use the transaction code to access a configuration activity. Several steps take place in the SAP Customizing Implementation Guide (SAP IMG).

The basic settings in SAP GBT for the SAP EWM integration are the following:

1. Define Logical Systems for SAP EWM in SAP GBT [page 4]
2. Configure Connected Logical Systems for the SAP EWM Integration [page 5]
3. Create an Inbound Web Service Configuration [page 6]
4. Schedule Jobs for Event Collection [page 7]

1.1.1 Define Logical Systems for SAP EWM in SAP GBT

Context

To enable the communication and the data transfer between systems, you define the identification of each system as a unique logical system. In SAP terms, a logical system corresponds to a client. The Application Link Enabling (ALE) business process defines the system in which a particular application is running. You define each client as a logical system by defining logical systems and then assigning the clients to the corresponding logical systems.
Procedure

1. To define the required logical systems in your system environment, in Customizing of SAP GBT choose SAP NetWeaver > Application Server > IDoc Interface / Application Link Enabling (ALE) > Basic Settings > Logical Systems > Define Logical System (alternatively, enter transaction code SALE).

2. Choose New Entries.

3. In the Log. System column, enter a name for the logical system that you want to create.

4. In the Name column, enter a description of the logical system:

<table>
<thead>
<tr>
<th>Logical System</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;Logical system 1&gt;</td>
<td>SAP EWM system</td>
</tr>
<tr>
<td>For example: EWMCLNT001</td>
<td></td>
</tr>
<tr>
<td>&lt;Logical system 2&gt;</td>
<td>SAP GBT system</td>
</tr>
<tr>
<td>For example: GBTCLNT001</td>
<td></td>
</tr>
</tbody>
</table>

5. Save your entries.

1.1.2 Configure Connected Logical Systems for the SAP EWM Integration

Context

Configure different parameters for your connected logical systems to define the RFC destination used for jobs and for the dialog. Furthermore, you can assign a master data system.
Procedure

1. To configure the connected logical systems, on the SAP Easy Access screen choose \Cross-Application Components\ > \SAP Global Batch Traceability\ > \Configuring of Connected Logical Systems\ (alternatively, enter transaction code \GBT/LOGSYS_CONFIG\).
2. Choose \Define\ and select your logical system.
3. Choose \Copy\ and set the parameters for the logical system

For example, set the following parameters for the SAP EWM system \EWMCLNT001:\

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logical System</td>
<td>Name of logical system, which you are defining is automatically added.</td>
</tr>
<tr>
<td>RFC Dest. Jobs</td>
<td>&lt;RFC destination for a job&gt;, for example, \EWMCLNT001\</td>
</tr>
<tr>
<td>RFC Dest. D.</td>
<td>RFC destination for dialogs with named user, for example, \EWMCLNT002\</td>
</tr>
<tr>
<td>Business System</td>
<td>Business system name as defined in the System Landscape Directory (SLD), for example, \EWM_001\</td>
</tr>
</tbody>
</table>

Make sure that the Business System is maintained.

If you configure an SAP EWM system, the system time zone is automatically determined. If you configure another system, maintain a system time zone.

4. Save your entries.

1.1.3 Create an Inbound Web Service Configuration

Context

Configure a web service provider that can be called by a consumer using the SAP ABAP SOA Manager.

Procedure

1. Create an inbound web service configuration for the target inbound web service \TrackedGoodsMovementNotification_In\.
In SAP Global Batch Traceability (SAP GBT), enter transaction code SOAMANAGER. On the Service Administration tab page, choose Web Service Configuration.

2. On the Design Time Object Search tab page, select Service Definition as search criterion for the object type. Enter /GBT/TRACKEDGOODSMOVEMENTNOTIF as search criterion for the object name. Search for and open the /GBT/TRACKEDGOODSMOVEMENTNOTIF service definition.

3. On the Configurations tab page, check if an inbound web service configuration already exists. If not, perform the following:
   1. Choose Create Service.
   2. In the following steps, setup the configuration of the new binding for the service definition. Maintain the configuration according to your requirements, for example, transport level security, authentication method, user, or password. Finish your creation of the binding.

   Here is an example of a configuration for a new binding for the inbound service definition:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport Guarantee</td>
<td>Transport Level: None</td>
</tr>
<tr>
<td>Transport Level Security</td>
<td>SSL (https)</td>
</tr>
<tr>
<td>Message Level Security</td>
<td>None</td>
</tr>
<tr>
<td>Authentication Settings</td>
<td>Authentication Level: Basic</td>
</tr>
<tr>
<td>Authentication Method</td>
<td>No Authentication not chosen</td>
</tr>
<tr>
<td>Transport Channel Authentication</td>
<td>User ID/Password</td>
</tr>
<tr>
<td>Message Authentication</td>
<td>No value chosen</td>
</tr>
</tbody>
</table>

4. On the Configurations tab page, in the Actions column, choose the Open Binding WSDL Generation icon and copy the WSDL URL of the service.

1.1.4 Schedule Jobs for Event Collection

Prerequisites

Before you schedule jobs which collect events from the SAP ERP system that is connected to your SAP Extended Warehouse Management (SAP EWM) system, you make the integration settings in SAP EWM. For more information, see Basic Settings in SAP EWM for the SAP GBT Integration [page 8].
Context

The integration of handling unit data from SAP EWM is based on the integration of batch where-used records from SAP ERP. If the related data from SAP ERP is not yet integrated to SAP Global Batch Traceability (SAP GBT), messages from SAP EWM cannot be processed.

Procedure

1. On the SAP Easy Access screen, choose Tools > ABAP Workbench > Development > ABAP Editor (alternatively, enter transaction code SE38).
2. Enter /GBT/R_EVENT_COLLECTOR as the program name and choose Execute to navigate to the selection screen.
3. Enter one or more logical systems and the package size.

   **Note**
   - If you have more than one SAP ERP system connected, choose Multiple selection and enter all connected logical systems.
   - The package size defines the maximum number of events that are transferred in one package. The default package size is 100.
   - If you want to start this report only once, choose Execute after you have entered the logical systems and package size.

4. Create a variant, and plan your background job to update where-used records at periodic intervals automatically. For testing, you can run the event collector report manually to transfer data once from SAP ERP to SAP GBT.
5. For an overview of your defined background jobs, see System > Services > Jobs > Job Overview.
   1. If necessary define the job status values, job start condition, and job step.
   2. Choose Execute. The system displays a result list with the selected background jobs.

More Information


1.2 Basic Settings in SAP EWM for the SAP GBT Integration

These guidelines cover all steps that you have to take in the SAP Extended Warehouse Management (SAP EWM) system to enable communication between SAP EWM and SAP Global Batch Traceability (SAP GBT). For each step,
the transaction code is provided in addition to the usual menu path. Note that the menu paths for these steps may vary depending on the release level of the SAP EWM system. Therefore, it is advisable to use the transaction code to access a configuration activity. Several steps take place in the SAP Customizing Implementation Guide (SAP IMG).

**Note**

**Before** you make the integration settings in SAP EWM described here, you make the integration settings in SAP GBT. For more information, see Basic Settings in SAP GBT for the SAP EWM Integration [page 4].

The basic settings in SAP EWM for the SAP GBT integration are the following:
1. Create an Outbound Web Service Configuration Including System Connection SAP EWM – SAP GBT [page 9]
2. Activate the Integration for Certain Warehouses and Parties Entitled to Dispose in SAP EWM [page 10]
3. Define Variant and Schedule Transfer Jobs [page 11]

### 1.2.1 Create an Outbound Web Service Configuration Including System Connection SAP EWM – SAP GBT

**Context**

Configure a web service provider that can be called by a consumer using the SAP ABAP SOA Manager.

**Procedure**

   - In SAP Extended Warehouse Management (SAP EWM), enter transaction code SOAMANAGER. On the Service Administration tab page, choose Web Service Configuration.
2. On the Design Time Object Search tab page, select Consumer Proxy as search criterion for the object type. Enter /SCWM/CO_BIF_TGM_NO_OUT as search criterion for the object name. Search for and open the /SCWM/CO_BIF_TGM_NO_OUT consumer proxy.
3. On the Configurations tab page, create a WSDL based configuration of the logical port for the consumer proxy.
   1. Choose Create and select WSDL Based Configuration.
   2. In the Logical Port Name step, enter a logical port name and a description. Set the Logical Port is Default indicator and choose Next.
   3. In the WSDL Information step, select Via HTTP Access as WSDL base and insert your copied WSDL URL (see Create an Inbound Web Service Configuration [page 6] in step four). Enter a user and a password for the WSDL access and choose Next.
4. In the Binding Selection step, choose Next.

5. In the Consumer Security step, enter a user and password to access SAP GBT and choose Next.

6. In the following steps, maintain the configuration according to your requirements, for example, for the HTTP settings or the SOAP protocol.

7. Choose Finish to complete your configuration.

### 1.2.2 Activate the Integration for Certain Warehouses and Parties Entitled to Dispose in SAP EWM

#### Context

You define for which combinations of warehouse and party entitled to dispose SAP Extended Warehouse Management (SAP EWM) transfers handling unit operations as events to SAP Global Batch Traceability (SAP GBT). SAP EWM collects only events related to the registered combinations of warehouse and party entitled to dispose and then transfers them asynchronously to SAP GBT.

#### Procedure

1. In Customizing, choose `SCM Extended Warehouse Management > Extended Warehouse Management > Interfaces > GBT Integration > Register Warehouse and Entitled to Collect Events`.

2. Choose New Entries. Enter the warehouse and party entitled to dispose combinations for which you want to integrate handling unit data to SAP GBT.

   **Note**

   If you want to integrate all handling unit data for a warehouse, enter an asterisk in the `Ent. to Dispose (Party Entitled to Dispose)` column.

3. Save your entries. As a result, from now on in SAP EWM, all relevant handling unit events are logged in the SAP GBT transfer tables.
1.2.3 Define Variant and Schedule Transfer Jobs

Context

Schedule transfer jobs to setup the transfer of data from SAP Extended Warehouse Management (SAP EWM) to SAP Global Batch Traceability (SAP GBT).


Procedure

1. On the SAP Easy Access screen, choose Tools ABAP Workbench Development ABAP Editor (alternatively, enter transaction code SE38).
2. Enter /SCWM/GBT_R_EVENT_TRANSFER as the program name, and choose Execute.
3. Create a variant including at least the package size.
4. Execute your transfer job either as a direct background job or as a scheduled background job.

   To execute the transfer job as a direct background job, choose Program Execute in Background.

   To execute the transfer job as a planned background job, on the SAP Easy Access screen, choose Tools CCMS Background Processing Define Job (alternatively, enter transaction code SM36).

For testing, you can run the program manually and transfer data once to SAP GBT.
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