

How to Create a Logical System in SAP

This guide walks you through how to create a logical system in SAP using transaction code [BD54](#), and then assign that logical system to a specific client using transaction code [SCC4](#). Following these steps ensures your logical system is correctly configured and linked to the target client.

Prerequisites

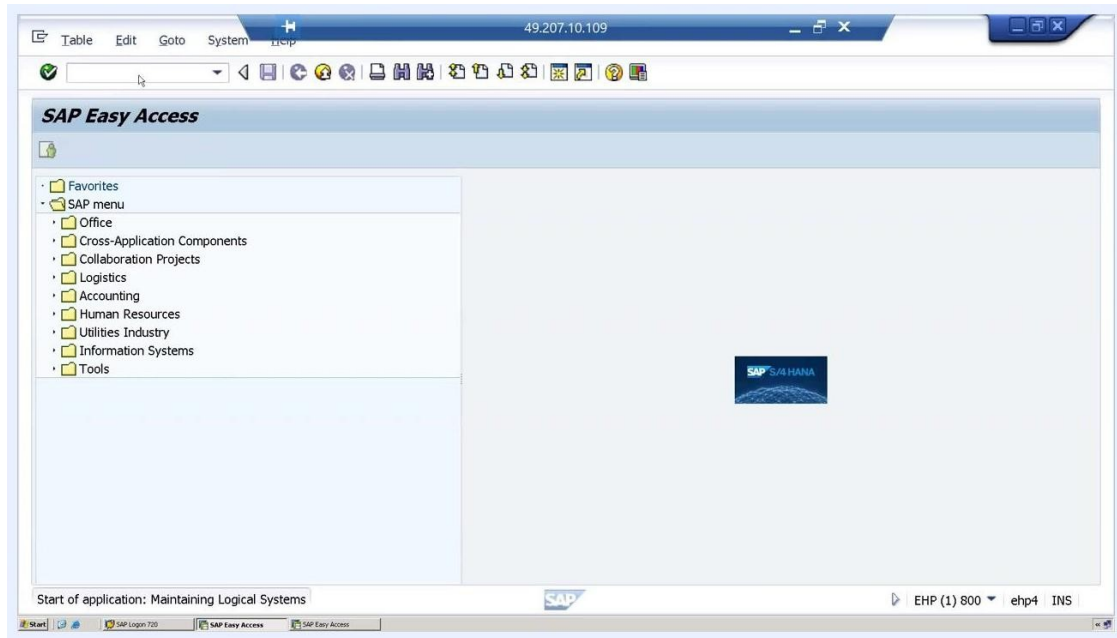
- Access to the SAP Logon application with valid system connection details.
- A user ID and password with sufficient authorization to create and modify logical systems (the SAP* user is restricted from making these changes).
- Knowledge of the system ID (SID) and client number for which you are creating the logical system.

Step 1: Log in to the SAP system

Open the SAP Logon application and connect to your SAP system. Enter your client, user ID, and password as required to complete the login.

Step 2: Access the SAP Easy Access screen

After logging in, confirm you are on the **SAP Easy Access** screen. The left panel displays the SAP menu, including folders such as Office, Logistics, Accounting, and Human Resources.



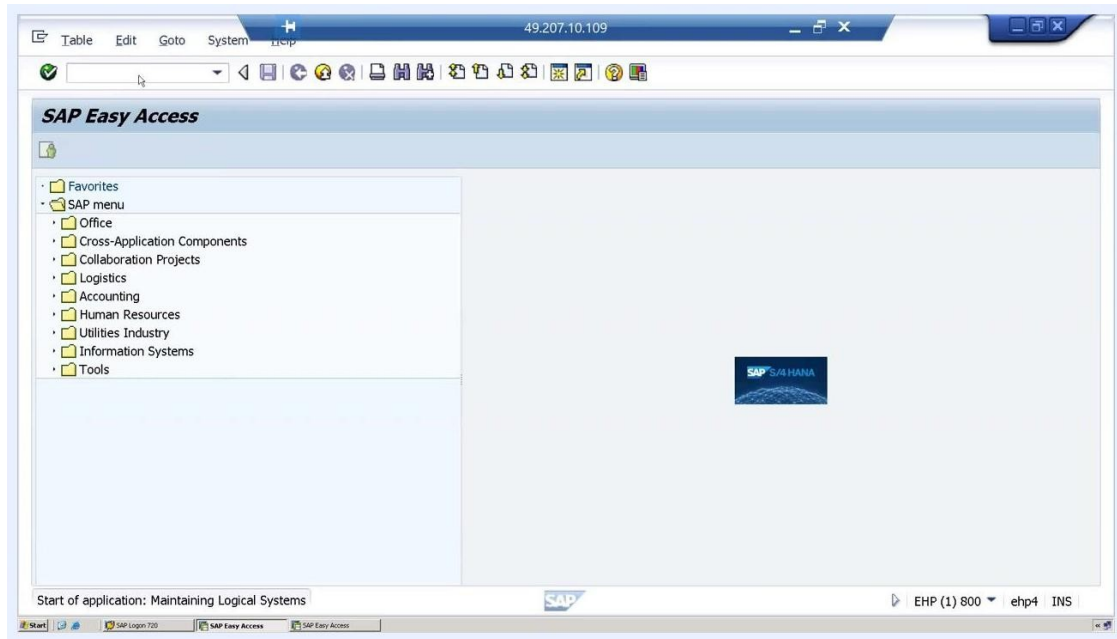
SAP Easy Access screen showing the main menu and navigation panel

Step 3: Enter the transaction code to maintain logical systems

In the command field at the top of the screen, type **BD54** and press Enter. This transaction code is used to maintain logical systems in SAP.

Step 4: Resolve user permission errors

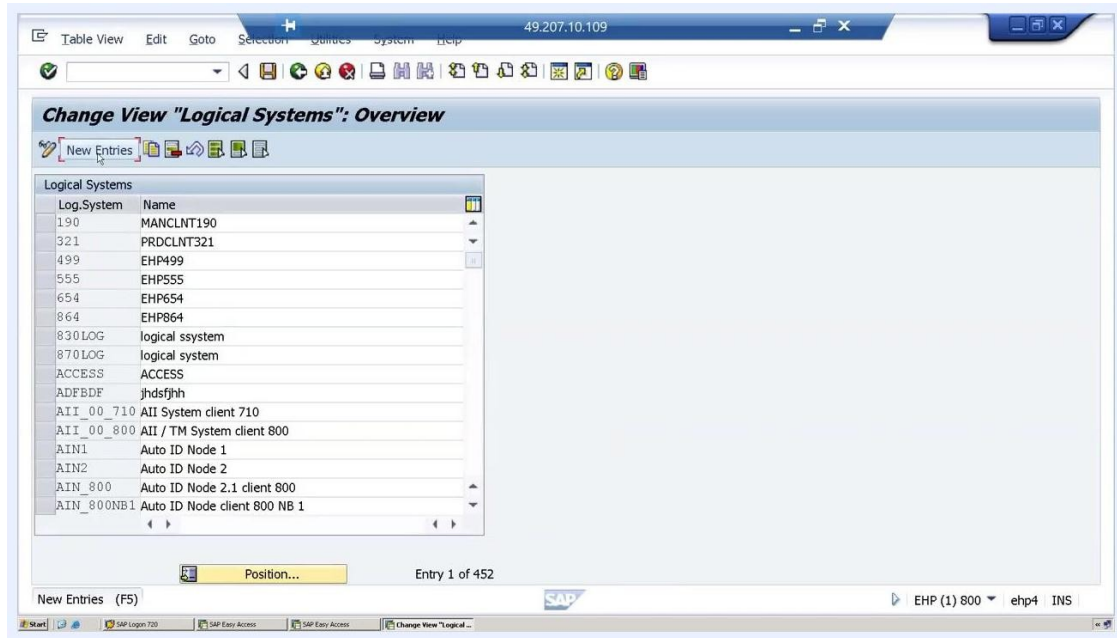
If you are logged in with the SAP user, you will see the error message: "No changes for user SAP allowed. Choose 'Display object' or 'Cancel'." If this occurs, log out and log in again with a user ID that has the necessary permissions.



Error dialog stating that no changes for user SAP* are allowed, with options to display the object or cancel

Step 5: Log in with a different user

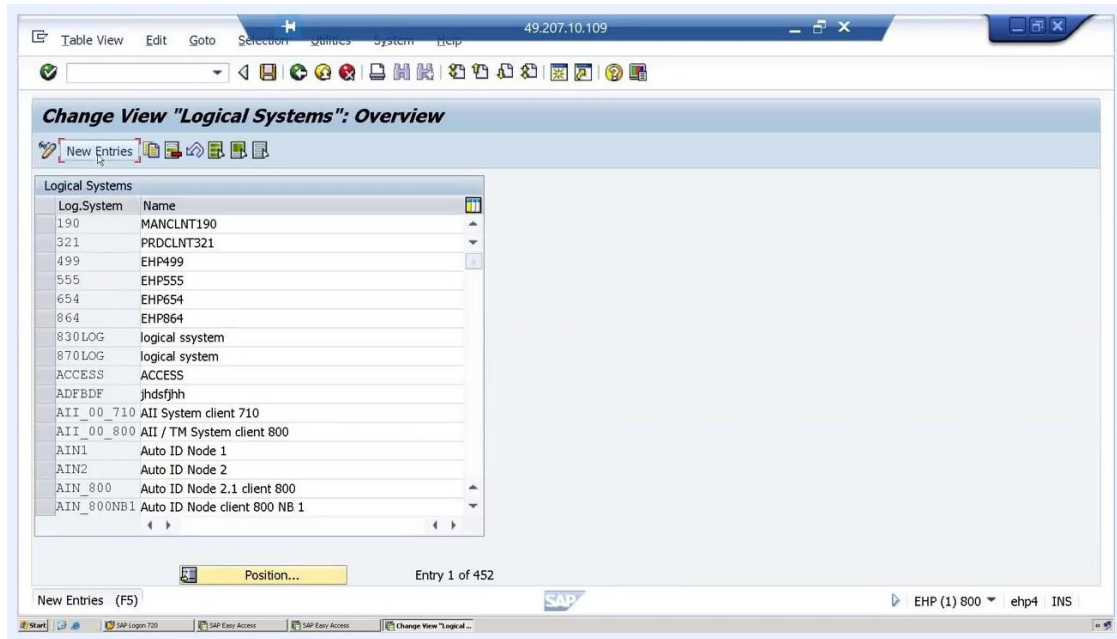
Return to the SAP Logon screen and enter the client, user ID, and password for a user with sufficient permissions to proceed.



SAP login screen with fields for Client, User, Password, and Language, along with an information box about password attempts

Step 6: Navigate to the logical systems overview

After successfully logging in, enter transaction code **BD54** again. The **Change View 'Logical Systems': Overview** screen appears, listing existing logical systems. Click **New Entries** at the top left to add a new logical system.



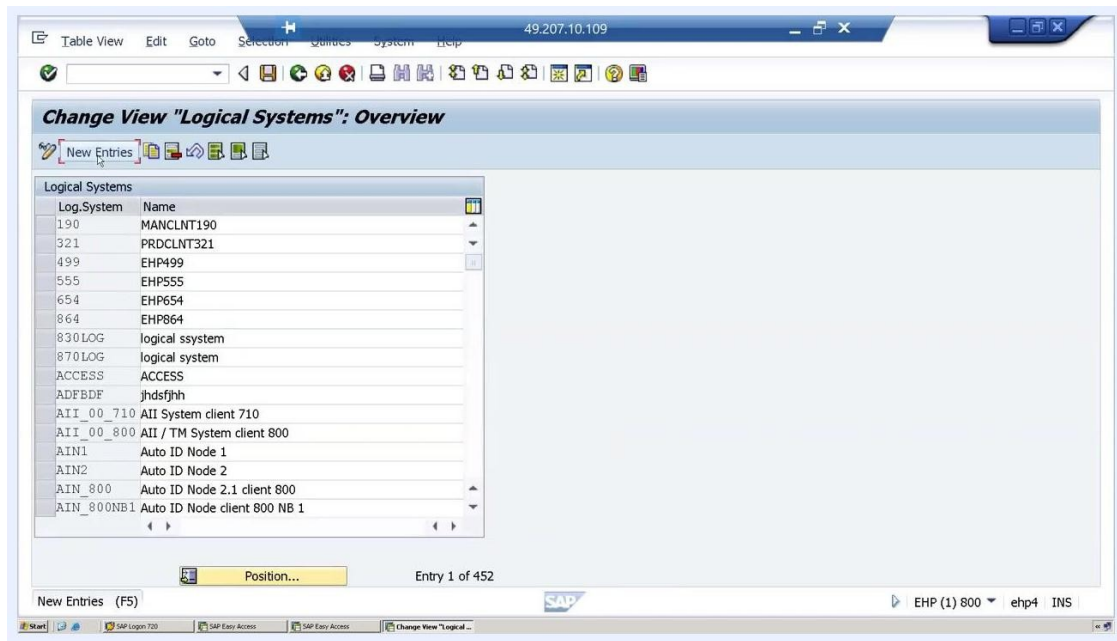
Logical Systems overview screen with the New Entries button highlighted

Step 7: Enter the details for the new logical system

On the **New Entries: Overview of Added Entries** screen, enter the following details:

- **Log.System:** Enter the logical system name using the naming convention `[SID]CLNT[Client Number]`. For example, `EHPC1NT778` represents system ID `EHP` and client `778`.

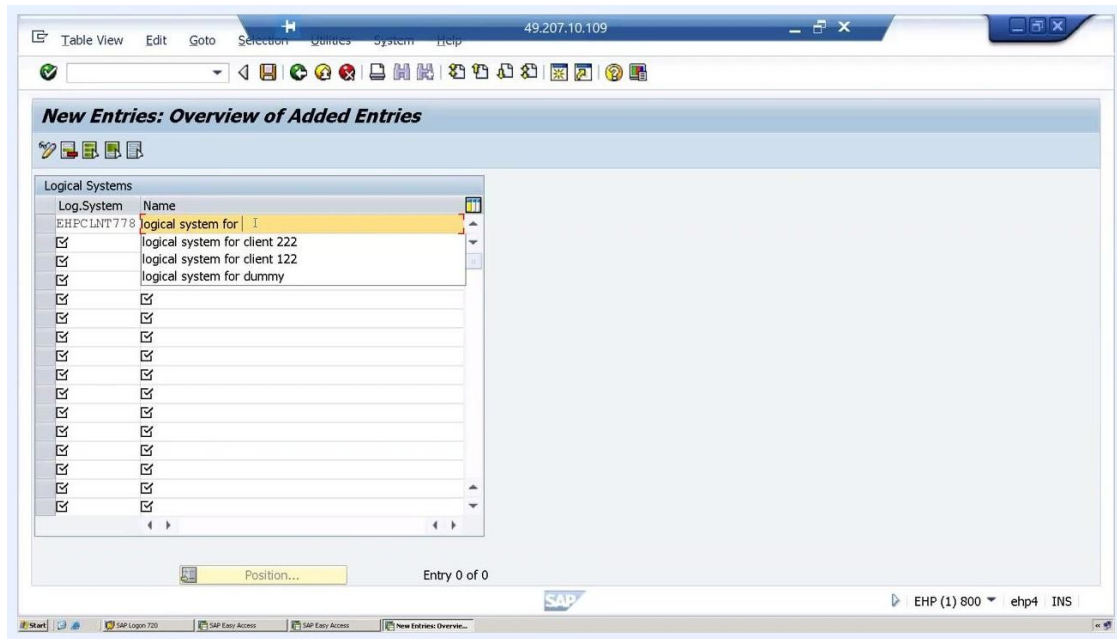
- **Name:** Enter a description, such as "logical system for client 778."



New Entries screen with the logical system name and description fields being filled in

Step 8: Save the new logical system

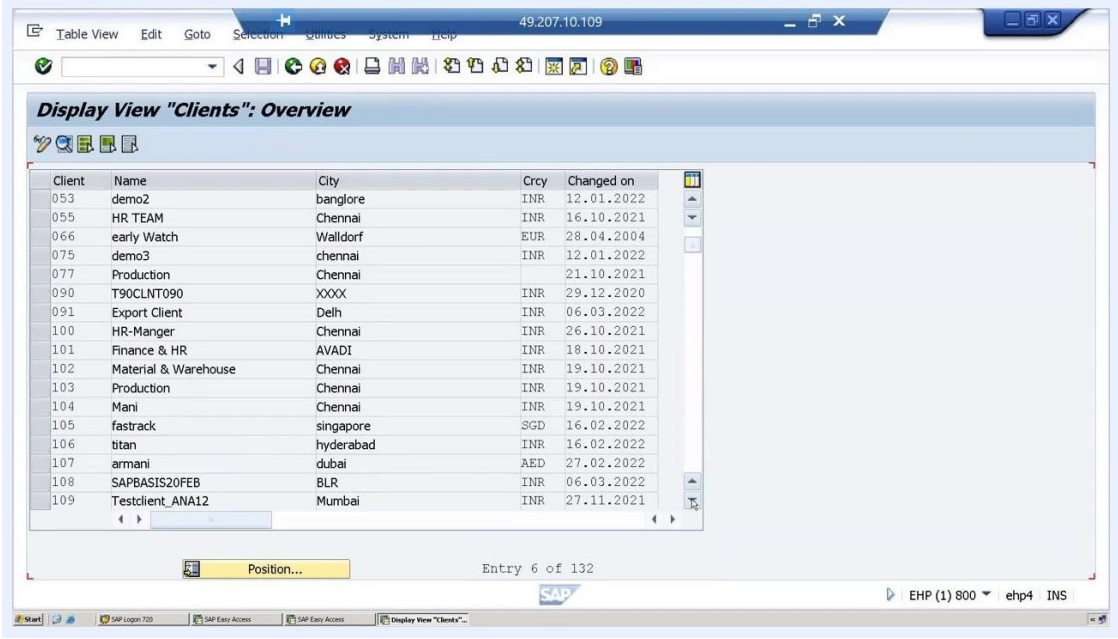
Confirm that you have entered the logical system name (for example, [EHPC1NT778](#)) and description (for example, "logical system for client 778") on the **New Entries: Overview of Added Entries** screen. Click the Save icon (diskette) to save the entry. If prompted, proceed to create a Workbench request.



New logical system entry being saved with the description "logical system for client 778"

Step 9: Create a Workbench request

In the **Prompt for Workbench request** dialog, enter a short description, such as "logical system for client 778," in the **Short Description** field. Confirm the owner, source client, and target system as displayed, then click the Save icon to continue.



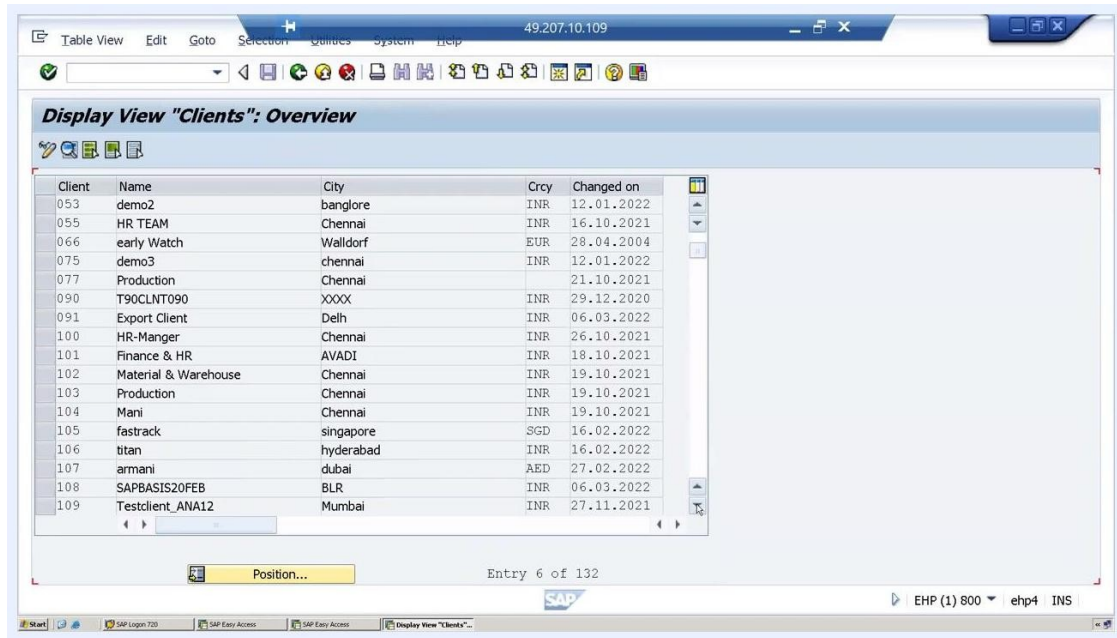
The screenshot shows the SAP Display View 'Clients': Overview. The table lists clients with their IDs, names, cities, currencies, and change dates. Client 778 is highlighted in blue.

Client	Name	City	Crcy	Changed on
053	demo2	banglore	INR	12.01.2022
055	HR TEAM	Chennai	INR	16.10.2021
066	early Watch	Walldorf	EUR	28.04.2004
075	demo3	chennai	INR	12.01.2022
077	Production	Chennai	INR	21.10.2021
090	T90CLNT090	XXXX	INR	29.12.2020
091	Export Client	Delh	INR	06.03.2022
100	HR-Manger	Chennai	INR	26.10.2021
101	Finance & HR	AVADI	INR	18.10.2021
102	Material & Warehouse	Chennai	INR	19.10.2021
103	Production	Chennai	INR	19.10.2021
104	Mani	Chennai	INR	19.10.2021
105	fastrack	singapore	SGD	16.02.2022
106	titan	hyderabad	INR	16.02.2022
107	armani	dubai	AED	27.02.2022
108	SAPBASIS20FEB	BLR	INR	06.03.2022
109	Testclient_ANA12	Mumbai	INR	27.11.2021

Workbench request dialog showing "logical system for client 778" as the short description

Step 10: Confirm the logical system was created

After saving, verify that your logical system appears in the overview list with the correct name and description. Look for a confirmation message, such as "Data was saved," at the bottom of the screen.



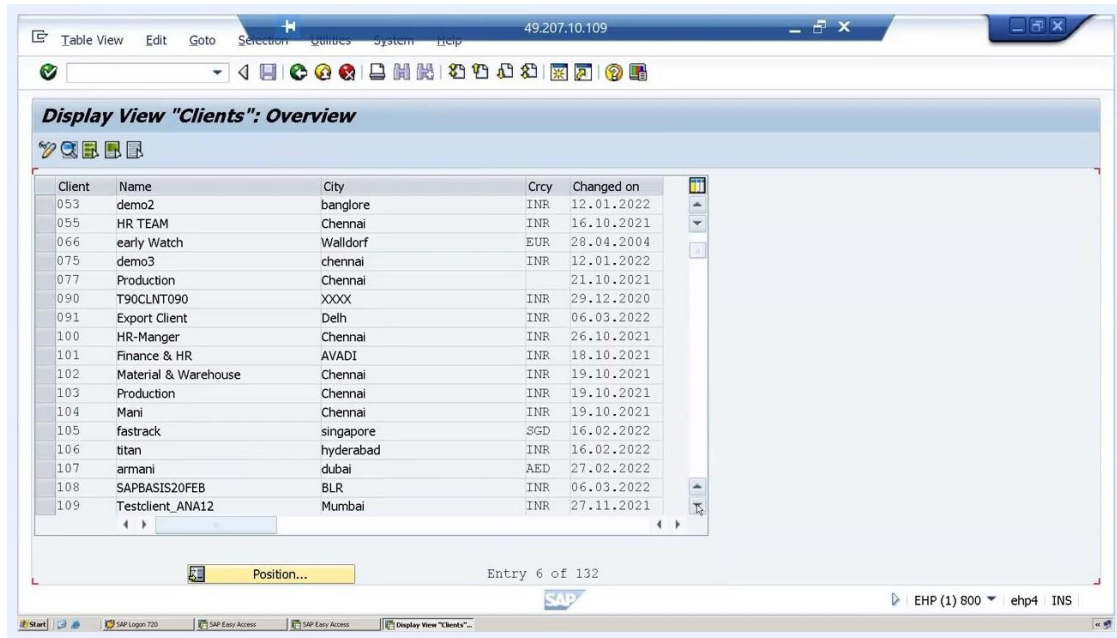
The screenshot shows the SAP Display View 'Clients': Overview. The table lists various clients with their IDs, names, cities, currencies, and change dates. The client 'demo2' (ID 053) is highlighted in blue. The status bar at the bottom indicates 'Entry 6 of 132' and 'EHP (1) 800 ehp4 INS'.

Client	Name	City	Crcy	Changed on
053	demo2	banglore	INR	12.01.2022
055	HR TEAM	Chennai	INR	16.10.2021
066	early Watch	Walldorf	EUR	28.04.2004
075	demo3	chennai	INR	12.01.2022
077	Production	Chennai		21.10.2021
090	T90CLNT090	XXXX	INR	29.12.2020
091	Export Client	Delh	INR	06.03.2022
100	HR-Manger	Chennai	INR	26.10.2021
101	Finance & HR	AVADI	INR	18.10.2021
102	Material & Warehouse	Chennai	INR	19.10.2021
103	Production	Chennai	INR	19.10.2021
104	Mani	Chennai	INR	19.10.2021
105	fastrack	singapore	SGD	16.02.2022
106	titan	hyderabad	INR	16.02.2022
107	armani	dubai	AED	27.02.2022
108	SAPBASIS20FEB	BLR	INR	06.03.2022
109	Testclient_ANA12	Mumbai	INR	27.11.2021

Logical system EHPC1NT778 with description "logical system for client 778" saved and listed in the overview

Step 11: Navigate to client assignment

To assign the logical system to a specific client (for example, client 778), use transaction code **SCC4** to open the **Display View 'Clients': Overview** screen. Scroll through the list to locate the target client.



Client	Name	City	Crcy	Changed on
053	demo2	banglore	INR	12.01.2022
055	HR TEAM	Chennai	INR	16.10.2021
066	early Watch	Walldorf	EUR	28.04.2004
075	demo3	chennai	INR	12.01.2022
077	Production	Chennai		21.10.2021
090	T90CLNT090	XXXX	INR	29.12.2020
091	Export Client	Delh	INR	06.03.2022
100	HR-Manger	Chennai	INR	26.10.2021
101	Finance & HR	AVADI	INR	18.10.2021
102	Material & Warehouse	Chennai	INR	19.10.2021
103	Production	Chennai	INR	19.10.2021
104	Mani	Chennai	INR	19.10.2021
105	fastrack	singapore	SGD	16.02.2022
106	titan	hyderabad	INR	16.02.2022
107	armani	dubai	AED	27.02.2022
108	SAPBASIS20FEB	BLR	INR	06.03.2022
109	Testclient_ANA12	Mumbai	INR	27.11.2021

Display View 'Clients': Overview screen showing a list of clients with details such as Client, Name, City, Currency, and Changed On date

Step 12: Switch to change mode

If the client overview opens in display mode, switch to change mode to enable editing. Use the **Change View 'Clients': Overview** screen and scroll again to locate the target client (for example, 778).

Change View "Clients": Overview

Client	Name	City	Crpy	Changed on
008	DEV	Hyderabad	INR	09.03.2022
009	Test Client	Pune	INR	17.03.2022
011	developpe	kadapa	INR	16.03.2022
032	lk	mysore	INR	16.02.2022
044	CCC	chennai	INR	24.11.2021
053	demo2	banglore	INR	12.01.2022
055	HR TEAM	Chennai	INR	16.10.2021
066	early Watch	Walldorf	EUR	28.04.2004
075	demo3	chennai	INR	12.01.2022
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103	Production	Chennai	INR	19.10.2021
104	Mani	Chennai	INR	19.10.2021

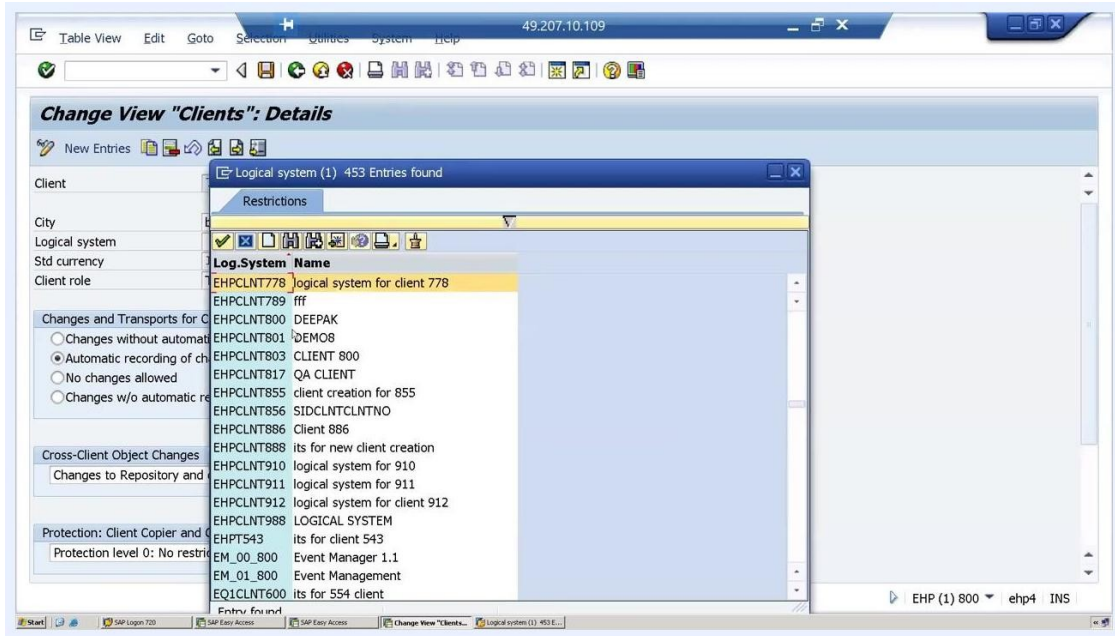
Position... Entry 1 of 132

SAP EHP (1) 800 ehp4 INS

Change View 'Clients': Overview screen with an editable client list

Step 13: Select the logical system for the client

On the **Change View 'Clients': Details** screen, click the input field next to **Logical system** to open the list of available options. A pop-up window titled "Logical system (1) 453 Entries found" appears, displaying all available logical systems. Scroll through the list, locate the logical system you created (for example, [EHPCLNT778](#) with the description "logical system for client 778"), and click to select it.



Pop-up window listing logical systems, with EHPCLNT778 and its description highlighted for selection

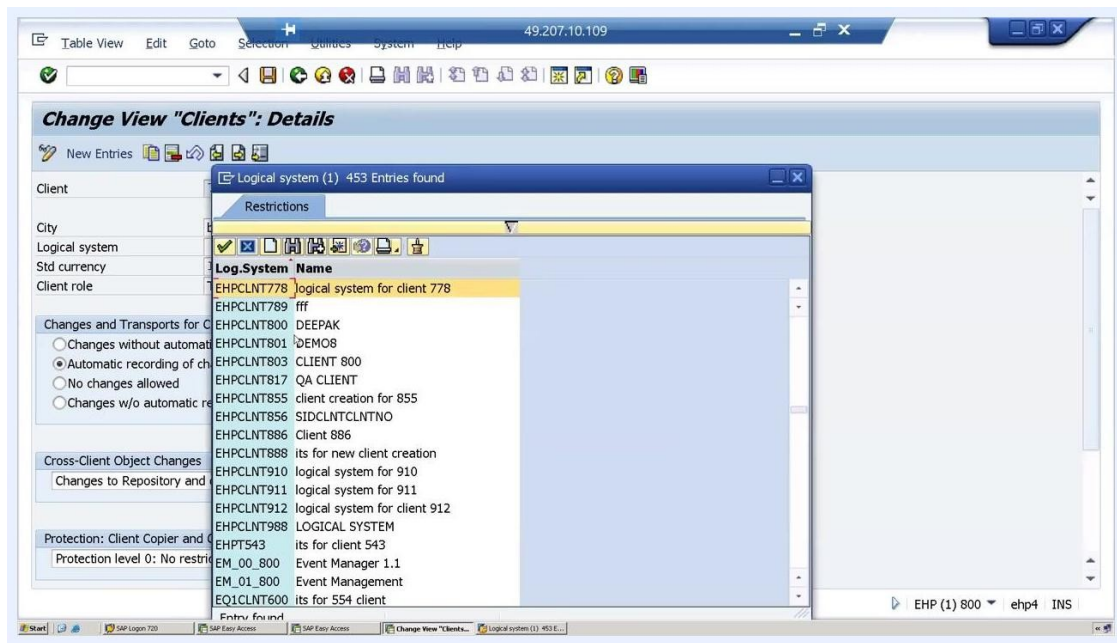
Step 14: Confirm and save the assignment

After selecting the logical system, confirm that the **Logical system** field for the client (for example, client 778) is populated with the correct value (for example, [EHPCLNT778](#)). Review the other client details:

- Client: [778](#)
- Name: [ICICI](#)
- City: [bangalore](#)
- Std currency: [INR](#)
- Client role: [Test](#)
- Last Changed By: [BASIS8](#)
- Date: [13.04.2022](#)

Under **Changes and Transports for Client-Specific Objects**, verify that the appropriate option is selected (for example, "Automatic recording of changes"). Under **Cross-Client Object Changes**, confirm the correct setting (for example, "Changes to Repository and cross-client Customizing allowed"). Under **Protection: Client Copier and Comparison Tool**, confirm the protection level (for example, "Protection level 0: No restriction").

Click the Save icon to finalize the assignment, and look for the confirmation message "Data was saved" at the bottom of the screen.



Client 778 details with logical system EHPCLNT778 assigned and the "Data was saved" confirmation shown at the bottom

Summary

By completing these steps, you have successfully created a logical system in SAP and assigned it to a specific client. The logical system [EHPCLNT778](#) is now configured and linked to client 778, with the assignment confirmed and saved in the system.