

# SAP NETWEAVER - TRANSPORT MANAGEMENT

## Advertisements

Transport Management System (TMS) is one of the key components in the SAP system and is used to control the new requests, to monitor the changes such as who has implemented the changes, as well as defining and configuring system landscape in SAP environment.

Transport Management System consists of 3 parts –

- **Change and Transport Organizer (CTO)**

**Transaction: SE01**

This is used to manage, configure the changes in SAP repository and other objects. This provides a central environment for the development and configuration projects. (<https://wiki.scn.sap.com>)

- **Transport Management System**

This is used to manage, control, and copy the development objects and for the customization to perform in SAP system landscape, using transport routes configured with RFC Connections. This includes exporting the objects from one SAP system and importing to the target system.

- **Tools**

Tools are part of SAP Kernel and are used to manage R3trans and transport control program.

**R3trans** is known as SAP system transport, which is used to transport the objects between different SAP systems. It is called with transport control program (**tp**) or by using SAP upgrade utilities.

Transport control program is used to support data and object transport between different systems running on a different platform and also on a different database.

## Configuring Transport Management

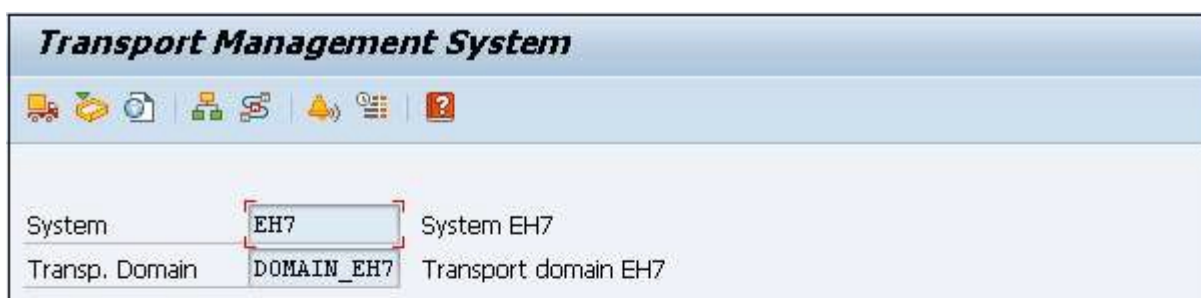
Transport management is one of the key components in the SAP system landscape.

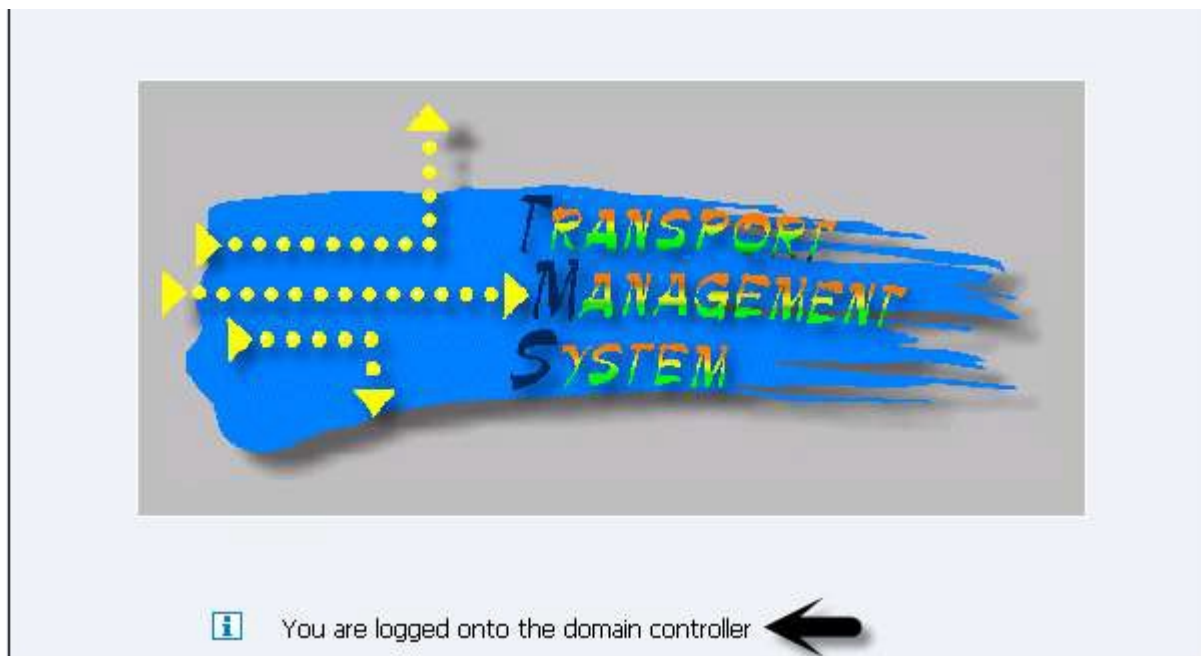
### Transport Domain Controller

This is used to manage all TMS configuration details. Any changes to configuration setting are distributed to all the systems. To set up the Domain controller, use **Transaction: STMS**

In case, SAP system doesn't have a Domain Controller, you will be prompted to create a new one. Transport domain includes the following activities to be performed –

- User creation TMSADM
- RFC connection and request creation, TMSADM is used to login to the target system
- DOMAIN.CFG file is created under usr/sap/trans/bin directory, which stores TMS configuration and is used by systems and domains for checking the existing configurations.





## Adding a System to the Transport Domain

To add a system, log on to the SAP system that you want to add to the system. Use **client 000** and start **transaction STMS**. If the system is not added, TMS will check the configuration file **DOMAIN.CFG** and will ask to join the domain. Click “Select the proposal” and save. The System will remain in the ‘Waiting’ status initially.

To complete the task → login to Domain Controller System → Transaction STMS → Go to Overview → Systems.

You can see the new system that will be available. Go to SAP System → Approve.

The screenshot displays three overlapping SAP windows:

- Top Window:** The command field contains 'STMS', indicated by a red box and a black arrow.
- Middle Window:** The 'Overview' tab is active, and the 'Systems' menu option is highlighted in yellow. Other options include Imports (F5), Worklist (F6), Transport Routes (Shift+F7), and Exit (Shift+F3).
- Bottom Window:** The 'SAP System' menu is open, with 'Approve' selected at the bottom. The system name 'EH7' and transport domain 'DOMAIN\_EH7' are visible in the interface.

N	Lock	F9	01.09.2015 12:23:39		
	Unlock				
	Update Configuration	Ctrl+F2	Release	Status	Conf
	Delete	Shift+F2	740		
	Exit	Shift+F3			

## Managing Transport Routes

**Transport routes** are defined as routes that are defined by the SAP Administrator to transmit the changes between different SAP systems.

You can define two types of transport routes –

- Consolidation (From DEV to QAS) – Transport layers are used
- Delivery (From QAS to PRD) – Transport layers not required

## Transport Request

**Transport request** contains the number of changes to be implemented in the development system. It consists of the type of change, purpose, change category, target system and other details.

Transport request are named in a standard format as – <SID>K<Number>

### Example

**SID** represents System ID

**K** stands for fixed keyword/alphabet

**Number** can be anything from a range starting with 900001

There are two request types that can be created in the SAP system –

- **Workbench Request** – This request type is used to contain the repository and cross-client customizing objects. Workbench requests are used to make changes in the ABAP workbench objects.
- **Customizing Request** – This request type is used to contain objects that belong to client-specific customizing. These requests are created in the system automatically when a user customizes the setting and a target system is automatically assigned as per the transport layer.

**Transport Organizer (Extended View)**

Display | Transports | Piece Lists | Client | Delivery Transp.

User: HANAUSER

Request Type

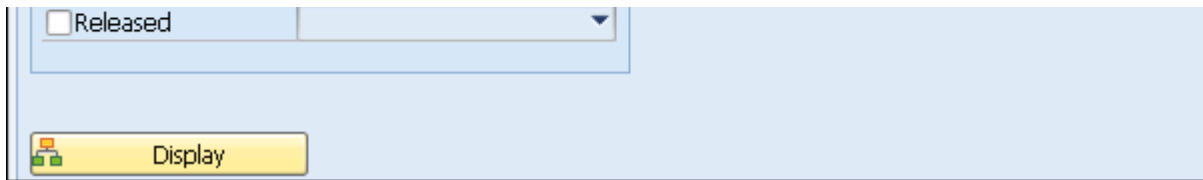
- Customizing Requests
- Workbench Requests
- Transport of Copies
- Relocations

Request Status

- Modifiable

Global Information

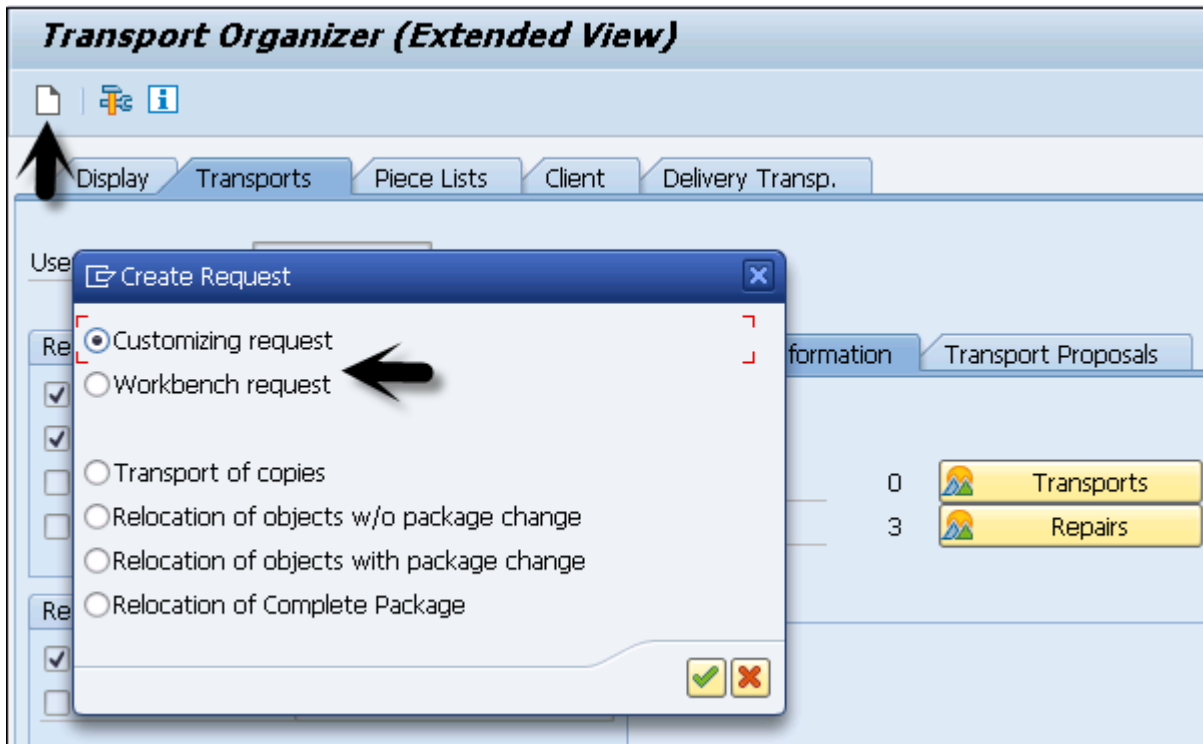
	0	Transports
	3	Repairs



To create a Transport request, use **Transaction SE01**

Transport request can be created in two ways –

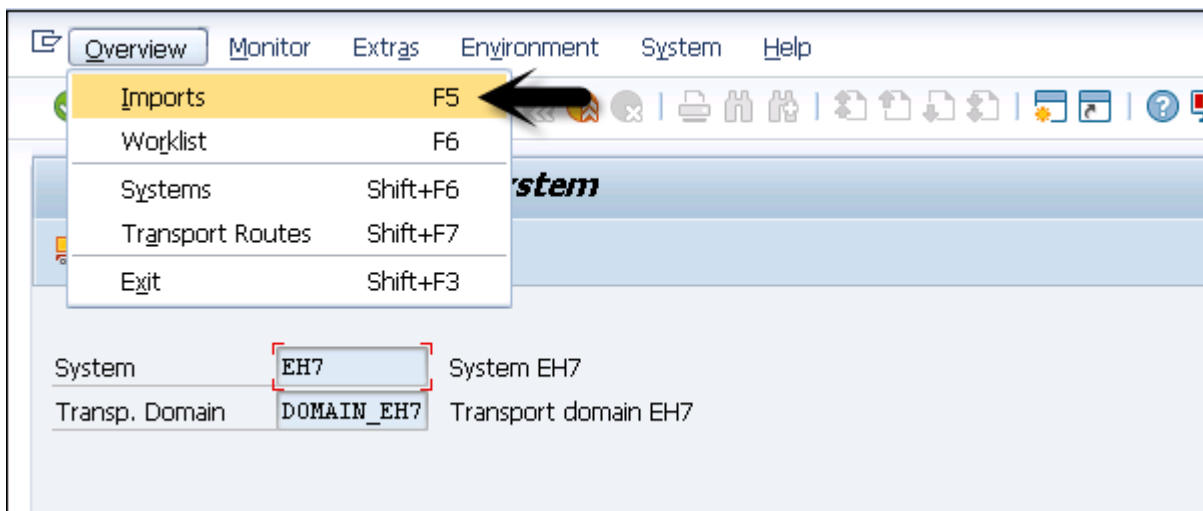
- **Automatic** – It is created automatically.
- **Manual** – You can also create a Transport request manually.



## Import/Export of Objects in the Transport System

Once the Transport request is completed in the source system, you have to export the request from the source system and import it to the target system. To perform the import, you have to select the import queue.

Run the Transaction STMS → Import or you can go to the Overview tab at the top → Imports.

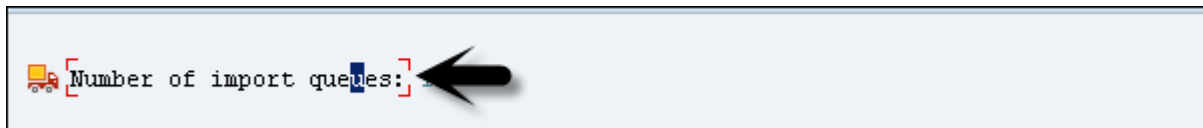


You can see a list of systems in the current domain, description, and the number of requests available in the Import Queue and the status.

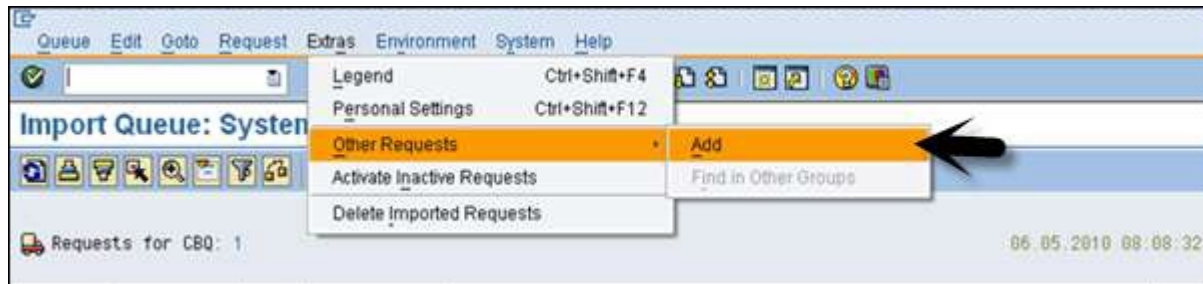
<b>Import Overview: Domain DOMAIN_EH7</b>	
Queue	Description
EH7	System EH7

## Import Queue

This list contains Transport requests in the directory that are ready to import to the target system.

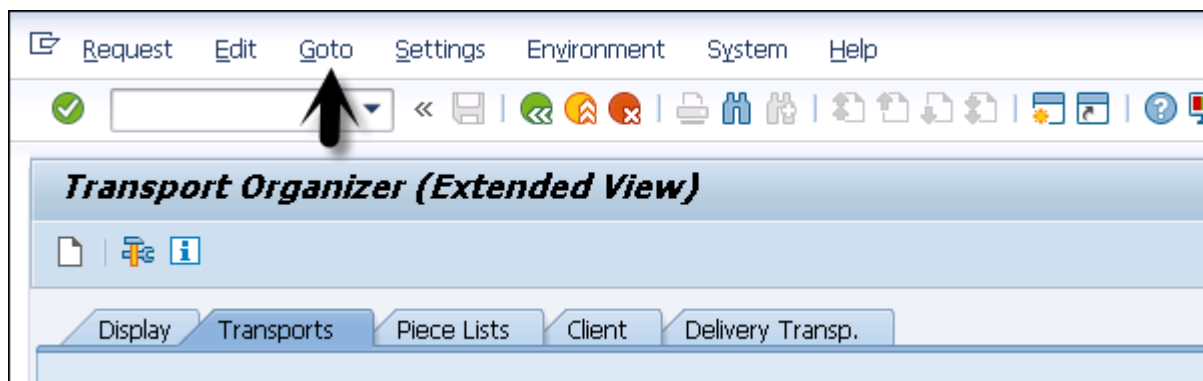


To add a request manually, you can go to Extras → Other Requests → Add. You should know the name of the Transport request.



## Transport Request Logs

You can also check the logs once the transport request is completed. To check the logs, Transaction SE01 → Goto → Transport Logs.



Following two types of logs are available in the Transport Management System –

- **Transport Log** – It keeps track of the transport log files which has been moved in a transport request.
- **Action Log** – It includes the details of action logs that has been performed in a transport request. It includes exports, imports, etc.

## Log Record Value

Following log record value exists in the Transport Management System –

- **0** – This value represents that export was successful.

- **4** – This value represents that a warning was issued and the objects were transported successfully.
- **8** – This represents that a warning was issued and at least one object could not be transported.
- **12 or higher** – This value represents an error in the transport request and it is normally not resulted because of the objects in Transport Request. This occurs probably due to the system failure.