

# SAP Fiori Deployment Guide

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## **Prerequisites and Dependencies**

The following assumptions have been made in this document.

Number	Description
1.	Availability of SAP HANA Cloud Platform (HCP) account for production or trial account.
2.	Understanding of Fiori paradigm and UI5 application development for maintaining the application.
3.	SAP HANA Cloud Connector (HCC) configuration is complete in the landscape where backend services reside. Further, the HCP account must be set up in the HCC with relevant resource configurations.
4.	Understanding of SQL Server Management Studio and IIS basics.
5.	The operating system of the DSP web server on which the server side components of the Fiori solution are to be deployed must be Windows 2012 or 2012 R2. 2008/R2 is not supported.



# Introduction

## Purpose and Scope

The purpose of this document is to provide a step by step guide for deploying Fiori Launchpad and tiles on an SAP HANA Cloud Platform (HCP) account. The document provides instructions to export destinations, sites (tiles), and applications (UI5) from a source HCP account to a destination account.

The import process can be performed using the deployment package provided.

The installation includes all the required artifacts that have been exported with this document. Hence, all export steps in the document are not required. Import steps should be followed using relevant artifacts.

## Audience

This document is for the consulting team and technical administration teams that need to deploy the Fiori Migration Metrics tiles that are an optional component of the SAP Advanced Data Migration Solution by Syniti.



# **Deploy OData Services on Premises**

The following sections detail the setup and deployment of the OData database and the corresponding OData services that support the Fiori deployment and expose the metrics captured in the Syniti Data Stewardship Platform (DSP), Advanced Data Migration (ADM), Information Steward Accelerator (ISA), or base DSP deployment).

Before deploying, ensure that you have an administrator OS account and the main cransoft / DSP user account for the SQL Server environment of the DSP.

To deploy the OData services:

- 1. Create the OData Database
- 2. Run OData Database Scripts
- 3. Install Microsoft WebDeploy 3.5
- 4. Edit the FioriWCFDataService.SetParameter.xml File
- 5. Run FioriWCFDataService.deploy.cmd
- 6. Check Deployment of OData Services

## Create the OData Database

To create the OData database in SQL Server Management Studio:

- 1. Right click the **Databases** folder in the DSP SQL Server instance that you are going to deploy the OData Services against and select **New Database**.
- 2. Enter **OData** in the **Database Name** field.



8		New	Database		_ <b>_</b> ×	
Select a page	🔊 Script 👻 🛐	Help				
Poplions						
Filegroups	Database name:		OData			
	Owner:		CranSoft			
	✓ Use full-text indexing					
	Database files:					
	Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth / Maxsize	
	OData	ROWS	PRIMARY	4	By 1 MB, Unlimited	
	OD ata_log	LOG	Not Applicable	1	By 10 percent, Unlimited	
Server:						
Server: localhost Connection:						
Server: localhost Connection: cransoft View connection properties						
localhost Connection: cransoft	<	Ш		Add	Remove	

- 3. Set the owner as the CranSoft or DSP user that has access to all of the DSP application databases. Note the username and password as it is required to connect to the SAP HANA Cloud Connector (HCC) later in these steps.
- **NOTE**: The database will contain views only. It is not necessary to change the default values in the Initial Size (MB) column.

#### **Run OData Database Scripts**

To create the required views to support the OData services:

1. Copy the scripts from the <Deployment Package>/SQL Scripts/OData-Solex.sql into a New Query window in SQL Server Management Studio.



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ibject Explorer	
Connect* 🙀 🙀 💷 🦿 🛃 🛃	1 USE [00ata]
a G Daletota b Daletota b Daletota b MOW b MOW b Dobain c Dobain	2         0000         000000000000000000000000000000000000
in 🧰 Storage in 🏣 Security	<pre>15 /***** Object: View [dbo].[User_MyReportsActionable_Metric] Script Date: 2/11/2016 6:11:35 AN *****/ 16 EMDP VIEW [dbo].[User_MyReportsActionable_Metric]</pre>
is [RADTeelKit is RM is SubAffa is subAffar is subAffar is subAffar	17         600           18         //www.dbject.view.jhyReportActionable_Detail]         Script Date: 2/11/2016 6:11:33 AN *****/           19         DBOD VIIM [dbc].[User_jhyReportActionable_Detail]         Script Date: 2/11/2016 6:11:33 AN *****/           20         60         21         /*******/           21         Generation [User_jhyReportActionable_Detail]         Script Date: 2/11/2016 6:11:33 AN *****/           22         Generation [User_jhyReportActionable_Detail]         Script Date: 2/11/2016 6:11:33 AN *****/

- 2. Execute the script.
- **NOTE**: If this is the initial script execution, it is expected that errors will be returned as the drop commands will fail. After the initial run, the errors do not display.

## Install Microsoft WebDeploy 3.5

Use the Microsoft WebDeploy application to deploy the code required to expose the OData services.

1. Run the **WebDeploy\_amd64\_en-US.msi** package delivered in the FioriODataDeploy subfolder of the deployment package as Administrator.

🖌 🔆 Favorites	Name	Date modified
🔜 Desktop	FioriWCFDataService.deploy.cmd	3/15/2016 5:21 AM
〕 Downloads	📔 FioriWCFDataService.deploy-readme.txt	3/15/2016 5:21 AM
🔛 Recent places	FioriWCFDataService.SetParameters.xml	3/15/2016 5:21 AM
	FioriWCFDataService.SourceManifest.xml	3/15/2016 5:21 AM
🕯 🥽 Libraries	🚞 FioriWCFDataService.zip	3/15/2016 5:21 AM
👂 📑 Documents	🛃 WebDeploy_amd64_en-US.msi	3/15/2016 11:49 AM

2. Choose the **Typical** deployment option.



# Edit the FioriWCFDataService.SetParameter.xml File

	Fio	ioriWCFDataService.SetParameters.xml - Notepad	_ <b>□</b> ×
File Edit Format View Help			
<setparameter name="ODataE&lt;/td&gt;&lt;td&gt;b Application Name" value="Default&lt;br&gt;ntities-Web.config Connection Stri&lt;/td&gt;&lt;th&gt;t Web Site/odata"></setparameter> ing" value="metadata=res://*/model.ODataDb.csdl res://*/model.ODataDb.ssdl res://*/mo alue="data source=54.174.152.115;initial catalog=OData;persist security info=True;use <td></td>			

- 1. Unzip the compressed file FioriWCFDataServicesDeploy.zip.
- 2. Edit the FioriWCFDataService.SetParameter.xml file. Change the following parameters to your environment setup:
  - YOURSERVERIP = IP address of your DSP database server, e.g., 12.34.56.789
  - YOURSQLUSER = SQL user with access to the OData database, e.g., cransoft or DSP
  - YOURSQLPASSWORD = SQL password for the above user
- 3. Save the file ensuring it is still in the same directory as the other files referenced in the previous screenshot / step (FioriODataDeploy subfolder). Then, run the command file FioriWCFDataService.deploy.cmd using the following steps.

S:\Users\JonGreen\Downloads\Fiori0DataDeploy>dir Volume in drive C has no label. Volume Serial Number is 9C92-3404 Directory of C:\Users\JonGreen\Downloads\Fiori0DataDeploy 3/15/2016 11:52 AM <dir> 3/15/2016 11:52 AM <dir> 3/15/2016 05:21 AM 4.048 FioriWCFDataService.deploy-readme.txt 3/15/2016 05:21 AM 14,449 FioriWCFDataService.deploy.cmd 3/15/2016 05:21 AM 791 FioriWCFDataService.SetParameters.xml</dir></dir>	c) 2012 Microsoft :\Windows\system3	-		*		ataDenlou		≡
13/15/2016 11:52 AM (DIR) 13/15/2016 11:52 AM (DIR) 13/15/2016 05:21 AM 4.048 FioriWCFDataService.deploy-readme.txt 13/15/2016 05:21 AM 14.449 FioriWCFDataService.deploy.cmd 13/15/2016 05:21 AM 791 FioriWCFDataService.SetParameters.xml	:\Users\JonGreen\ Volume in drive C Volume Serial Num	Downloads\Fior: has no label. ber is 9C92-346	iODataI 04	)eploy>dir				
03/15/2016 05:21 AM 2,979,370 FioriWCFDataService.zip 03/15/2016 11:49 AM 6,139,904 WebDeploy_amd64_en-US.msi 6 File(s) 9,139,143 bytes 2 Dir(s) 12,004.519,936 bytes free	3/15/2016       11:52         3/15/2016       11:52         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         3/15/2016       05:21         6       F	AM <dir> AM <dir> AM 3DIR&gt; AM 2,97 AM 2,97 AM 6,13 AM 6,13</dir></dir>	4,048 14,449 791 581 79,370 39,904 139,143	FioriWCFD FioriWCFD FioriWCFD FioriWCFD FioriWCFD WebDeploy bytes	ataService ataService ataService ataService ataService amd64_en-	.deploy-re .deploy.cm .SetParame .SourceMan .zip	d ters.xml	

4. Open a command prompt on the DSP server using the **Run as Administrator** option.



- 5. Change directory to the Deployment Package directory containing the file FioriWCFDataService.deploy.cmd (unzipped in previous steps).
- 6. Enter the command FioriWCFDataService.deploy.cmd /**T** to test the deployment of the OData Service. If no errors are returned, execute the same command replacing the /T parameter with /Y.

Contact SAP Support at https://launchpad.support.sap.com using component XX-PART-BOA if any errors display during the installation.

#### **Potential Errors**

- 1. If the error message "ERROR\_APPPOOL\_VERSION\_MISMATCH" displays, ensure that the DefaultAppPool .NetFrameworkVersion is set to v4.0 not v2.0. Verify the setting in the IIS Manager by selecting Application Pools under the Server.
- 2. If errors display indicating that the server cannot be reached, the connection parameters may be incorrect in the FioriWCFDataService.SetParameter.xml. If the database application server and DSP application server are on separate servers, ensure that the IP address and user / password provide the connection information to the database application server and not the DSP application server.
- 3. If the following error message displays "Error: This access control list is not in canonical form and therefore cannot be modified. Error count: 1.", follow the steps below as the User Access Control (UAC) on the Windows server nust be changed to allow for the installation to proceed.

On the DSP Web Server:

- a. Navigate to C:\inetpub\wwwroot\odata.
- b. Right-click the **odata** folder and select **Properties**.
- c. Select the **Security** tab.
- d. Select Administrators then click Edit.
- e. Click **Reorder** on the Windows Security window that displays.
- f. Click Apply.
- g. Click **Ok** to close windows.

## **Check Deployment of OData Services**

- 1. Open Internet Information Services (IIS) Manager.
- 2. Check that the odata application has been deployed into the Default Web Site folder.





**NOTE**: To deploy the application into a different web site, modify the XML configuration file used for the deployment to use that web site, and confirm that the odata application has been deployed into that web site.





4. Open a web browser and enter the server address and port that your application is running on with the suffix /odata/OData.svc/. A page similar to the one above displays, showing the OData services available in the application. These OData Services are going to be consumed by SAP Fiori and the HCC.

#### **Troubleshoot Error Connecting to OData Services**

If the following error displays on entering the URL defined in step 3 above, then the issue may be related to the order in which components on the Windows operating system have been installed.

Could not load type 'System.ServiceModel.Activation.HttpHandler' from assembly 'System.ServiceModel, Version=3.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089'

To resolve the issue:

- 1. Run C:\Windows\Microsoft.NET\Framework\v4.0.30319\aspnet\_regiis.exe -iru from a command prompt running under Administrator privileges.
- 2. Repeat the test of the OData.svc connection. If the same error displays, continue with step 3.
- 3. From the Start menu, choose **Programs > Administrative Tools > Server Manager**.
- 4. In Server Manager, under Features Summary, click Add Features.
- 5. In the Add Features dialog, under.NET Framework 3.0 Features, select the .NET Framework 3.0.
- 6. Under WCF Activation, select HTTP Activation and click Next to install.
- 7. In Server Manager, under Roles Summary, verify that Web Server (IIS) appears in the list of available roles. If it does not, click **Add Roles** to install Internet Information Services.
- 8. In Server Manager, under Roles Summary, click Web Server (IIS).
- 9. In the Web Server (IIS) management window, click Add Role Services.
- 10. In the Add Role Services dialog, expand Web Server, then Application Development.
- 11. Select ASP.NET and click Next to install.

If any other issues are encountered, contact SAP Support at https://launchpad.support.sap.com using component XX-PART-BOA.

# SAP HANA Cloud Connector (HCC) Installation

SAP HANA Cloud Connector (HCC) serves as the link between on-demand applications in SAP HANA Cloud Platform (HCP) and existing on-premises systems.

HCC runs as an on-premise agent in a secured network and acts as a reverse invoke proxy between the on-premises network and SAP HANA Cloud Platform (HCP). Due to its reverse invoke support, it is not necessary to configure the on-premises firewall to allow external access from the cloud to internal systems.

#### On Microsoft Windows, two installation modes are available: Developer version and Productive version.



• Windows: <u>https://help.hana.ondemand.com/help/frameset.htm?204aaad4270245f3baa0c57c8ab1dd60.html</u>

Choose one of the procedures listed below to install HCC 2.x on the DSP application server depending on the operating system.

#### **Developer Version**

Install the HCC 2.x Developer version by extracting a compressed archive into an empty directory. It does not require administrator or root privileges for the installation.

Restrictions using this method:

- It cannot be run in the background as a Windows Service.
- It does not support an automatic upgrade procedure. To update a Developer installation, delete the current installation, extract the new version, and then configure it again.

#### **Productive Version**

To install the HCC 2.x Production version requires administrator permissions for the installation. The installation can be set up to run as a Windows Service. It can also be easily upgraded, retaining all the configuration and customizing.

#### Prerequisites

- One of the following 64-bit operating systems is required:
  - o Windows Server 2012
  - o Windows Server 2012 R2
- Download either the ZIP archive for the Developer version on Windows or the MSI installer for the Productive version from the <u>SAP Development Tools for Eclipse</u> page (https://tools.hana.ondemand.com/).
- Install Microsoft Visual Studio C++ 2010 runtime libraries. For more information, see <u>Microsoft Visual Studio</u> <u>C++ 2010 Redistributable Package (x64)</u>.
- Install Java 7. To use SAP JVM, download it from the <u>SAP Development Tools for Eclipse</u> page (Cloud page) (https://tools.hana.ondemand.com/).
- Set the environment variable *<JAVA\_HOME>* to the Java installation directory, so that the bin subfolder can be found. Alternatively, when using the ZIP file, you can add the relevant bin directory to the *<PATH>* variable.

#### Steps to Install Productive Version

- 1. Download HCC from <u>https://tools.hana.ondemand.com/#cloud.</u>
- 2. Double-click the <sapcc-<version>-windows-x64.msi> installer.
- 3. The installer informs you that you are now guided through the installation process, click Next.



- 4. The installer reminds you that you need to have Java 6 or a later version installed. If you have met this requirement, click **Next**.
- 5. Select the port on which the administration UI is reachable. Either leave the default 8443 or choose a different port. Then click **Next**.
- 6. Select the JDK to be used for running the HCC. The installer displays a list of all JDKs of version 7 installed on the machine. If the needed JDK is not listed in the drop-down box (for example, if it's an SAP JVM that is not registered in the Windows Registry upon installation), browse to its installation directory and select it. It is recommended to use an up-to-date Java 7 installation to run the HCC.
- 7. Click Next.
- 8. If the HCC should not start immediately after finishing the setup, remove the check from the checkbox. **Note:** The assumption is that the service should be started immediately.
- 9. Click Next.
- 10. Click Next again to begin the installation.
- 11. Click Close when the installation is complete.
- 12. In a browser, enter: https://<hostname>:8443, where <hostname> is the host name of the machine on which the HCC is installed.

NOTE: If you access the HCC locally from the same machine, enter localhost.

13. For initial configuration (initial password, proxy settings etc.) refer to <u>https://help.hana.ondemand.com/help/frameset.htm?db9170a7d97610148537d5a84bf79ba2.html.</u>

#### HCC as a Windows Service

In the Productive version, HCC is started as a Windows Service. It must automatically start after a reboot of your system, so installation requires administration permissions. After installation, the service must be administrated under **Control Panel** > **Administrative Tools** > **Services**. The service name is **SAP HANA Cloud Connector 2.0**.

For further information, refer to the Windows installation link:

https://help.hana.ondemand.com/help/frameset.htm?204aaad4270245f3baa0c57c8ab1dd60.html

## SAP HANA Cloud Connector (HCC) Configuration

To configure the HCC, perform the following tasks, which are covered in the steps below:

- 1. Add an Account
- 2. Map Virtual to Internal System
- 3. Add Resources
- 4. Verify the Account



#### Add an Account

1. Log on to HCC as the Administrator.

	and the second second	
	SAP HANA Cloud Connector Login User Name: Password:	
•		

- 2. Click the Account Dashboard.
- 3. Click the **Add** button.

00.000				
coun	t Dash	board		
	dd	1 Delete	Connect 🔌 Disc	connect
<b>U</b>		CARL STREET, NO. 180		

4. Either

Enter **hanatrial.ondemand.com** in the **Landscape Host** field if this is a trail account. **NOTE**: Below that Account Name is *<sUserId>+trial* OR



Enter **hana.ondemand.com** in the **Landscape Host** field if this a productive HCP account and enter the account details.

andscape Host: *	hanatrial.ondemand.com	~
Account Name: *	s0007043614trial	
User Name: *	\$0007043614	
Password: *		

5. Click OK.

The Account Dashboard displays. The new account displays a yellow icon in the status column, indicating that the account doesn't have any active resources. With the new account selected in the drop down on the left, select the **Access Control** link.

#### Map Virtual to Internal System

- 1. Click the Add button under the section Mapping Virtual To internal System.
- 2. Select Non-SAP System in the Back-end Type field.
- 3. Click Next.
- 4. Select HTTP in the **Protocol** field.
- 5. Click Next.
- 6. Enter the exact Host name to the back end, as it would look in your running application, in the **Internal Host** field.
- 7. Enter the port on which your application resides in the Internal Port field.
- 8. Click Next.
- 9. Enter the **Virtual Host** and **Virtual Port** details that you want to use as the alias on the HCP account e.g. DSPServerEurope / 843.
- 10. Click Next.



- 11. Enter a description into the **Description** field if required.
- 12. Click Next.
- 13. Click the **Check availability of internal host** check box to enable it to verify that the connection can be established.
- 14. Click Finish.

Virtual host can	not be edited
/irtual Host:	usprodmanagement
/irtual Port:	443
nternal Host: *	localhost
nternal Port: *	81
Protocol:	HTTP 🗸
Principal Type:	Kerberos 🗸
3ack-end Type: *	Non-SAP System 🗸
SNC Partner Name:	
Description:	US Product Management Server
Check availabili	ty of internal host (this may take some time)
Check availabili	ty of internal host (this may take some time)

If the connection is successful, the new virtual connection displays in the Mapping Virtual To internal System table.

5	State	Virtual Host	Internal Host	Protocol	Back-end Type
	0	hana:80	cit-hana01.eai-ltd.co.uk:8000	нттр	Other SAP System

#### Add Resources

#### 1. Select the newly created virtual Host.



2. In the Resources Accessible table, click the **Add** button.

	Virtual Host	Internal Host		Protocol	Back-end Type	
•	hana:80	c8-hana01.eai-b1.co.uk.8000		HTTP	Other SAP System	
Resou	rces Accessible On cit-hana01.eai-ltd.co.uk:8000					
	Add_ / Elt.   D Englis D Daubis   12 Delstr					
0	State URL Path		Access Policy			
	/comprise/		Path and all sub-paths			

- 3. Ensure the **Enabled** check box is selected.
- 4. Enter the URL to your application in the **URL Path** field.

NOTE: Use the base URL to the odata service: odata/OData.svc.

5. Select the **Path and all sub-paths** option.

1 Path must	not be empty
	Chabled
URL Path: *	/odata/OData.svc/
Access Policy:	<ul> <li>Path only (sub-paths are excluded)</li> </ul>
	<ul> <li>Path and all sub-paths</li> </ul>
Description:	n.a.
	terror and the

- 6. Click Save.
- 7. Click the **Save** button.

After this step is complete, HCC is configured to be used from within HCP Destinations.



#### Verify the Account

1. After allocating resources, click Account Dashboard.

SAP HANA Cloud Connector Admini	stration
ocus Object	Details
Account Dashboard	Account Dashb
Account: a7c08d815 ~	🎦 Add
	Stat

2. Find the account just added in the 'Account Dashboard' table.

The **Status** column should contain a green square icon as highlighted in the image.



	Add	前 Delete 🛛 🔌 Conne	ct 🗞 Disconn	ect
Ē	Status	Account Name	Connections	Landso
		p1940301335trial	0	hanatria
		p1941201786trial	0	hanatria

# Access the SAP HANA Cloud Platform (HCP) Account

1. Log in to the HCP account at <u>http://account.hana.ondemand.com.</u>



2. Click Log On.





The dashboard of your HCP account displays.

=		SAP HANA Cloud Pl	atform Cockpit		¢ 🗈	₹ ④ (
Dashboard	🔳 Europe (Trial) 🛩 / 🖾	p1251912852trial				
HANA XS Applications	System Status					0
Java Applications	AVA		HTML5			
Database Systems	Overal Health	Get started here?	Overall Health	26 Applications		
Databases & Schemas	No applications yet	or Create an application Run sample applications	0	23 Started		
HTML5 Applications				3 Stopped		
Destinations		Watch a video	OK			
Connectivity						
Subscriptions	DATABASE SYSTEMS Availability Status	0 Databases				
Services	Analousy Galles	Constanting of				
Trust	•					
Authorizations	N/A					
OAuth	1. C					
	Favorite Applications					0
Useful Links	You have not yet defined any	fevorite applications; you can edd	them from the Java Applicat	tions list		
Lens Information						

Use the dashboard to access:

- WebIDE Integrated development environment for developing UI5 applications
- Destinations For configuring destinations to access backend
- Services For accessing SAP HANA Cloud Portal for configuring Launchpad and Tiles



# **Export and Import Destination Configurations**

Destinations are used to access backend functionality available on the internet or on an on-premise environment. This section describes steps to export and import destination configurations from a source HCP account to a destination HCP account.

## Access Destinations

In the HCP dashboard, click **Destinations**.

=		8	AP HANA Cloud Pla	tform Cockpit		۰	8	-		
Deshboard	III Europ	e (Trial) 🕤 / 🔝 p1251912	852trial							
HANA XS Applications	Destina	tions (All: 7)								0
Java Applications	🖾 New	Destination Import Destinu	ition Certificates							
Detabase Systems	Type	Name	Basic Properties		Actio	ns				
Databases & Schemas HTML5 Applications	П. ЧТТН	BOA	Authentication ProxyType URL	BasicAuthentication Internet https://54.208.251.119	/	雨	<u>+</u>	8	ß	
Destinations		BOA_115	Authentication ProxyType	BasicAuthentication Internet https://54.208.251.115/81	/	R)	4	8	ß	1
Connectivity Subscriptions	П. НТТР	BOA_Cloud_115	Authentication ProxyType URL	https://04.208.201.110.81 BasicAuthentication OnPremise http://54.174.152.115.81	/	围	<u>+</u>	8	ß	1
Services Trust	(П.) НТТР	BOA_Cloud_115_2	Authentication ProxyType URL	NoAuthentication OnPromise http://uspm15:443	/	6	Ŧ	8	B	1
Authorizations OAuth	П. НТТР	cpv2_plugin_dest	Authentication ProxyType URL	AppTcAppSSO Internet https://portalwebideplugin-p1251912852trial.cispatcher	/	(h)	1	8	ß	1
	Г. НТТР	Internet	Authentication ProxyType URL	BasicAuthentication Internet https://54.208.251.119	/	Ð	Ŧ	8	ß	

**NOTE:** If the account is used for the first time, there might be no existing destinations and so the table might be blank which is expected.

# **Export Destination Configurations**

**NOTE:** This step could be skipped if deployment is not to be moved from a source account to destination account and the exported entities are already available. In the present context, exported destination files are present in zip (installation media) in 'Destination Export' folder.

In the source HCP account, click the down arrow to export a destination.



Dashboard	E Europ	pe (Trial) 🕤 / 🛅 p1251912	652trial				
HANA XS Applications	Destina	itions (All: 7)				G	ð
Java Applications	R New	Destination Import Destin	ation Certificates				
Database Systems	Type	Name	Basic Properties		Actions		
Databases & Schemas	HTTP	BOA	Authentication ProxyType URL	BasicAuthentication Internet https://54.208.251.119	/ @ .	L & R	
Destinations	[2] НТТР	BOA_115	Authentication ProxyType URL	BasicAuthentication Internet https://54.208.251.115/81	/ @ .	L II R	
Connectivity Subscriptions	нтр	BOA_Cloud_115	Authentication ProxyType URL	mps/lo4.206.201110.01 BasicAuthentication OnPremise http://dx.174.152.115.81	19.	E B B	
Services Trust	П. НТТР	BOA_Cloud_115_2	Authentication ProxyType URL	NoAuthentication OnPremise http://usom15.443	19	E B B	
Authorizations	[]]. НТТР	cpv2_plugin_dest	Authentication ProxyType URL	AppToAppSSO Internet https://portalwebideplugin-p1251912852trial.dispatcher	18.	E B B	
	П. НТР	Internet	Authentication ProxyType URL	BasicAuthentication Internet https://54.208.251.119	/ @.	t e G	
Useful Links							
Legal Information							

## Import Destination Configurations

1. In destination HCP account, click **Import Destination**.

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Dashboard	E Europ	pe 🕤 / 👗 Comprise Ltd 🗠	/ 🗷 Comprise - Dev	elopment Account ~					
HANA XS Applications	Destina	tions (A _ J	_						0
Java Applications		Destination Import Destin	ation Certificates						9
Database Systems	Type	Name	Proje Properties		Actio				
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	HTTP	C4CBasicAuth	ProxyType	Internet	1	阳土	1 1	ß	
HTML5 Applications	HILP		URL	https://my312437.crm.ondemand.com					
Destnations		12223	Authentication	NoAuthentication		B .▲		-	
	HTTP	Q12	ProxyType	OnPremise	1	10 -	4.18	ß	
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Subscriptions	-	Q12_ADT	ProxyType	OnPremise	1	(4) 4	1	R	
	HTTP	0.000	URL	http://gateway.g12:80/sap/bc/adt		202			
Services	<b>E</b>		Authentication	NoAuthentication					
Members	HTTP	Q12_GW_ODATA	ProxyType	OnPremise	/	回 1	L 😰	B	
	ние		URL	http://gateway.q12.80/sap/opu/odata					
Trust	-		Authentication	BasicAuthentication					
Authorizations	HTTP	Q12_UI5	ProxyType	OnPremise	/	日 1	4 10	13	
			URL	http://gateway.q12:80/sap/bo/ui5_ui5					
OAuth									
Document Repositories									
Git Repositories									
ык неровлопев									
Resource Consumption									
Account									
Useful Links									

2. Select the destination file in the file selector.



**NOTE:** If the deployment is not to be moved from a source account to destination account, then access exported destination files from folder "Destination Export" in the deployment zip (installation media) for importing destinations.

After selecting destination, the screen populated with destination details displays.

3. Click Save.

		8A	P HANA Cloud Pla	tform Cockpit	O 🖪 🕶 🕄
Neshboerd		pe 👻 / 🛣 Comprise Ltd 👻	/ 🔝 Comprise - Dev	elopment Account 🤟	
IANA XS Applications	нттр	C4CBasicAuth	ProxyType	Internet https://my312437.crm.ondemand.com	/哈土會尼
va Applications stabase Systems	нтр	Q12	Authentication ProxyType URL	NoAuthentication OnPremise http://gateway.com/80	/电土自日
tabases & Schemas ML5 Applications	нтр	Q12_ADT	Authentication ProxyType URL	NoAuthentication OnPremise http://gateway.g12.80/sap/bc/adt	/陶土會В
stinations	нтр	Q12_GW_ODATA	Authentication ProxyType URL	NoAuthentication OnPremise http://gateway.g12.80/sap/opu/odata	×兜土會В
beoriptions rvices	нтр	Q12_UI5	Authentication ProxyType URL	BasicAuthentication OnPremise http://gateway.g12.80/sap/bc/ui5_ui5	/哈土會B
embers ust	Destin	ation Configuration			
thorizations			BOA_Cloud_115_2		2
-m		Description:	HTTP BOA_Cloud_115_2	5	
cument Repositories		* URL: Proxy Type:	http://uspm15:443 OnPremise		-
it Repositories		Authentication:	NoAuthentication		•
source Consumption		Additional Properties			New Property
count		WebIDEEnabled			0
		WebIDESystem	v		8
		WebIDEUsage	~	odata_gen	8
seful Links		1			
		Cancel			

**NOTE**: Changes to the imported destinations are optional, but would be required if there is a change in the backend services that are accessed through the destinations (e.g., if the authentication mechanism changes).

# Deploy Imported WebIDE Projects to SAP HANA Cloud Platform (HCP)

This section contains the following tasks:

- 1. Access WebIDE
- 2. Export WebIDE Projects
- 3. Import WebIDE Projects
- 4. Update the Account Field in Imported Projects
- 5. Deploy to HCP



## **Access WebIDE**

1. Select **Subscriptions** from the left menu in the HCP dashboard.

3			SAP HANA Cloud Platform	n Cockp	sit .	0 8	8 📢 🖲			
Deshboard	E Euro	ope (Trial) 🕤 / 🔝 p125	1912852tnal							
ANA XS Applications	Subece	ribed Java Application	Ne (All: 0)					Ø		
lava Applications	00000	and out a t approxime						0		
atabase Systems	State	Provider Account	Application		Start Time	Actions				
etabases & Schemas		No applications subscribed								
(TML5 Applications										
Destinations	Subscr	ribed HTML5 Applica	tions (All: 5)					0		
constitute	Til No	w Subscription								
	State	Provider Account	Application	. +	Name	Active Version	Actions			
lubscriptions	0	trial	fipportal		fipportal	24.01.build-191_13b_H1	12			
arvices .	0	triat	portalapptemplates		portalapptemplates	1.7.3	757			
inust	0	trial	portaisitetemplates		portalsitetemplates	1.7.0	120			
	0	trial	portatwebideplugin		portalwebideplugin	1.69.1	10			
uthorizations	0	sapwebide	webide		webide	1.21.6-08022016091752				

2. From the **Subscribed HTML5 Applications** table, click the **webide** link in the **Application** column.

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HANA XS Applications	Suberr	ibed Java Applicatio	ne (All: 0)			0				
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Databases & Schemas	2000000	No applications subscribed								
HTML5 Applications										
Destinations	Subscr	ibed HTML5 Applica	tions (All: 5)			0				
Connectivity	Tp No	w Subscription								
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Subscriptions	0	trial	fipportal	fipportal	24.01.build-191_13b_H1	<del>а</del>				
Services	0	trial	portalapptemplates	portalapptemplates	1.7.3	121				
Trust	0	trial	portalsitetemplates	portaisitetemplates	.1.7.0	it:				
	0	trial	portalwebiceps	portalwebideplugin	1.69.1	iφ.				
Authorizations	0	sapwebide	webide	webide	1.21.6-08022016091752					
OAuth										
Useful Links										

The details screen displays.

3. Click the **Application URL**.



<b>I</b>		SAP HANA Cloud Plat	form Cockpit	÷ 🗉 🗘	• • •
Overview	Europe (Trial) ~ /	🖾 p1251912852trial 🚽 🔿 webid	0 Y		
Roles					0
Logging	Active Application Version Application URL	: 1.21.6-08022016091752 : https://webide.p1251912852triel.dispat	cher.hanatrial.ondemand.cor		
	Required Destinatio	ns			Ø
	Assign a destination from	n your account to each required destinat	ion of the application.		
	Available	<ul> <li>Required Destination (from Appl)</li> </ul>	ication Descriptor)	Mapped Account Destination	
		sapjam: Jam integration		sapjam (default mapping)	
	Edit				
	Application Permiss	ions			
	Permission Name	Assigned Role	- Description		
	WebIDEPermission	AccountDeveloper	Access SAP Web ID	E	
	Edt				
Useful Links					
Level Information	Most Recent Loggin	9			0

The WebIDE window displays in a separate tab.

NOTE: If the WebIDE opens to a screen like the one below, click the </> button to open the editor.

File Edit R	un Deploy Search View Tools Help		
🍙 💮 Sav	e 🛞 Run 😓 😓		
¢3	Hi Chobe! Welcome to SAP Web IDE		What's New Video
	What's New	Open my workspace	Diglic (gravalars is tal? Holiki Claud Haltime Agalamino Solal) Anana * <u>Statustar Solarity Marcellano</u> Paga Tamaya Agargada Nama * anandrangka a
	Create a Project		Connects for Addression Constitutions Constitutions
			Deployment
	Quick Start New Project New Project with Layout from Template from Sample Editor Application	New Extension Project	Helpful Links
	Import an Application		SAP Web IDE Documentation SAPUI5 SDK SAP HANA Academy Tutorials SAP Fiori Design Guidelines

# **Export WebIDE Projects**

- **NOTE**: This step could be skipped if the deployment is not to be moved from a source account to a destination account and exported entities are already available. In the present context, exported projects are present in zip (installation media) in 'WebIDE UI5 Application Export' folder.
- 1. In the source HCP account, right-click the relevant applications and click **Export**.



The application is exported to the default download location.

2. Repeat this step for all the relevant UI5 applications.



## **Import WebIDE Projects**

1. In the destination HCP account, click **File > Import > From File System**.





- **NOTE**: If the deployment is not to be moved from a source account to a destination account, then access exported project files from folder "WebIDE UI5 Application Export" in the deployment zip(installation media) for importing destinations.
- 2. Click the **Browse** button and select the UI5 application zip.
- 3. Verify the auto-populated details and click **Ok**.



4. Repeat the above steps for all the relevant UI5 applications.

Applications to import:

- Compose\_RequestsActive
- Compose\_RequestsArchived
- Compose\_RequestsInactive
- ISA\_ErrorCountByReport
- Migrate\_ConstructionStatus\_Detail
- Migrate\_FieldMappingStatus\_Detail
- Migrate\_TargetDesignStatus
- Migrate\_ValueMappingStatus\_Detail
- Track\_OverdueTasks
- Track\_TaskStatus\_Detail
- User\_MyComposeRequests
- User\_MyISAErrorCount
- User\_MyReportsActionable



- User\_MyReportsBusiness\_Detail
- User\_MyWorkList

# Update the Account Field in Imported Projects

1. Expand the node/folder of the imported project.

(			
	+ Migrate_ConstructionStatus_Deta	11	
	🔁 + dist	12 -	re
	主 + webapp	13	
	.gitignore	14	
	* .project.json	15	
	■ • neo-app.json	16 -	
	readme.txt	17 -	
	+ Migrate_FieldMappingStatus_Deta	18 - 19	
	+ Migrate_TargetDesignStatus [mas	19 20 -	
	Higrate_TargetDesignStatus [mas	20 -	

- 2. Access .project.json file in the root folder of each imported application.
- 3. Search for 'hcpdeploy'.
- 4. For hcpdeploy object in json, change the value for account field to the current/destination account.



# **User Configuration**

The following applications and tiles related to the following applications are run by user-specific data, i.e., the data is filtered based on the current user of the application.

• User\_MyComposeRequests



- User\_MyISAErrorCount
- User\_MyReportsActionable
- User\_MyReportsBusiness\_Detail
- User\_MyWorkList

At runtime it is possible to access the SAP user ID of the logged in user. However, the data in the backend is stored according to Syniti user IDs. For this purpose, the above projects contain a user mapping object to map an SAP user to a corresponding Syniti user.

To modify or add to the user mappings:

- 1. Access the user mapping file: user-mapping.json.
- 2. Expand project folder in WebIDE.



3. Under root folder, navigate to the **webapp** > **config** folder.





4. Open **user-mapping.json** in the editor.

1 -	Ι			
2 -		{		
3			"sap":	"p1251912852",
4			"boa":	"jg"
5		},		
б				
7 -		{		
8			"sap":	"DEFAULT_USER",
9			"boa":	"tw"
10		},		
11				
12 -		{		
13			"sap":	"s0011613758",
14			"boa":	"jg"
15		},		
16				
17 -		{		
18			"sap":	"s0011628591",
19			"boa":	"jg"
20		}		
21	]			

This file contains all the user mappings.

## **Deploy to HCP**

- 1. Right-click the project.
- 2. Select **Deploy > Deploy to SAP HANA Cloud Platform.**





- 3. Click the **Deploy a new application** check box to enable it if this is the first deployment or select **Update an existing application** if you are deploying for a subsequent time.
- 4. Click Deploy.
- 5. Click **Close** when the success message displays.



6. Repeat for each Application.



# Enable the SAP HANA Cloud Portal and Deploy the Site Access SAP HANA Cloud Portal

- 1. Select **Services** from the left menu in the HCP dashboard.
- 2. Click SAP HANA Cloud Portal.

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HANA XS Applications Java Applications Database Systems	Mobile Services Mobile your enterprise and extend your		
Databases & Schemas	Fiori app into the mobile space.		
HTML5 Applications	Security		
Destinations	0 E E1110	C Entitled	A
Connectivity	<b>X</b>	1	
Subscriptions	Authorization Management Platform API for managing roles and their	Keystore Service Secure repository for cryptographic keys	OAuth 2.0 Service Protect applications and APIs with OAuth
Services	assignments to users.	and certificates.	2.0.
Trust	User Experience		
Authorizations	Not enabled	Not enabled	Enabled
OAuth	BETA	A STATE OF A CONTRACT OF A CON	
	Feedback Service Collect and analyze user feedback for your applications.	SAP Forms as a Service by Adobe Generates print and interactive forms using Adobe Document Services.	SAP HANA Cloud Portal Easily create enterprise-grade business sites for mobile use - to engage customers,
Useful Links			partners and employees.
Legal Information			

NOTE: Refer to Enable SAP HANA Cloud Portal section below if this option displays with a grey button.

3. Click Go to Service.





#### 4. Select Site Directory.



## Enable SAP HANA Cloud Portal

If needed, enable the SAP HANA Cloud Portal.

1. Select **Services** from the left menu in the HCP dashboard.

If the SAP HANA Cloud Portal is not enabled the button for that option displays in grey.

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HANA XS Applications			
Java Applications	Internet of Things		
Culabase Byslems	*		
Databases & Schemas	Internet of Things Services		
ITTMLS Applications	Enable customers and partners to develop, customere, and operate IOT business applications in the cloud.		
Destinations	Construction of the Construction		
Connectivity	Mebilo		
Storpton	Nittennes		
	Mobile Services		
Trast	Mobilize your enterprise and extend your Fion app into the mobile space.		
Acherzators			
crum	Security		
Document Republicies	2 <sup>6</sup>	t Control	(A) (A)
Git Repositories	Authorization Management	Keystore Service	OAuth 2.0 Service
Resource Comumption	Flattorn API for monaging roles and their assignments to users.	Secure repository for oryphographic keys and certificates.	Protect applications and APIs with OAuth 2.0.
	2018. 10.000/02		
	User Experience		
		See 12403	Sz(misso)
	Feedback Service Collect and shallyze user teedback for your applications	SAP Forms as a Service by A lobe Generates prot and interactive tools using Acobe Document Services	SAP HANA Cloud Portal Lasily create enterprise-grade business allys for mobile use - to engage
Useful Links		and the second s	rustomers, partners and employees.
Local Morrison			

#### 2. Click SAP HANA Cloud Portal.

#### The Overview page for SAP HANA Cloud Portal displays.



3. Click **Enable** to enable the service.



# Export Site

**NOTE:** This step could be skipped if the deployment is not to be moved from a source account to a destination account and the exported entities are already available. In the present context, the exported site is present in zip (installation media) in 'Hana Cloud Portal Site Export' folder.

Perform these actions in the source HCP account.

1. Hover over the bottom of the tile (where the name and published date displays) for the site that is to be exported.



#### 2. Click the **down arrow** next to Edit.







3. Select **Export**.

The zip file is downloaded to the default download folder for your browser.

#### **Import Site**

- 1. In the destination HCP account, click the **Import Site** button.
- 2. In the file selector, select the site export zip <installation media>\Hana Cloud Portal Site Export\SAP\_exported\_site.zip.



Admin Spa	Ce	
		Import Site S
	Welcome	
		Customize and Extend

**NOTE:** If the deployment is not to be moved from a source account to destination account, then access the exported site from the folder "Hana Cloud Portal Site Export" in the deployment zip(installation media) for importing site.

## Access the Fiori Portal

- 1. Click the URL on site's tile to access the Fiori Launchpad.
- 2. In the new imported tile, hover on the bottom of the tile (where the name and published date is displayed).



The URL for Fiori Launchpad displays.

3. Click the URL.





The Fiori Launchpad displays in a new window, with the relevant tiles to all the Fiori applications.

Last Updated: July 12, 2019