



ERP-717 System interface - Upload Compliance (EARUS) Classification Codes Descartes to GTS

Status	Approved
Owner	TATARU-ext, Eugenia
Stakeholders	CASTELEIRA, Patricia LIETAERT-ext, Massimo
Jira Request ID	 ERP-496 - Jira project doesn't exist or you don't have permission to view it.
Jira Development ID	 ERP-717 - Jira project doesn't exist or you don't have permission to view it.

High- Level Specification

Implementing System	GTS (S4)
Invoked by	
Business Process Reference	12.02.01.01. Manage Classification Codes

Functional Overview

The functional design of the system interface defines the API to be provided or consumed.

Syensqo uses Descartes (3rd party system) which is the market-leading global trade content for GTS that provides the most current regulatory data for Compliance Classification Codes (Export Control on EARUS). New classification codes are always provided by Descartes on a regular basis via XML files.

The purpose of this system interface is to automatize the process by, uploading the list of EARUS compliance classification codes published by the Government into SAP GTS. The update should occur when a file is provided by Descartes. Updates can be received on a weekly basis, hence the set up of the program will be marked as weekly.

In terms of errors that can occur via the automatic upload, IT GTS users will get a notification within Fiori Launchpad in order to troubleshoot the problem (manual intervention).

The file movement (CPI-S/4) is covered via FS: [ERP-716](#).

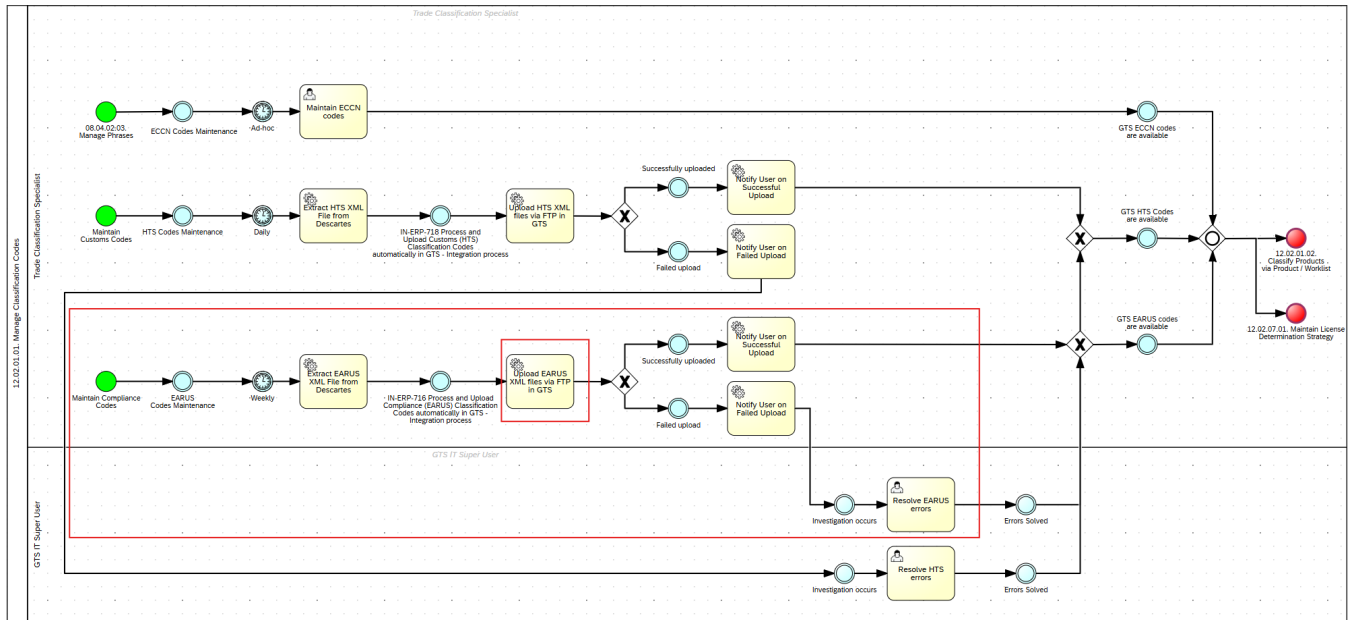
Scope and Objectives

While GTS is the leading system for classification codes and product assignment, this step is the prerequisite before classifying any product and before any export can happen in the system.

The emails that Descartes is sending to GTS IT team with the new classification codes will be replaced by this new automatization which follows one straight objective: to reduce the workload of man/hour which involves emails, dependency on a user action/availability or knowledge transfer within the team.

With the 3 different instances of GTS system for US, China and Rest of World, the EARUS file must be available in all systems for the product-classification codes to happen.

Process Flow Diagram



Step	Description	Comment
1	EARUS XML codes published by Descartes	
2	File interface program to fetch the EARUS XML file and place it in the application server	
3	Upload to GTS system using the standard transaction /n/SAPSL/LLNS_UPL002	Functional Specification will cover this part.
4	Notification is send to the GTS IT users if successful/failed	
5	If upload fails, log the details of the upload and GTS IT users to troubleshoot the error	

Assumptions

1. SAP GTS E4H system will be available at the time of upload.
2. Numbering schemes content & Legal Regulations will be configured in GTS system.
3. Upload logs will be generated.
4. Notification functionality will be handled by standard GTS Fiori Launchpad.
5. Users listed under DL sco-digops-gts@syensqo.com will be used as basis to receive notification via Fiori whenever custom program runs successfully or fails.

Dependencies

Descartes must published first the XML content for EARUS codes.

Security, Integrity and Controls

- Uploading the file to an accessible file server (to be accessed by the Standard Program) is to be done securely through Cloud Connector.
- A GTS technical user will execute the upload transaction on background
- In case of manual intervention due to error, GTS IT Super user would manually upload the EARUS classification codes using the same standard transaction as per L4 process.

Configuration Requirements

You have made the following settings in Customizing for the GTS system:

- You have defined numbering schemes content in Customizing for the general settings. The numbering scheme contains the underlying structure for the numbers.
- You have defined and configured the necessary legal regulations in Customizing and activated them for the application areas.
- You have set up system communication.
- You transferred products from your feeder system to the GTS system.

Special Requirements

Overwriting should be possible. Whenever there is an emergency and cannot wait for the interface program to run, the GTS IT user can login to the FTP server, download the XML file and then upload the file to GTS manually.. However, at the next run of the program this should overwrite the entries stated by the GTS IT user.

Design Rationale

Existing process is manual XML upload of ECCN codes for the Legal Reg. EARUS on a regularly basis and it needs to be replaced by this automated solution.

Variant for the file weekly upload program of /SAPSL/LLNS_UPL002 (/SAPSL/NSC_NUM_UPLOAD_002).

Number specific-parameters:

- Data Provider: Descartes
- Numbering schemes content: ECCN**

Application Servers:

- Path of number file: application server.

General Control Parameters:

- Package check active: ticked
- Update Schema definition: ticked
- Simulation Mode: only when is controlled manually or testing purposes.

Additional explanation on some of the mentioned fields:

- Path of Number files This is the path taken from the APP server.
- Package Check Active If this indicator is active a new version can only be loaded if all packages or files were loaded successfully for the previous version. If is deactivated you can upload a new version, although the previous version was not loaded completely (not recommended).
- Update Schema Definition Displays whether scheme definitions are to be transferred from the upload file.
- Simulation Mode If this indicator is selected, processing is only performed in the simulation mode and results cannot be updated to the database.

The screenshot shows the SAP 'Load Control Classes (ECCN) from File' interface. At the top, there is a navigation bar with the SAP logo and the title 'Load Control Classes (ECCN) from File'. Below the navigation bar, there are several sections for configuring the upload process:

- Number-Specific Parameters:** This section contains two input fields: 'Data Provider:' with a dropdown menu and a search icon, and 'Numbering Scheme Content:' with a text input field.
- Local Data Medium:** This section contains a 'Path of Number File:' input field and a checkbox labeled 'Multiple Files Chosen'.
- Application Servers:** This section contains a 'Path of Number File:' input field.
- Languages:** This section contains a 'Select Languages for Upload:' checkbox and a search icon.
- General Control Parameters:** This section contains three checkboxes: 'Package Check Active:' (checked), 'Update Schema Definition:' (checked), and 'Simulation Mode:' (checked).

API Use

CPI part of Jira [ERP-716](#) will trigger the custom proxy once the file has been picked successfully from Descartes site.

Data Structure

N/A

The following fields will be used to provide the required data structure of the interface:

Parent	Field	Description	Mandatory (Y/N)	Data Type

Calculation and Validation

N/A

Parent	Field	Rule Type	Rule Instruction

Processing Logic

Once the XML files are fetched from the Data Provider, these will be uploaded to GTS system using standard transaction /n/SAPSL/LLNS_UPL002. This program will be scheduled to run once a week (date & time TBD).

Delta or Full Load Requirements

First upload will be considered the initial upload for EARUS XML classification codes full upload.

After that, the rest are considered delta, whenever new codes shows up or changes.

Interface Alert & Monitoring

A notification via Fiori Launchpad (standard) is send to the GTS IT user if any error occurs during file upload in GTS, but also if upload was successfully executed.

Users listed under DL sco-digops-gts@syensqo.com will be added to a custom maintenance table (SM30) that can be maintained by Syensqo IT via custom business configuration:

Key fields	Data Element	Data Type	Length
Client	MANDT	CLNT	3
User ID	SYUNAME	CHAR	12

Language Requirements

English

User Interface Requirements

Volumetrics

Frequency is weekly. Size is around 300K.

Performance Consideration

For the XML size during upload, reach out to the owner of the FS to get the details to login to Descartes website and to do the technical check.

Error Handling

When a file has errors during upload the file is not archived from the directory. A notification is sent to the GTS IT user to check the error. Worst case, the user must upload manually the XML and do correction manually in GTS.

If no file found the customs program will stop with an error ending the program.

Log requirements:

1. Upload- File error when moving file from FTP site to Application server notification via Fiori Launchpad to the GTS IT users
2. No file available at the time when the custom program is scheduled to run End program.

Testing

How to Test

Test Conditions and Expected Results

ID	Condition	Expected Results
1	Custom proxy to be executed to fetch the file from the file server and upload to GTS	File should be fetched from file server. Call standard program and upload the file to GTS system.
2	Upload an error file	File upload produces error and a notification to be triggered to users listed under DL sco-digops-gts@syensqo.com
3	Errors can occur during the upload to GTS. Several scenarios: <ol style="list-style-type: none">1. <i>Incorrectly linked legal regulations</i>2. <i>Locked material master</i>3. <i>Incorrect plant extension</i>4. <i>Unit of measure (UoM) issues</i>	<ol style="list-style-type: none">1. The same ECCN scheme may be assigned to different legal regulations, but if the material is classified only once, it won't allow for different classifications for each regulation.<ul style="list-style-type: none">• Solution: Copy the existing ECCN scheme to a new one (e.g., a "Z*" zone) and assign this new scheme to the second legal regulation.2. The material master in the feeder system (like ECC) is locked, which prevents data from being transferred correctly.<ul style="list-style-type: none">• Solution: Unlock the material master before uploading.3. The material is not extended to the specific country plant for which you are classifying in GTS.<ul style="list-style-type: none">• Solution: Extend the material master to the relevant plant in the country where the classification is being applied.4. The commodity code has an external UoM that is mapped to a SAP unit, but this unit is not correctly converted in the material master.<ul style="list-style-type: none">• Solution: Ensure the unit of measure conversions are correctly configured in the material master.

Test Considerations/Dependencies

Test the file interface program [ERP-716](#) and then test this interface.

Other Information

Development Details

Package

Package Name	Parent Package

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Other Development Objects

Object Type	Object Name	Purpose/High Level Logic	Design Rationale Reference

Appendix

See also

File **Modified**

No files shared here yet.



Change log

Version	Published	Changed By	Comment
CURRENT (v. 17)	Dec 16, 2025 08:28	TORRES-ext, Benedict	Added security details
v. 16	Dec 08, 2025 08:23	TATARU-ext, Eugenia	
v. 15	Dec 01, 2025 09:12	TATARU-ext, Eugenia	
v. 14	Nov 25, 2025 15:59	TATARU-ext, Eugenia	
v. 13	Nov 12, 2025 14:26	MCARTHUR-ext, Richard	
v. 12	Nov 12, 2025 14:26	MCARTHUR-ext, Richard	
v. 11	Nov 12, 2025 13:33	MCARTHUR-ext, Richard	
v. 10	Nov 12, 2025 12:11	TATARU-ext, Eugenia	
v. 9	Nov 07, 2025 08:18	TATARU-ext, Eugenia	
v. 8	Oct 31, 2025 15:32	TATARU-ext, Eugenia	

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Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

Mar 30, 2026	Actor	Type	Activity	Version
Approved	 NARAHARI-ext, Bhargavi	State	changed state to Approved at 5:17 am	v17
Lead Approval	 NARAHARI-ext, Bhargavi	State	gave <i>POD Lead Review</i> approval at 5:17 am	
Dec 16, 2025				

 TORRES-ext,
Benedict

Edit updated the page at 8:28 am

Added security details

State changed expiry date to '23 Dec, 2025 07:29 am' at 7:29 am

State changed state to [Lead Approval](#) at 7:29 am v17

Edited following Tech
Review

 TORRES-ext,
Benedict

State gave *Minor change* approval at 7:29 am

*Minor changes to security as discussed
with security team*

State changed state to [Edited following Tech Review](#) at 7:28 am v17

Dec 09, 2025

[Lead Approval](#)

 TORRES-ext,
Benedict

State changed expiry date to '16 Dec, 2025 01:01 pm' at 1:01 pm

State changed state to [Lead Approval](#) at 1:01 pm v16