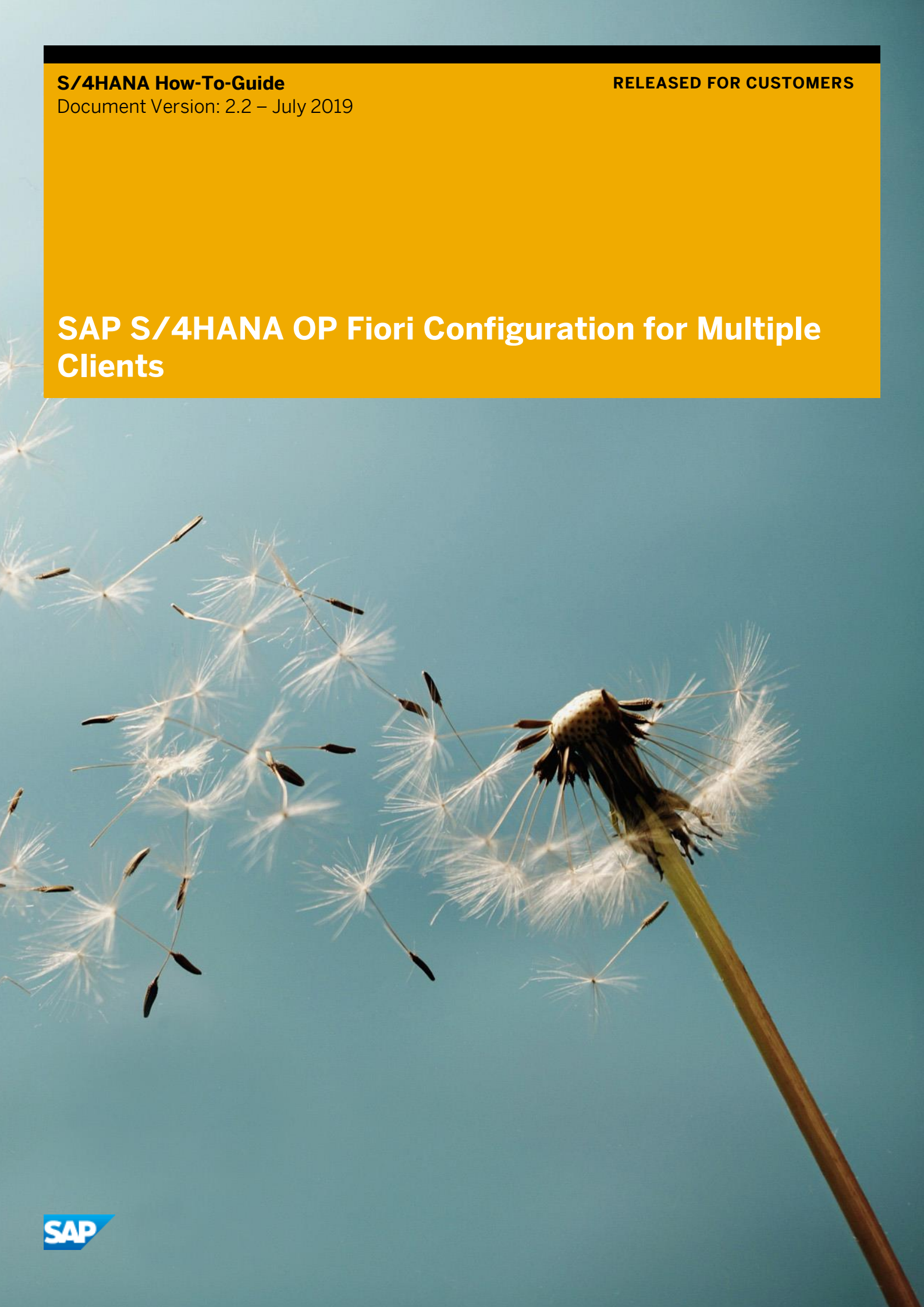


SAP S/4HANA OP Fiori Configuration for Multiple Clients



Document History

The following table provides an overview of the most important document changes.

Table 1

Version	Date	Description
1.0	July 18, 2016	Initial Version – Raquel Martinez, Javier Baltazar, Van Vi
1.1	November 7, 2016	Updated links and modified from customer feedback – Van Vi
1.2	December 16, 2016	Updated section number to reflect new Fiori Documents – Van Vi
2.0	August 28, 2017	Updated to make it S/4HANA On-Premise relevant with no version number – Van Vi
2.1	December 7, 2017	Updated to include the blog https://blogs.sap.com/2017/11/30/fiori-for-s4hana-mass-odata-unassign/ for automating the OData unassign and reassign process if client copy was done from a client other than 000 – Van Vi
2.2	July 2019	Fixed the links to the Fiori Building Block Guides to S/4HANA 1709

Typographic Conventions

Type Style	Description
<i>Example</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Textual cross-references to other documents.
Example	Emphasized words or expressions.
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE	Keys on the keyboard, for example, F2 or ENTER.

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2 Introduction

This document will detail the steps required to setup additional clients in an S/4HANA OP system. As there are customer requirements in Sandbox Development, and Quality or Test environments to create more than one client for various usages, this document can be used as a checklist to detail the steps that need to be rerun within the Fiori building block documents as well as the Administration guide. Please refer to the “Documentation Links” section for the links to the documentation being referenced.

As a tip to use this document, please see sections “Fiori Configuration Checklist Steps After Creating an Additional From Client 000” or “Fiori Configuration Checklist Steps After Creating an Additional From Clients Other Than 000” to determine which steps you need to follow. For example, if you created a client copy from 000 in the Fiori Frontend and S/4HANA Backend servers, you will need to follow the section “Fiori Configuration Checklist Steps After Creating an Additional From Client 000”. All other client copies where the source client is other than 000, you will need to use section “Fiori Configuration Checklist Steps After Creating an Additional From Clients Other Than 000”. Within this section, the tasks are also dependent on the client copy profiles used as well, so please pay special attention to the column “Additional Information” for more details.

2 Documentation Links

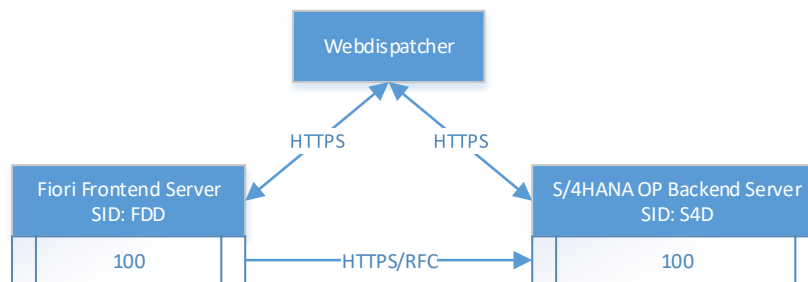
Below are the links to various S/4HANA OP documentation to be used as reference to the installation.

Documentation
<i>Administration Guide for the Implementation of SAP S/4HANA on-premise edition</i> Administration Guide for the Implementation of SAP S/4HANA (1511 FPS 2) Administration Guide for the Implementation of SAP Best Practices for SAP S/4HANA (1610, FPS000, FPS001, FPS002)
<i>Building Block Configuration Guide</i> <i>SAP S/4HANA Fiori Foundation Configuration (MAA)</i> SAP S/4HANA Fiori Foundation Configuration (MAA)
<i>Building Block Configuration Guide</i> <i>SAP S/4HANA Fiori Basic Network and Security Configuration (MAB)</i> SAP S/4HANA Fiori Basic Network and Security Configuration (MAB)
<i>Building Block Configuration Guide</i> <i>SAP S/4HANA Fiori App Deployment (MAD)</i> SAPS/4HANA Fiori App Deployment (MAD)
<i>Building Block Configuration Guide</i> <i>SAP S/4HANA Other App Types Deployment (MAL)</i> SAP S/4HANA Other App Types Deployment (MAL)

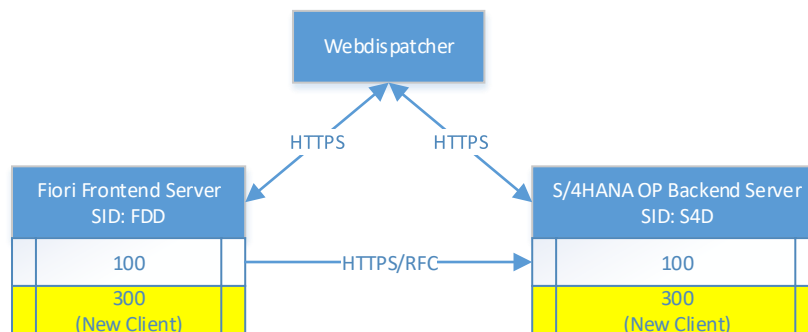
3 PREREQUISITE settings

This section describes the prerequisite items that must be completed before you start the configuration steps required for Fiori on additional clients in the Fiori Frontend and the corresponding Backend server.

- You have completed the initial configuration of the Frontend Server, Backend Server, and Web Dispatcher for the initial client following the Admin Guide and all relevant Fiori documents within the reference section.



- You have completed the creation of additional clients in the Frontend Server and Backend server and now want to do the Fiori configuration between the clients.



4 Fiori Configuration Checklist Steps After Creating an Additional From Client 000

The below checklist is used to configure Fiori for a newly created client from client 000. For example, if you are creating a second client for activating Best Practices, the source client would be from 000 using the tables while the target client is populated in table /FTI/T_NOCLN000 and referencing table /FTI/TWHITE01 during the copy procedure.

Reference Document	Tasks	Frontend Server	Backend Server	Additional Information
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.2.1 ABAP Front-End Server: Assign role template for administrators	Yes		You can also move the transport created in the previous client to this client with SCC1.
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.2.2.1 Task List SAP Gateway – Basic Configuration	Yes		Deselect task “Activate HTTP Services for NW Gateway (SICF).”
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.2.2.2 Task List Create Trusted Connection from SAP System to ABAP Front-End Server		Yes	<ul style="list-style-type: none"> • Deselect task “Add SAP System as trusted system (SMT1)” • Deselect task “Set Profile Parameter: login/accept_sso2_ticket=1 (RZ10)” • Deselect task “Set Profile Parameter: login/create_sso2_ticket=2 (RZ10)” • Ensure the user you are working with has authorization S_RFCACL in both Frontend and Backend server.
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.2.2.3 Task List SAP Gateway - Add Backend System	Yes		<ul style="list-style-type: none"> • Deselect task “Set Profile Parameter: login/accept_sso2_ticket=1 (RZ10)” • Deselect task “Set Profile Parameter: login/create_sso2_ticket=2 (RZ10)” • If you plan to move the transport request created within this task list, the recommendation is to use a generic RFC naming convention (e.g.

				S4HCLNT<client#> where S4H represents S/4HANA and not SID.
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.3.1 Automated Configuration with Task Lists	Yes		<ul style="list-style-type: none"> • Deselect task "Create / Select Customizing Request (SE09)" • Deselect task "Create SAP System Alias 'LOCAL'" • Deselect task "Activate HTTP Services for SAP Fiori Launchpad (SICF)" • Deselect task "Activate HTTP Services for UI5 (SICF)" • Deselect task "Schedule job for calculation of SAPUI5 Application Index" • Deselect task "Activate HTTP Service for Cache Buster (SICF)" <p>If you have a transport for this task list from the first client, you can also import it.</p>
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.3.3.3 Configuring Authorization Roles to Administrators and Users	Yes		You can also move the transport created in the previous client to this client with SCC1.
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.3.3.4 Assign Authorization Roles for Administrators and Users	Yes		
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.3.3.6 Testing the Fiori Launchpad	Yes		
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.6.1 Assigning Roles for Enterprise Search		Yes	You can also move the transport created in the previous client to this client with SCC1.
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.6.2.1 Task List Initial Setup of Enterprise Search (Client 000)		Yes	Enter only the newly created client number for task list "Collect System Settings"
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.6.2.2 Task List Initial Setup of Enterprise Search (Working Client)		Yes	This task may take several hours to run
MAB_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.1 Enabling SNC between Gateway and ABAP back-end system (Optional)	Yes	Yes	This step is optional but if your customer is using SNC, please follow the steps within this section for the new client.
MAB_S4HANAX_BB_ConfigGuide_EN_XX.doc	4.1 Activating HTTP Security Session Management on AS ABAP	Yes	Yes	Ensure all clients are activated

MAD_S4HANAX_BB_ConfigGuide_EN_XX.doc	4.1 Create and Assign the Backend Role for a User		Yes	
MAD_S4HANAX_BB_ConfigGuide_EN_XX.doc	4.3.1 Automated Activation with Task Lists	Yes		Use section “2.3.3.3 Activating OData services for delivered scope via task list” from the Admin Guide for the list of OData Services that needs to be activated based on your scope.
MAD_S4HANAX_BB_ConfigGuide_EN_XX.doc	8.1 Checking Generation of ABAP Runtime Artifacts in S/4 HANA System		Yes	
MAD_S4HANAX_BB_ConfigGuide_EN_XX.doc	5.2.3 Assign a User to the SAP Fiori Launchpad	Yes		
MAD_S4HANAX_BB_ConfigGuide_EN_XX.doc	5.1.1 Create System Alias for Backend Workflow in ABAP Front-End Server	Yes		
MAD_S4HANAX_BB_ConfigGuide_EN_XX.doc	5.1.2 Activation of OData Service in ABAP Front-End Server (my Inbox)	Yes		
MAL_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.1.1 Create RFC connections to connect the Frontend server to the Backend server	Yes		This step should already have been done while doing the configuration for the first client. Ensure the RFCs do not have Language or client populated.
Complete the steps in the “Additional Activities” from this document				

5 Fiori Configuration Checklist Steps After Creating an Additional From Clients Other Than 000

The below checklist is used to configure Fiori for a newly created client from clients other than 000. For example, in your environment you have a client 100 that has already been configured for Fiori usage between Web Dispatcher, Frontend Server and Backend Server. Then, you create a client copy from client 100 into a new client. The below steps will be used to assist with the post-copy configuration tasks. Please refer to the column “Additional Information” on determining which steps are required and which can be skipped based on the client copy profile used.

Reference Document	Tasks	Frontend Server	Backend Server	Additional Information
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.2.1 ABAP Front-End Server: Assign role template for administrators	Yes		<p>Required: For client copy using profiles without user information</p> <ul style="list-style-type: none"> You can also move the transport created in the previous client to this client with SCC1.
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.2.2.1 Task List SAP Gateway – Basic Configuration	Yes		<p>Required: For client copy using profiles without customizing</p> <ul style="list-style-type: none"> Deselect task “Activate HTTP Services for NW Gateway (SICF).
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.2.2.2 Task List Create Trusted Connection from SAP System to ABAP Front-End Server		Yes	<p>Required: For client copy using all profiles</p> <ul style="list-style-type: none"> Deselect task “Add SAP System as trusted system (SMT1)” Deselect task “Set Profile Parameter: login/accept_sso2_ticket=1 (RZ10)” Deselect task “Set Profile Parameter: login/create_sso2_ticket=2 (RZ10)” Ensure the user you are working with has authorization S_RFCACL in both Frontend and Backend server.

MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.2.2.3 Task List SAP Gateway - Add Backend System	Yes		<p>Required: For client copy using all profiles</p> <ul style="list-style-type: none"> • Deselect task "Set Profile Parameter: login/accept_sso2_ticket=1 (RZ10)" • Deselect task "Set Profile Parameter: login/create_sso2_ticket=2 (RZ10)" • If you plan to move the transport request created within this task list, the recommendation is to use a generic RFC naming convention (e.g. S4HCLNT<client#> where S4H represents S/4HANA and not the SID.
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.3.1 Automated Configuration with Task Lists	Yes		<p>Required: For client copy using all profiles</p> <ul style="list-style-type: none"> • Deselect task "Create / Select Customizing Request (SE09)" • Deselect task "Create SAP System Alias 'LOCAL'" • Deselect task "Activate HTTP Services for SAP Fiori Launchpad (SICF)" • Deselect task "Activate HTTP Services for UI5 (SICF)" • Deselect task "Activate HTTP Service for Cache Buster (SICF)" • Deselect task "Schedule job for calculation of SAPUI5 Application Index" <p>If you have the transport for this task list from the first client, you can also import the transport.</p>
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.3.3.3 Configuring Authorization Roles to Administrators and Users	Yes		<p>Required: For client copy using profiles without user information</p> <ul style="list-style-type: none"> • You can also move the transport created in the previous client to this client with SCC1.
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.3.3.4 Assign Authorization Roles for Administrators and Users	Yes		<p>Required: For client copy using profiles without user information</p>
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.3.3.6 Testing the Fiori Launchpad	Yes		<p>Required: For client copy using all profiles</p>
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.6.1 Assign Roles for Enterprise Search		Yes	<p>Required: For client copy using profiles without user information</p>

				<ul style="list-style-type: none"> You can also move the transport created in the previous client to this client with SCC1.
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.6.2.1 Task List Initial Setup of Enterprise Search (Client 000)		Yes	<p>Required: For client copy using profiles without customizing</p> <ul style="list-style-type: none"> Enter only the newly created client number for task list "Collect System Settings" <p>Note: Not required any longer for SAP S/4HANA 1610 or higher.</p>
MAA_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.6.2.2 Task List Initial Setup of Enterprise Search (Working Client)		Yes	<p>Required: For client copy using all profiles This task may take several hours to run</p> <p>NOTE:</p> <ul style="list-style-type: none"> If the client copy was done using profiles with customizing, use task list <i>SAP_ESH_ADJUST_AFTER_CLIENT_COPY</i> and afterwards <i>SAP_ESH_CREATE_INDEX_SC</i> If the client copy was done using profile without customizing, use task list <i>SAP_ESH_INITIAL_SETUP_WRK_CLIENT</i>
MAB_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.1 Enabling SNC between Gateway and ABAP back-end system (Optional)	Yes	Yes	<p>Required: For client copy using all profiles</p> <ul style="list-style-type: none"> This step is optional but if your customer is using SNC, please follow the steps within this section for the new client.
MAB_S4HANAX_BB_ConfigGuide_EN_XX.doc	4.1 Activating HTTP Security Session Management on AS ABAP	Yes	Yes	<p>Required: For client copy using profiles without customizing</p> <ul style="list-style-type: none"> Ensure all clients are activated
MAD_S4HANAX_BB_ConfigGuide_EN_XX.doc	4.1 Create and Assign the Backend Role for a User		Yes	<p>Required: For client copy using profiles without user information</p>
MAD_S4HANAX_BB_ConfigGuide_EN_XX.doc	4.3.1 Automated Activation with Task Lists	Yes		<p>Required: For client copy using profiles with customizing</p>

				<ul style="list-style-type: none"> Delete alias of source client from transaction /n/iwfn/maint_service odata services that are in the list "2.3.3.3 Activating OData services for delivered scope via task list" in section from the Admin Guide for the list of OData Services that needs to be activated based on your scope <p>Required: For client copy using all profiles</p> <p>Use section "2.3.3.3 Activating OData services for delivered scope via task list" from the Admin Guide for the list of OData Services that needs to be activated based on your scope.</p>
MAD_S4HANAX_BB_ConfigGuide_EN_XX.doc	4.5 Assign a User to the SAP Fiori Launchpad	Yes		<p>Required: For client copy using profiles without user information</p>
MAD_S4HANAX_BB_ConfigGuide_EN_XX.doc	5.1.1 Create System Alias for Backend Workflow in ABAP Front-End Server	Yes		<p>Required: For client copy using all profiles</p> <ul style="list-style-type: none"> Verify correct Alias to RFC assignment
MAD_S4HANAX_BB_ConfigGuide_EN_XX.doc	5.1.2 Activation of OData Service in ABAP Front-End Server (my Inbox)	Yes		<p>Required: For client copy using profiles with customizing</p> <ul style="list-style-type: none"> Delete alias of source client from transaction /n/iwfn/maint_service odata <p>Required: For client copy using all profiles</p> <p>Use section "4.1.2 Activation of OData Service in SAP Gateway (my Inbox)" from the Configuration.</p> <p>Note: Mass unassign of OData, please refer to the blog: Fiori for S/4HANA – Mass OData Unassign for instructions and program to help reduce the manual effort.</p>
MAL_S4HANAX_BB_ConfigGuide_EN_XX.doc	3.1.1 Create RFC connections to connect the Frontend server to the Backend server	Yes		<p>Required: For client copy using all profiles</p> <p>This step should already have been done while doing the configuration for the first client. Ensure the RFCs do not have Language or client populated.</p>

Required: For client copy using all profiles

Complete the steps in the “Additional Activities” from this document

6 Additional Activities

1. Open the Web Dispatcher profile and ensure the parameters for "wdisp/system_#" does not have "CLIENT=###" values. The client number is not required.
2. Enable client check box in FLP:
 - a. Go to transaction SICF.
 - b. Enter "flp" as the service name and apply filter

- c. Double click the “flp” service and go to the “Error Pages”. Ensure you are in change mode. Scroll down and click on the “Configuration” button.

The screenshot displays the 'Create/Change a Service' configuration page for the 'flp' service. The path is '/default_host/sap/bc/ui2/'. The service name is 'flp' and it is active. The language is set to 'EN English'. The description includes 'SAP Fiori launchpad with dynamic page processing' and 'Supports cache-busting'. The 'Error Pages' tab is selected, showing three configuration options: 'Explicit Response Time', 'Redirect to URL', and 'System Logon'. The 'System Logon' option is selected, and the 'Configuration' button is highlighted. The 'Redirect to URL' status is set to '2'. The 'Explicit Response Time' section has a 'Documentation' button. The 'Explicit Response Page Header' and 'Explicit Response Page Body' sections each have an 'Alias' field and a 'Header Page' or 'Body Page' field. The 'Redirect' section has a text input field and three radio button options: 'W/o Form Fields' (selected), 'Form Fields (Text Form)', and 'Form Fields (Base64)'.

- d. Check the "Client" checkbox. Then click Enter.

The screenshot shows the 'System Logon Configuration' dialog box. It is divided into several sections:

- Settings Selection:** Use Global Settings, Define Service-Specific Settings
- System Logon Settings:**
 - Select Display:** System ID, Client (highlighted with a red box), Language, System Messages, Logon and System Information
 - Default:** Client: [text field], Language: [dropdown menu]
 - Logon Layout and Procedure:** SAP Implementation (Screen: [dropdown menu], SAP Theme: [dropdown menu]), Custom Implementation (ABAP Class: /UI2/CL_SRA_LOGIN)
 - Document mode Edge, Deactivate LoadOnDemand,
- Actions During Logon:** Protocol: Logon using HTTPS (dropdown menu), Do Not Display Warnings, Check for Multiple Logon (System-Wide Check), Support Accessibility, Support Autocomplete, Certificate Request with HTTPS (Only at User Request, Default User Request), Service for Certificate Request: [text field], Service for Certificate Assignment: [text field], Deactivate Login XSRF Protection, Deactivate Default Frame Bust, Display Last System Logon, Failed Logon Attempts Only

At the bottom right, there are buttons for 'Save as Global Settings' (with a green checkmark icon) and 'Cancel' (with a red X icon).

- e. Click Save.

3. Modify the below RFCs to remove the client:
- R3 connections for S4<XXX>_RFC
 - HTTP Connections to ABAP System for S4<XXX>_HTTPS



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