

Configuration Guide for Infor OS using System i Workspace AnyWhere

XA 9.2 and 10.x Infor OS On-premises 2022-xx

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About this guide

This document describes the integration of XA with Infor OS On-premises using System i Workspace AnyWhere, referred to as SiWA in the rest of this guide. This guide explains the integration requirements, configuration tasks, and troubleshooting information.

Intended audience

This guide is intended for the system administrator or professional service consultant who configures the integration between SiWA and Infor OS.

Required knowledge

To integrate XA and Infor OS, you must understand the concepts behind System Manager, SiWA, and Infor OS.

Related documents

You can find the documents in the product documentation section of the Infor Support Portal, as described in "Contacting Infor" on page 8.

These guides are also needed if the initial installation is not already completed:

- Infor System Manager Quick Installation Guide for Infor XA
- Infor XA Setup Guide for Secure Net-Link
- Infor Operating Service Installation Guide
- Infor Si System Manager Installation Guide
- System i Workspace AnyWhere Installation and Administration Guide
- KB 1365947 Need Authorization codes
- <u>KB 1136739</u> System Manager and Work Management PTFs
- KB 1963350 System i Workspace AnyWhere

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Chapter 1 Introduction

Infor OS is a comprehensive platform for social collaboration, business process improvement, and contextual analytics. You get the most innovative social collaboration technologies translated into a business environment, fully integrated across your business processes.

System i Workspace AnyWhere (SiWA) is the user interface for Infor XA.

The user interface includes these components:

- Most XA IDF objects that are available in IDF Net-Link.
- XA IDF Level 1 tasks that were previously only available through green screen and Host Presentation Server in Power-Link.
- SiWA, an intermediate layer. This layer is required because the NetLink user interface is not displayed as tabbed content directly within the frame of Infor OS.
- Within SiWA, both Net-Link and IDF L1 user interfaces are rendered as tabbed content.

This guide describes the process to configure the components required to run XA within the Infor OS common user interface.

These are the recommended sequence of steps to complete the installation and configuration:

- 1 Infor XA server and client with Net-Link
- 2 Infor System i System Manager
- 3 Infor System i Workspace AnyWhere
- 4 Infor Operating Service (OS)

These examples show the System i Workspace AnyWhere in Infor OS:

Introduction

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		Item number	WH 1 or Line number						
		Release							
		Option	8						
			1 Add order/item						
			2 Revise order/item/release						
			3 Change, do not flag as revised, order/item/release 4 Cancel order/item/release						
			5 Reactivate cancelled order/item/release						
			6 Vendor accept						
			7 Reopen/Complete						
									-

Chapter 2 Requirements

This chapter describes the requirements for configuring Infor XA with Infor OS using SiW Anywhere.

Infor XA Server and client with Net-Link requirements

Install System Manager on each IBMi which runs XA environments. This is a pre-requisite for SiW Anywhere. Review this list to determine what you need:

- Infor Development Framework for Infor XA 06.03 (IDF R9) and any additional IDF licensed applications like IDF Power-Link with Integrator and Net-Link.
- Infor XA IDF 9.2.2 client software build must be 02.09.02.02.30 or later.
- Infor XA IDF 9.2.2 server PTFs is PCM SH16055 (XA 9.2.2 with PTF level 025000).
- Infor XA IDF 10.0 client software build must be 03.10.00.01.03 or later
- Infor XA IDF 10.0 server PTFs is PCM SH16231 (XA 10.0 with PTF level 00100).
- IBMi standard software set option 5770SS1: Option 8 AFP Compatibility Fonts (required for TIFF image support).
- IBMi standard software set option 5770TS1 on V7R2/R3/4 i5/OS, must have both the base option and Option 1 installed (required for PDF support).

Additional software required for System i System Manager:

- The required OS/400 level for Infor System Manager 3.0.4 must be at least V7R3.
- Infor System Manager v3 plus latest PTF (143 minimum)

These PTFs are required to correctly generate self-signed certificates within the IBM HTTP Server as additional software for System i Workspace with IBMi deployment:

- OS400 V7R2 R720 PSY SI67104 UP18/09/12 P 8249
- OS400 V7R3 R730 PSY SI67280 UP18/05/04 I 1000
- IBM J9 VM 1.8.0 64-bit JVM (5770-JV1 option 17)

Note: This JVM version must be installed and enabled over all application servers installed within the WebSphere profile that you intend to use with System i Workspace.

• IBM HTTP Server (latest updates required)

- WebSphere Application Server Base v9.0.0.11 (or higher)
- WebSphere Application Server Plugins v9.0.0.11 (or higher)

Note: You need to ensure that a default profile and server is created. The initial name of this profile is "default" and the server name is "server1."

Infor System i System Manager requirements

Review these requirements before installation and configuration.

Software Requirements

The required OS/400 level for Infor System Manager 3.0.4 must be at least V7R3.

Note: If you are using iASPs (Independent Auxiliary Storage Pools) on your IBMi machine, you must contact an Infor Consultant to discuss how to proceed with your System i Workspace installation.

Security requirements for IBMi accounts

These user accounts must be created if not already present on your IBMi server. If the accounts already exist, then ensure that their security configuration matches these specifications.

User	Requirement
Security Officer User with sufficient authorities to install System i System Manager (the install must default to QSECOFR)	This user must have a profile with *ALLOBJ and *SECADM special authorities to be able to install System i Workspace.

Infor System i Workspace AnyWhere Requirements

SiW AnyWhere can be installed with Windows or IBMi deployments. One SiW AnyWhere server can support multiple XA machines or environments, or you can use multiple SiW servers.

Note: After you complete the SiW AnyWhere installation, update the installation with latest Feature Pack version. FP10 is the minimum required version for this implementation.

Hardware requirements

See "Hardware requirements and recommendations" section from "Chapter 2 Preparing for the installation" in *System i Workspace AnyWhere Installation & Administration Guide*.

Software requirements

See "Software requirements" section from "Chapter 2 Preparing for the installation" in *System i* Workspace AnyWhere Installation & Administration Guide

Security and account requirements

This section covers the IBMi and SSL/TLS encryption requirements.

IBMi accounts required

These user accounts must be created if not already present on your IBMi server. If the accounts already exist, ensure that their security configuration complies with these specifications.

User	Requirement
Security Officer User with Sufficient authorities to install System i Workspace. The installation will default to QSECOFR.	This user must have a profile with*ALLOBJ and SECADM* special authorities to be able to install System i Workspace.
Database User to access System Manager, WFi files depending on the version of System Manager you selected. The installation will default to JDBC_AMV3. If an account does not exist, the installer will create an account and configure the account per the requirements.	This user must have a Group Profile of AULUSER, Supplemental Groups of AULSECOFR, AULEXTOWN, AULAMDBUSR and (PWDEXPITV) set to *NOMAX. It is also recommended that this user is set to *SIGNOFF for security reasons. This user should also have a library list set up either by defining the job description or using an initial program, which should include the System Manager libraries as part of their initial library list.
	Note: If you are using iASPs (Independent Auxiliary Storage Pools) on your IBMi machine, you should contact an Infor Consultant to discuss how to proceed with your System i Workspace installation.

Requirements

User	Requirement
	This Database User must have enough authority to read the Spool, Message and Job queues of all IBMi users that have access to the My Spool Files, My Jobs and My Messages widgets, along with authority to carry out certain actions on their behalf such as delete a Spool File. This authority will not be enabled by the installer and must be applied manually.

SSL/TLS encryption

System i Workspace uses SSL/TLS encryption for all communication over HTTP between the Client and Server. You can select one of these options from the System i Workspace installer:

- Self-Signed Certificate, which is created automatically by the installer.
- **Certificate Authority**, if performing a Microsoft Windows deployment, use one that has been purchased or generated such as Comodo, Symantec or from one of the many other providers.

If you are using a certificate from a Certificate Authority, you need these items during the installation of System i Workspace:

- A Keystore file that contains your purchased SSL Certificate and a **full** Certificate Authority Chain
- The password to this Keystore file
- The Alias Name for this Certificate within the Keystore file

See "Secure Sockets Layer (SSL)" section from "Chapter 14 Security" in *System i Workspace AnyWhere Installation & Administration Guide* for additional details regarding how to obtain these items before you begin installation of Infor SiWA.

IBMi deployment

Ensure the appropriate PTF for your IBMi Operating System, documented in the Software Requirements section, is applied.

See IBMi deployment section of the Prerequisite installations chapter for more information on configuring SSL before installing Infor SiWA

Infor Operating Service requirements

This section describes the server requirements for Infor Operating Service (Infor OS).

Note: Infor OS 2020-06 is the minimum version required for successful integration.

See the latest *Infor Operating Service Installation Guide* for a better understanding of requirements and installation of Infor OS on premises.

Chapter 3 Installation

This chapter provides information on System Manager, SiWA, and Infor Operating Service installations.

Installing System Manager

For the complete set of instructions required to install System Manager, see *Infor System Manager Quick Installation Guide for Infor XA* on docs.infor.com under version 9.1.

For additional information, see Infor Si System Manager Installation Guide.

Installing System i Workspace AnyWhere

This section describes the process of SiWA installation for both Microsoft Windows and IBMi deployments.

Microsoft Windows deployment

For installation and configuration of SiWA to run on Tomcat Web Server, see *Infor System i Workspace AnyWhere Installation and Administration Guide* and follow all the steps related to *Microsoft Windows deployment*.

Note: If you want to install and run multiple instances of SiWA in a single Windows server using unique ports for each individual installation, see the required additional settings mentioned in "Multiple SiWAW WebSphere installations on a single IBMi server."

IBMi deployment

For installation and configuration of SiWA to run on WebSphere Application Server, see *Infor System i Workspace AnyWhere Installation and Administration Guide* and follow all the steps related to IBMi deployment.

Refer to these sections for any issues or missing steps observed during this deployment process:

- Chapter 3 Pre-requisite installations -> IBM i deployment -> Creating a local Certificate of Authority section in the Infor System i Workspace AnyWhere Installation and Administration Guide can include the Select Applications page. Select all applications on this page that have your XA IBMi server in the Assigned Certificate column.
- In Chapter 3 Pre-requisite installations -> IBM i deployment -> Creating an IBM HTTP Server instance section in the Infor System i Workspace AnyWhere Installation and Administration Guide, verify that the default WebSphere profile is displayed in the application list. If not, see the Creating an additional default WebSphere Profile section in this chapter to create the default profile in WebSphere.
- After selecting the **default** WebSphere profile, if a message of **Indicate which installed application should be mapped to the selected Web Server** displays, select the **Default Applications only** value.
- After successful installation of SiWA on WebSphere, if you receive an **Internal Server Error** when you try to launch the SiWA for the first time, refer to <u>Appendix C</u> in this guide.

Integration data sheet

During the installation and the configuration tasks, you are prompted for information in this table. Prior to installation, print this table and fill in the applicable information.

Data	Your value
System Name	
System i server on which Infor XA is installed Identify one server as the default	
User ID	
System i log-on User ID for an account on the machine on which ERP XA is installed. For the	
Account, the supplemental group authority must be AULSECOFR	

Installation

Your value	
-	Your value

You can gather some of the information, such as server names and log-ons, before you begin the installation. You can fill in the remaining data as you proceed through the installation so that you have the required data when prompted.

Installing Infor Operating Service

We recommend that you use XA with System i Workspace and Infor OS installed.

You can use XA with System i Workspace but without Infor OS. During installation, you can omit the Infor OS installation and configuration steps, but you must complete these steps:

- Install System Manager.
- Install System i Workspace.
- Export the metadata.

You can then access System i Workspace directly using a standalone URL as described in the *System i Workspace AnyWhere Installation & Administration Guide*.

You must verify the System i Workspace function even if you plan to use Infor OS.

For the complete set of instructions required to install Infor OS, see the *Infor Operating Service Installation Guide*.

Chapter 4 Post installation

This chapter provides the post-installation information for SiWA.

System i Workspace AnyWhere

Refer to the *System i Workspace AnyWhere Installation & Administration Guide* for detailed information about the tasks in this section.

Verifying the installations

After the installation of all the components, you must execute the process described in the "Verifying the System i Workspace deployment" section of the System i Workspace AnyWhere Installation & Administration Guide.

Setting the iASP

If your XA environment is on an iASP, execute these processes to ensure that the iASP group is set to the correct iASP:

- 1 Specify **STRM400** on the **AS400** screen to start the System Manager.
- 2 Select Application Manager and press Enter.
- 3 Select Maintain Environments and press Enter.
- 4 Press **F4** and select **Environment**.
- 5 Ensure that the iASP group is set to the correct iASP.

Post installation

Maintain Environments	
Environment QQ	*UPDATE
Type in details and press ENTER to update	
Environment name <u>9.2 - Build testing w/IFM</u> Environment group ? <u>9.2 - Build testing w/IFM</u> Role processing <u>0</u> (0-No, 1-Yes) iASP group <u>IASP</u> Ming.le active <u>(0-No, 1-Yes)</u>	
F3=Exit F4=Prompt F11=Delete F12=Previous F14=Work Manage	ement

Securing Net-Link and Secure Socket Layer configuration

The standard installation process involves secure socket layer (SSL) configuration and accessing Net-Link through a URL to the IBMi. This configuration restricts user access to a secure network.

Microsoft Windows deployment

For SSL configuration, complete the process described in the "Chapter 14 Security" section in the *System i Workspace AnyWhere Installation & Administration Guide*.

To set up a secured Net-Link in the SiWA application, follow the steps in *Infor XA Setup Guide for Secure Net-Link.*

- 1 Generate war file by referring to the WAR file generation section.
- 2 Deploy the war file on SiWA Tomcat by referring to the *WAR file deployment -> Tomcat (version 7.0 +)* section.
- 3 Configure the Net-Link URL in SiWA Admin.html by referring to *Appendix B Workspace Net-Link* URL configuration.

Client settings

This section explains the client settings that need to be configured on each client PC that accesses the SiWA. See "Chapter 8 Client settings" in the *System i Workspace AnyWhere Installation & Administration Guide*.

System i Workspace profiles

We recommend that you set one SiWA profile for each configured XA environment.

Currently, the Tenant specified during deployment of SiWA within Infor OS is used is the same as the Workspace profile ID.

Chapter 5 Exporting metadata

You can export metadata from Infor Development Framework (IDF) to SiW. This metadata contains the information for the cards, card files, and the contents in IDF. The metadata is used by SiW to construct the menus and the options.

Enabling host reports

Enabling the export metadata job is required to ensure that AULAMP3 is in the library list for the environment.

- 1 Specify **STRXA** at the command on the green screen to start your XA environment and select the required environment.
- 2 Specify **CAS** on the command line.
- 3 Specify AMZM70 on the command line.
- 4 Select Maintain Library List.
- 5 Add AULAMP3 to the Library List.

Requirements

To run exports, sign in with a user ID that has supplemental group authority AULUSER and AULSECOFR.

System Manager and SiW PTFs must be the latest versions.

Exporting metadata from IDF to Workspace

After installations, the users need to export the metadata from IDF to SiW. The IDF metadata is the data that describes the objects in IDF and how these objects are arranged into cards and card files.

This metadata must be converted to SiW metadata that describes the tasks available in SiW and how the tasks are grouped into menus.

The two interfaces use different terminology and different styles to present the application tasks available to a user. This export process maps the IDF metadata to the SiW metadata.

Although the Net-Link interface of IDF is integrated with SiW, you can use Power-Link or release 10 of Net-Link to invoke the export process.

Export public or private metadata

The **Export public metadata to Workspace** host job exports the metadata for public card files, cards, and the related objects. The host job ignores export of metadata for private card files or cards even for the user who runs the job. However, user defined public card files, cards, and objects are included.

If you need to export private card files and cards as well as the public ones, you are not required to run both the public and the private export jobs. The **Export private metadata to Workspace** host job includes the public card files and cards.

You can rerun either export job if card files or cards are added or modified. You must include users when you run the host job again, or authorization to access the menu may not be valid.

The export jobs also export definitions for the environment, applications, library lists, companies, and users.

The Export public metadata to Workspace host job is available in these cards:

- · Business Objects object on the Integrator card
- User Profiles object on the Integrator card
- User Profiles object on the Environment card

The process and screenshots in this section explain the host jobs from the Business Objects object. The process is similar for the User Profiles object.

The **Export private metadata** host job is only available on the User Profiles object. This host job is very similar to the **Export private metadata to Workspace** host job but allows the selection of the users to be exported.

Exporting metadata

- 1 Start Net-Link.
- 2 Navigate to the Business Objects object on the Integrator application card or the User Profiles object on the Integrator or Environment object.
- 3 Select File > Host Jobs.

The **Host Job** option is not displayed if System i Manager is not properly installed or the AULAMP3 library is not added to the XA Environment library list.

- 4 Select the **Export public metadata to Workspace** tab. The tabs are displayed in alphabetical order, but this order is not the best sequence to run them.
- 5 Select the **Execute** check box.

The **Description** attribute is applicable only for the logs and does not affect the exported data.

	ent Framework	Business Objects
Business Object		
Submit Cancel Help		
Export L1 data to Workspace	Execute	
Export public metadata to Workspace	Content	
	Description: Export public metadata to	o Workspace
	Options	
	Top level menu and menu name prefi	ix: IDF
	Top level menu description	IDF
	Include user	rs: 💿 Yes 🔘 No
	Set user attribute	es: 💿 Yes 🔿 No
	Replace menu:	is: 💿 Yes 🔘 No

6 Specify the name of the top level menu that is created in the **Top level menu and menu name prefix** field.

From the top level menu, you have access to all other exported menus. This name is used as a prefix for all other exported menus to limit the length. The default top level menu is **IDF**. We recommend that you use IDF unless IDF clashes with an existing menu. We recommend that you do not run the job multiple times with different top level menu names to avoid creating similar menus in System i Manager. If you need to delete redundant menus, use System i Manager functions.

- 7 Specify the description of the Top level menu in System i Manager.
- 8 Select Yes for the Include users field if the users must be included in the Export process. If you do not include users, you must run the Export again and include the users or create the users manually in System i Manager. If the Export job exports new menus or menu options, you must select Yes or the authority to the menus and options will not be available in Workspace.
- 9 Specify Yes in the Set User Attributes field if user attributes must be set. For an XA user, selecting Yes for this attribute is usually appropriate. The exception is when you have non-XA tasks and menus in System i Manager. In this case, you might require an initial menu that references the exported IDF top level menu and the non-XA tasks.
- 10 Specify **Yes** in the **Replace Menus** field if the menus are replaced. Select **Yes** to delete the previous version of the menu and export a new version. Selecting **No** allows the export to run

more quickly, but if objects are removed from cards in IDF, obsolete options may remain in System i Manager.

Selecting **Yes** is appropriate, except in the case of exporting additional languages.

- 11 Specify Yes for each language only if translated card file, card, and object descriptions must be exported. Otherwise, leave as No. A maximum of five languages can be exported in one run. If you need to export more than five languages, you can run the Export again with additional languages. If you run the export host job again to add languages, you must set **Replace menus** option to No or the previous translations are lost.
- 12 Click Submit.

The Export public and private metadata to SiW jobs run on the client; therefore, the system is slow to respond when you click **Submit**.

A report is generated with the list of exported files and list of errors, if any. This report is displayed on the system used for the Submit process and not on the host.

Export IDF level 1 tasks

You must run the **Export L1 data to Workspace** host job to use IDF Level 1 tasks in SiW. The **Export L1 data to Workspace** host job exports both Infor supplied, and additional user defined L1 options.

If you do not require L1 tasks in SiW, do not run this export process. The **Export L1 data to Workspace** host job is available in Business Objects on the Integrator application card. The **Export L1 data to Workspace** host job is also available in the User Profiles object on the Integrator or Environment application cards. Having the **Export L1 data to Workspace** host job available from the Environment application card provides access without an Integrator license.

You must run the Export public or private metadata job before executing this job or the **Export L1** data to Workspace host job will fail.

Note: You must run the Export public or private metadata job again after executing this job.

The **Export L1 data to Workspace** host job generates the tasks and menus required in SiW to run user IDF L1 options.

Exporting IDF tasks

- 1 Start Power-Link.
- 2 Navigate to the Business Objects object on the Integrator card.
- 3 Select File > Host Jobs.
- 4 Select the **Export L1 data to Workspace** tab. The tabs are displayed in alphabetical sequence.
- 5 Select the **Execute** check box.

Exporting metadata

The **Description** attribute is for the logs and does not affect the exported data.

	nt Framework	Business Objects
Business Object		
Submit Cancel Help		
Export L1 data to Workspace	C Execute	
Export public metadata to Workspace	Content	
	Description: Export L1 data to Workspace	
	Options	
	Menu name prefix: IDF	
	Chinese: 🔿 Yes 💿 No	
	Czech: 🔿 Yes 💿 No	
	French: 🔿 Yes 💿 No	
	German: 🔿 Yes 💿 No	
	Italian: 🔿 Yes 💿 No	
	Japanese: 🔘 Yes 🛛 No	
	Polish: 🔿 Yes 🛛 No	
	Portuguese: 🔘 Yes 💿 No	
	Spanish: 🔿 Yes 💿 No	
	Swedish: 🔿 Yes 💿 No	
	Turkish: 🔿 Yes 💿 No	

- 6 Specify the prefix to use for the generated menus in the **Menu name prefix** field. Using the same value as in the public or private metadata job is recommended. The generated menu names may have the same prefix, which is not an issue.
- 7 Select **Yes** for each language only if translated card file, card, and object descriptions must be exported. Otherwise, leave as **No**.
- 8 Click Submit.

The **Export L1 data to Workspace** host job runs on the iSeries and generates a report that can be located using WRKUSRJOB.

When the export is complete, you must run the Export public or private host job again.

In the first run of the export, the links to the L1 menus are dropped as the L1 metadata is not available. After the L1 export, the metadata is available but not linked to the other menus. In the second run of the public or private metadata, the links are established.

Exporting users to Workspace

In XA, an environment might be unlocked and therefore the environment can be accessed by anyone with a valid IBM i user profile. For SiW, all the users must be authorized to use System i Manager.

Users are exported to Workspace using the Export public metadata to Workspace host job or the Export private metadata to Workspace host job.

If you have XA users who are not defined in the User Profiles object, we recommend that you define the users before you run the **Export users to Workspace** host job. Otherwise, you must define the users in System i Manager and authorize suitable menu authority. To define these users, select **User Profile Maintenance** on the **Security Maintenance** in Cross Application Support, menu AMZM38 option **5. Work With XA User Profiles**.

If you use SiW to run tasks exported from IDF and run the public or private version of the Export metadata to Workspace host job for the first time, you must set the **Set user attributes** to **Yes**.

Otherwise, the initial menu is not displayed for the users in the workspace. This is applicable for most XA users. You can change this attribute to $\mathbf{N}_{\mathbf{0}}$ for subsequent Export users to Workspace host jobs unless you have defined additional users or additional private card files and cards.

Additional metadata maintenance

If cards or card files are changed in IDF, then you must export the metadata again if you have made any of these changes:

- Added an object to a card
- Removed an object
- Changed the workspace of an object on a card
- Added a new card, a new card file, or changed the cards in a card file

The only Integrator change that requires a rerun of the export is a change to the business object title.

If you have not added or changed L1 user options, then you do not have to run the L1 export again. A single run of the public or private metadata export job meets the requirement.

Re-exporting metadata from IDF to Workspace

If you make changes in IDF that affect the IDF cards such as adding additional objects or IDF L1 Tasks such as adding additional user options, then you must run the appropriate Export host jobs again.

If your change does not affect L1 tasks, then you can run the **Export public metadata to Workspace** host job or the **Export private metadata to Workspace** host job. Use the public or private version depending on whether you require public cards or public and private cards file or cards.

Exporting metadata

If your change affects L1 tasks, for example, an additional user defined L1 task, then you must run the **Export L1 data to Workspace** host job. You might have to run the **Export public metadata to Workspace** host job or the **Export private metadata to Workspace** host job afterwards. Your action depends on whether the change requires a new link from an L2 menu to an L1 menu. We recommend that you run the **Export public metadata to Workspace** host job or the **Export private metadata to Workspace** host job or the **Export public metadata to Workspace** host job or the **Export public metadata to Workspace** host job or the **Export private metadata to Workspace** host job or the **Export private** metadata to **Workspace** host job or the **Export private** metadata to **Workspace** host job or the **Export private** metadata to **Workspace** host job or the **Export private** metadata to **Workspace** host job or the **Export private** metadata to **Workspace** host job or the **Export private** metadata to **Workspace** host job or the **Export private** metadata to **Workspace** host job or the **Export private** metadata to **Workspace** host job or the **Export private** metadata to **Workspace** host job or the **Export private** metadata to **Workspace** host job or the **Export private** metadata to **Workspace** host job regardless.

After these jobs, you must run the **Export users again to Workspace** host job to configure the authority of the exported tasks in SiW. You are not required to use **Set user attributes** when reexporting users, the job sets the menu authority whether this attribute is used. If you have deliberately changed a user's initial menu in System Manager, then you must specify **No** for **Set user attributes**.

Because most of the export jobs do not support subsets, you may export more metadata than required. This result is not usually a problem because unchanged objects, card files, and cards export the same data as previously. If you have changed any of the exported data in System Manager, these changes may be overwritten by a re-export. Therefore, we recommend that you do not modify System Manager data created by an export host job. System Manager warns you if you attempt to modify System Manager data created by an export host job but does not stop you. If you must build your own menus in System Manager that refer to exported data, we recommend that you create new menus rather than modify exported ones. Avoid the menu prefix that you used in the exports, for example, IDF, to prevent a conflict.

After you run the export host jobs, you must refresh the System i Workspace data.

See "Updating Workspace Application Manager in SiW" in this guide.

Exporting multiple environments

Environments are usually independent of each other in both IDF and System Manager. You can export different IDF environments independently and with different options.

If a user in System Manager has the same initial menu identifier in all environments, then the environments interact. That is, if a user's initial menu is IDFUS00123 in one environment, then the initial menu is IDFUS00123 in all other environments. In XA, the menu might or might not have the same definition in all environments and the menu might not even exist in all environments.

The **Export public metadata to Workspace** host job does not create user specific menus. The default menu is IDF. The default menu can be changed; however, the menu length must always be 3 characters.

The **Export private metadata to Workspace** host job creates specific user menus that allow access to the user's private card files and cards. The names of these menus are the selected prefix, **IDF** by default, followed by **US** and a number. The numbers are assigned sequentially, for example, 00001, 00002, 00003, in the first run of the host job. When the job is run for a second or later environment or rerun for the first environment, any previously exported user is assigned the same number. Users not previously exported are assigned a new number. Therefore, the user menu numbers may not be consecutive on the second or subsequent export.

Problems can occur if private metadata is exported in one environment and not another since one environment assigns an initial menu such as IDFUS00123 and the other environment, IDF.

To avoid problems with initial menus, we recommend these guidelines:

- If you export private metadata in one environment, do so in any other environments as well. If necessary, re-export environments that were previously exported with only public data.
- Use the same menu prefix in all environments. We recommend that you use the default menu prefix, IDF, unless a clash with existing menus occurs.
- If some users have an incorrect initial menu because you changed from public to private export host jobs or changed the prefix, then run the **Export public metadata to Workspace** host job again or the **Export private metadata to Workspace** host job with **Set user attributes** specified as **Yes**.

If you are familiar with System Manager, you can use System Manager functions to specify or correct user's initial menus or authority. If you change user's initial menus or authority in System Manager, we recommend that you specify **No** for **Set user attributes** in the **Export public metadata to Workspace** host job or the **Export private metadata to Workspace** host job.

Example of exporting multiple environments

Menus are defined in environments. For example, the menu SOMEMENU in environment AA is not necessarily the same as the menu SOMEMENU in environment BB and the menu might not exist in environment CC. However, the initial menu for a user does not specify an environment. So, if you change the initial menu for SOMEUSER to SOMEMENU, then you need to ensure that SOMEMENU exists in all the environments that SOMEUSER accesses. SOMEMENU is not required to be the same in all the environments, but it must exist. Because of this requirement, you must either use the Export public metadata to Workspace host job in all environments or Export private metadata to Workspace host job in all environments.

For example:

- The Export public metadata to Workspace host job is run for environment AA. The menu IDF is exported and specified as the initial menu for all users. At this point, all users must be able to access SiW for environment AA and see the menu IDF.
- The Export private metadata to Workspace host job is run for environment BB. User specific menus such as IDFUS00123 are generated and specified as the users' initial menus. For example, user JOHNDOE has his initial menu specified as IDFUS00123. JOHNDOE can successfully access SiW for environment BB and see his personal menu but gets an error when he tries to access environment AA since there is no menu IDFUS00123 in environment AA.

If the two export host jobs had run in the reverse order, then the problem is different. If the Export public metadata to Workspace host job is run second, the initial menu for JOHNDOE and other users is changed to **IDF**. JOHNDOE can access SiW in both environments but only sees menu IDF. He does not see his personal menu IDFUS00123 in environment BB.

This example assumes that the **Default** menu prefix has been used in all exports and that **Set user attributes** is **Yes**. The result is different with other settings but in all cases problems happen. Your only solution is to either use the public job for all environments or the private job for all environments.

The Export private metadata to Workspace host job ensures that the same menu name is used in all environments. If JOHNDOE is assigned IDFUS00123 in environment AA, then he is assigned IDFUS00123 in BB.

Note: Refer <u>KB 2105811</u> on Export Metadata log and Export L1 data log for further reference.

Updating Workspace Application Manager in SIW

After the completion of Export metadata, the users must update the Workspace Application manager to update the definitions, exported from IDF to System Manager, in SiW.

1 Open the utility by specifying this URL for SiWA:

https://<hostname>:<port>/<web-contextname>/admin.html

- 2 Navigate to Update Definitions under Application Manager.
- 3 Choose the respective profile from the Choose Profile list.
- 4 If you are performing this process for the first time after environment setup or after metadata export, then select **Update main Application Manager definitions** and click **Update**.
- 5 Click Select all to select all users and roles or select a specific user.
- 6 Select the **Update main Application Manager definitions** check box to ensure all definition updates in System Manager are reflected in System i Workspace.
- 7 Click Update.

Note: See "System i Workspace additional configuration" in the System i Workspace AnyWhere Installation & Administration Guide.

Chapter 6 Additional configuring in SiW

Additional configuration is required in SiW after you export your metadata.

Changing System i properties

- 1 Locate the SiWA WebSphere system.properties file as documented in the *System i Workspace AnyWhere Installation Guide*.
- 2 Add this property to enable SiWA to launch from Infor OS:
 - Property: com.infor.siw.cloud.mingle.url
 - **Description**: The URL, minus any context path, of the Infor OS server that is hosting SiWA. This URL must be correct to prevent ClickJacking, or the browser will not let System i Workspace execute inside Infor OS. For example: <u>https://mingle.your-enterprise.com</u>
- **3** Restart System i Workspace. For an IBM i deployment, ensure the server1 application server and HTTP server are also restarted.

Configuring Single Log Out

If using SiWA FP 14 or above, these settings are discontinued and will not be available for you.

To configure Single Log Out (SLO) in the System i Workspace, go to System i Workspace AnyWhere Administration interface (admin.html) > Workspace Configuration > Profiles > Xi Platform Integration settings > Single Log Out Behaviour.

This table shows the SLO options within the System i Workspace.

Setting	Description
Allow and terminate all System i Emulator sessions	The Sign Out option inside the System i Workspace AnyWhere Application menu is hidden. To sign out, the user must use the Infor OS Sign out option.
	If the user signs out of Infor OS while having active 5250 AnyWhere Emulator sessions, the sessions are disconnected from the client, but preserved on the System i Workspace server. The sessions are automatically recovered and restored when the user next signs into System i Workspace
	If the user signs out of Ming.le while having active System i Emulator sessions, the sessions are terminated unless using the System i Workspace Telnet Proxy, which can cause object and record locks within your system. Customers, that do not use the System i Emulator, must use this setting.
	Note : This option is the recommended setting for customers who use the 5250 AnyWhere Emulator for running the daily SIM tasks in the enterprise.
Block if any active System i Emulator	The Sign Out option inside the System i Workspace AnyWhere application menu is displayed. Users must manually exit any System i Emulator tasks, and then sign out of System i Workspace before signing out of Infor OS. This is the default setting.

System i Workspace additional configuration

System i Workspace is configured during the installation process so, by default, no additional configuration is needed to start and use System i Workspace.

However, you may want to add additional environments and additional profiles by referring to the *System i Workspace AnyWhere Installation & Administration Guide*.

Chapter 7 Configuring XA in Infor OS

Use the steps provided in this section to configure XA with Infor OS On-Premises and using Ming.le.

As mentioned in "Post installation," we recommend that you have one System i Workspace profile for each XA environment that you intend to configure and to match each profile with one Infor OS application. For example, you can have an XA test environment and an XA production environment, each with their own **Application** tab.

To configure the integration, log on to Infor OS with a user ID that is assigned Administrator role for the Infor OS application. We recommend that you use the same user ID used to install Infor OS, that is, SPInstall.

You can use the Infor OS environment to access the IDF views and screens. Users can access the Net-Link windows to which their user profile has authorization. Users can view all the IDF options that were exported whether the user profile has authority to the options.

Infor Ming.le uses Infor ION terminology. If you have installed Infor ION and configured ION to work with XA, use the same values that you used in that installation. If you are configuring Infor Ming.le but have not yet implemented Infor ION, note the values that you use and then use these same values when you install Infor ION.

These terms are common to Infor Ming.le, Infor ION, and integrations that use Infor ION:

• Tenant

The tenant is the container for accounting entities and locations. No data is ever shared or accessible between two tenants. Your production environment and your test environments are separate tenants. The default tenant is **Infor**.

• Accounting entity

The accounting entity is the lowest level for financial reporting. In an XA implementation, a Financial Divisions, Companies, Sites, and Warehouses are accounting entities. Accounting entities are defined as an organization node in the Financial Division, Company, Site, and Warehouse Objects.

Location

Location is a geographic site of an organizational facility or function associated with a user, typically a warehouse or an office.

• Logical ID (lid)

The logical ID is the identifier used to locate the environment. The ID is generated based upon the hostname and environment and takes the form **lid://infor.xa.{mysystemi}-{xy}**. **mysystemi** is the System i name in lower case and **xy** is the environment code also in lower case.

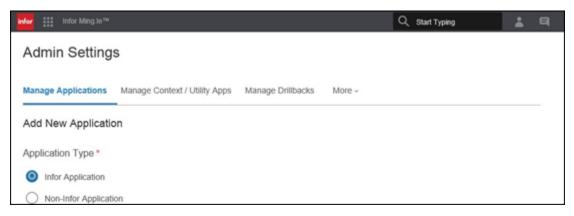
You can configure XA as an application in Infor OS by using **Admin Settings** option in Infor Ming.le. After configuring XA in Infor Ming.le, users can view XA as an application in **App Menu**, similar to other Infor applications such as CRM and EAM. User can launch XA by clicking on the XA specific option in **App Menu**.

Adding the XA application in Infor OS On-premises

- 1 Login to Infor OS using the account setup for IFS administration.
- 2 Click the **User** option in the top right-hand corner and select **Admin Settings**.
- 3 Click the + Add Application option.

iii Infor Ming.le™	Q Start Typing	▲ 티
Admin Settings		
Manage Applications Manage Context / Utility Apps Manage Drillbacks More -		
Manage Applications	+ add	

4 Select Infor Application.



5 Specify this information to create the XA application option:

Application Name

Select XA 9.1 or XA 9.2 application from the list.

Display Name

Specify a display name for this application.

Application Icon

Select an icon for the application.

Logical ID

Specify in the XA environment, which is appended to the logical make-up, the logical ID. For example, *lid://infor.xa.<environment>*.

Use HTTPS

Ensure that this setting is enabled to use HTTPS.

Host Name

Specify the fully qualified host name of your System i Workspace server.

Port

Specify the port number used by System i Workspace. By default, this field is set to 443.

Context

Specify the web context name that was defined for the System i Workspace. By default, this field is set to **systemi**.

Default Tenant

Specify the profile name defined within System i Workspace. We recommend that this field is set to the **XA Profile ID**, which is case sensitive.

- 6 Click Save.
- 7 Click OK.
- 8 Select the **Permissions** tab.
- 9 Click Add New Users and/or IFS Security Roles.
- **10** Refer to the "Create a new application security role", as displayed, to create a new security role specific to XA. Search and select the role created.

1	User or Security Role	Logical ID
) 1	XA-SIWA-Group XA-SiWA-Group	lid://infor.social.instance01

- 11 Click Done.
- 12 Click Save.

13 Click OK.

Delete Add New Users and/or IFS Security Roles			
Name	Role	Logical ID	
Infor-SystemAdministrator	IFSSecurityRole	lid://infor.social.instance01,lid://infor.social.1	
MingleAdministrator	IFSSecurityRole	lid://infor.social.instance01,lid://infor.social.1	
🗌 🔽 XA-SIWA-Group	IFSSecurityRole	lid://infor.social.instance01	

14 Click Cancel to exit.

Create a new application security role

- 1 Log into Infor OS using the account setup for IFS administration.
- 2 Click the **User** option in the top-right corner and select **User Management**.

Q Start Typing
Sharepoint Install DEV
Alerts
Tasks
Notifications
Posts
Admin Settings
User Settings
User Management
Mobile Apps
Help
About
Sign Out

3 On the Application menu, select Configure > Master Data Types > Security Roles.

+		Data Types / Security Role		
		Name	Description	Assign to New User
	◄	AttributeServiceCaller	This is an IFS role that allows the user to call the IFS Attribute	No
	-	DataAdministrator	This is an IFS role that allows the user to administer master	-8
	•	DECISIONSERVICE-	Users who can approve and activate or reject an approval	No
	•	DECISIONSERVICE-	Users who can create, update and submit an approval matrix in	No
	➡	GRIDAPP-	The users with this role has access to Activity Locator context	No
	-	GRID	Users with this mie get full administrative access to the Grid in	No

4 Click the + option to add a new security role.

\leftarrow Security Role	
Name *	
XA-SIWA-Group Description *	
XA-SiWA access role	2
Assign to New Users	

- 5 Specify a name and security role for the **Description**.
- 6 Select the **Assign to New Users** check box so that, in future, any new users that you add to Infor OS can automatically get access to this new security role.
- 7 Click the + option to add users to the security role. If you have not yet added any users, then refer to "Adding users" for adding users into Infor OS.

Configuring XA in Infor OS

ssiyi	Users to Security R	2103	+ ADD	+ ADD & CLOSE X
		Search for Use	janykhan	Q
<	User ID	Name	Email Address	
	INFOR\jpatan1	JanyKhan Patan	JanyKhan.Pat	an@infor.com

- 8 Specify the username you want to add to the security role in the **Search for Users** prompt, as displayed in the screen shot, and then click the magnifying glass option.
- 9 Select the user to add from the table and click **Add**.
- 10 Repeat the search to include each user, and then click **Add & Close** to return to the main interface.

	Security R	Role		
XA-SIWA-Group Description * XA-SIWA access role Image: Assign to New Users Users Documents Identity Repository Groups SCIM Groups Applications Image: I				
XA-SIWA access role Assign to New Users Users Documents Identity Repository Groups SCIM Groups Applications Image: Second		Group		
Assign to New Users Users Documents Identity Repository Groups SCIM Groups Applications Image: Stress of the stress of th	escription *			
Users Documents Identity Repository Groups SCIM Groups Applications + = - Name - - Name INFOR\ipatan1 JanyKhan Pata JanyKhan Pata - - - INFOR\apurnam INFOR\apurnam Abhinav Purna - </td <td>KA-SIWA a</td> <td>access role</td> <td></td> <td></td>	KA-SIWA a	access role		
Users Documents Identity Repository Groups SCIM Groups Applications + = - Name - - Name INFOR\ipatan1 JanyKhan Pata JanyKhan Pata - - - INFOR\apurnam INFOR\apurnam Abhinav Purna - </td <td></td> <td>/</td> <td></td> <td></td>		/		
User ID Name INFOR\jpatan1 JanyKhan Pata INFOR\apurnam Abhinav Purna INFOR\apurnam Akash Dixit				
User ID Name INFOR\jpatan1 JanyKhan Pata INFOR\apurnam Abhinav Purnat INFOR\adixit Akash Dixit	ers Do	Jocuments Identity Repository Groups	SCIM Groups Applications	
INFOR\jpatan1 JanyKhan Pata INFOR\apurnam Abhinav Purnat INFOR\adixit Akash Dixit	Î			
INFOR\apurnam Abhinav Purna INFOR\adixit Akash Dixit		User ID	Name	
INFOR\adixit Akash Dixit		INFOR\jpatan1	JanyKhan Patan	
		INFOR\apurnam	Abhinav Pumam	
INFOR\AEkinci Ali Ekinci		INFOR\adixit	Akash Dixit	
		INFOR\AEkinci	Ali Ekinci	
INFOR\asingh10 Amit Kumar Sir		INFOR\asingh10	Amit Kumar Singh	

The table is updated with the selected user profiles.

11 Click the **Save Item** option to apply the users to the security role.

Launch XA in Infor OS On-premises

Go to App Menu and click the XA application option.

ION Desk			
L2M-PP (Websphere)	L2M- EE(Tomcat)	DP1-TT (Websphure) DP1-TT	(Websphere)
L2C- EE(Websphere	L2M-GG (Websphere)	Enfor CRM ST 9.0)
EAM Cloud			
14 4	1 2 3	► ►I	0
		active	paused

The XA application is launched with menu and other details to access.

DP1-TT (Websphere)			Q Start Typing	≥ <	
	Infor Development Framework				
Infor XA 10.0 - (1)		Q		*	٠
My Favorites 🖿 🕞 …	My Tasks	··· My Notes			
 Customers System-Link Destinations System-Link Requests Object Settings Application Settings Customer Orders and Quotes Purchase Orders Maintain Default Ship-Vias Schedules Display Purchase Order Installments 	 Customer Service Default Liberty LoDolce LoDolce Customer Service LoDolce Inventory LoDolco Shop Floor NetLink Sales Rep Receiving Shipping 	My Notes			
Task Search	Q	•••			

Chapter 8 Single Sign-On within Infor OS Onpremises

SiWA is the user interface for Infor XA. If you intend to use SiWA with Infor OS on-premises. This chapter describes the steps to enable the Single Sign-On (SSO) functionality to launch SiWA from within Infor OS On-Premise using ADFS or STS.

Note: SiWA should be running on FP 13, at least, and latest Infor OS for SSO with Infor OS to work without any issues.

This chapter covers SSO enablement for these combinations:

- SiWA with Windows deployment (Tomcat) on Infor OS On-premise using Kerberos SSO.
- SiWA with Windows deployment (Tomcat) on Infor OS On-premise using SAML SSO.
- SiWA with IBMi deployment (WebSphere) on Infor OS On-premise using Kerberos SSO.
- SiWA with IBMi deployment (WebSphere) on Infor OS On-premise using SAML SSO.

If users are going to be using SSO for both SiWA and a 3rd Party 5250 Emulator such as IBM Access for I, then we recommend that each IBMi user has its **Set password to expired set** field set to **no** and the **User password** set to a random GUID password which cannot be guessed.

Note: If IBMi users have their **Set password to expired** set to ***YES**, this causes the **Change Password** window to appear during a SSO if the user's password has expired.

Kerberos SSO

To implement Kerberos SSO, refer to the process described in the "Enabling SSO with Microsoft AD and IBMi EIM" section of the *System i Workspace AnyWhere Installation & Administration Guide*.

Security Assertion Markup Language SSO implementation

Use these steps for Infor OS On-premises implementation.

Obtaining the setup zip file

To obtain the setup zip file, download the **InforOS_SSO_Setup zip** file from the SiWA solution KB 1963350 in Infor Concierge.

This file must be extracted or copied to the root directory of a Microsoft Windows PC or Server that has Amazon Corretto Java 8 installed and has the **JAVA_HOME** environment variable and **PATH** variable correctly configured to point to a valid Amazon Corretto Java 8 executable.

Updating the service provider metadata

- 1 Copy the file **sp_XA.properties** to **sp.properties**.
- 2 Update the following properties within the **sp.properties** file.

Property	Description
sp.entityid	Replace TENANT with the environment code being used within SiWA: ERP_XA_TENANT
sp.common.name	Replace siwa-hostname.domain.com with the hostname and domain of the SiWA server.
sp.sso.url	Replace server-name.domain.com with the hostname and domain of your SiWA server: https://siwa- hostname.domain.com:443/systemi/CloudIntegrationServlet
sp.slo.url	Replace server-name.domain.com with the hostname and domain of your SiWA server: https://siwa- hostname.domain.com:443/systemi/fedletSloPOST
sp.fedletadapter.class	Specify com.geac.xtrane.servlet.http.CloudSLOFedletAdapter.

- **3** To continue implementing your SAML SSO, see the next set of task steps for the Infor OS OP you are using:
 - Infor OS OP ADFS: "Creating the Infor OS OP ADFS identity provider and fedlet metadata"
 - Infor OS OP STS: "Creating the Infor OS OP STS identity provider and fedlet metadata"

Creating the Infor OS OP ADFS identity provider and fedlet metadata

1 Copy the file idp_ADFS.properties to idp.properties.

2 Launch this URL from any browser, replacing **adfs-server-name.domain.com** with the hostname and domain of your ADFS server:

https://adfs-server-name.domain.com/federationmetadata/2007-06/federationmetadata.xml

You are asked to download the FederationMetadata.xml file.

- 3 Open this file in Microsoft Windows Notepad and locate the Signing Certificate, which can be found under the element <*KeyDescriptor use="signing">* and between these elements <*X509Certificate>Signing Certificate</X509Certificate>*.
- 4 Copy the signing certificate without the elements.
- 5 Update these properties within the **idp.properties** file:

Property	Description
idp.adfs.entityid	Replace adfs-server-name.domain.com with the hostname and domain of your ADFS server:
	http://adfs-server- name.domain.com/adfs/services/trust
idp.adfs.location	Replace adfs-server-name.domain.com with the hostname and domain of your ADFS server:
	https://adfs-server- name.domain.com/adfs/ls/
idp.adfs.certificate	Paste in the IDP Signing Certificate that you copied.

6 Run the build-metadata.bat command with the following parameters: **build-metadata.bat /OP** /ADFS sp.properties idp.properties.

This command creates a populated set of fedlet metadata in the fedlet_config folder.

7 Go to Copying the fedlet metadata folder.

Creating the Infor OS OP STS identity provider and fedlet metadata

- 1 Copy the file **idp_STS.properties** to **idp.properties**.
- 2 From any browser launch this URL, replacing **sts-hostname.domain.com** with the hostname and domain of your InforSTS server:

https://sts-

hostname.domain.com:9553/inforsts/rest/metadata/000000000000000000000000000000/wsf ed/idp

You are asked to download the sts-metadata-idp-wsfed.xml file.

- 3 Open this file in Microsoft Windows Notepad and locate the Signing Certificate, which can be found under the element <KeyDescriptor use="signing">, and between these elements <X509Certificate>Signing Certificate</X509Certificate>.
- 4 Copy the signing certificate without the elements.
- 5 Update these properties within the **idp.properties** file:

Property	Description
idp.sts.entityid	Replace sts-hostname.domain.com with the host name and domain of your InforSTS server: https://sts-hostname.domain.com:9553/inforsts/infor/000000000000000000000000000000000000
idp.sts.sso	Replace sts-hostname.domain.com with the host name and domain of your InforSTS server: <u>https://sts-</u> <u>hostname.domain.com:9553/inforsts/infor/000000000000000000000000000000000000</u>
idp.sts.slo	Replace sts-hostname.domain.com with the host name and domain of your InforSTS server: <u>https://sts-</u> <u>hostname.domain.com:9553/inforsts/infor/000000000000000000000000000000000000</u>
idp.sts.certificate	Past the IDP Signing Certificate you copied.

6 Run the build-metadata.bat command with these parameters: **build-metadata.bat /OP /STS sp.properties idp.properties**.

This command creates a populated set of fedlet metadata in the fedlet_config folder.

7 Continue with the fedlet metadata folder.

Copying the fedlet metadata folder

Copy the fedlet_config folder to the root folder of your SiWA server. For an IBM i deployment of SiWA, this folder will most likely be the ROOT folder of the IFS.

Note: For IBMi deployments, after copying the fedlet_config folder to the IFS, check that the encoding of the idp.xml file is in ANSI format. We have observed instances where this file is created in UTF-8 format, which seems to cause issues with the OpenAM API. If the idp.xml file is in UTF-8 format, then the lead bytes are not converted correctly during the copy to the IBM i IFS. If the format is UTF-8, then open in Microsoft Windows Notepad and use **Save As** to change the encoding to ANSI. Do not change the idp.xml file name.

Java runtime changes

After copying the fedlet metadata folder, you need to add an additional Java runtime property for SiWA to identify the location of the fedlet metadata folder:

-Dcom.sun.identity.fedlet.home=<Path to fedlet metadata folder>

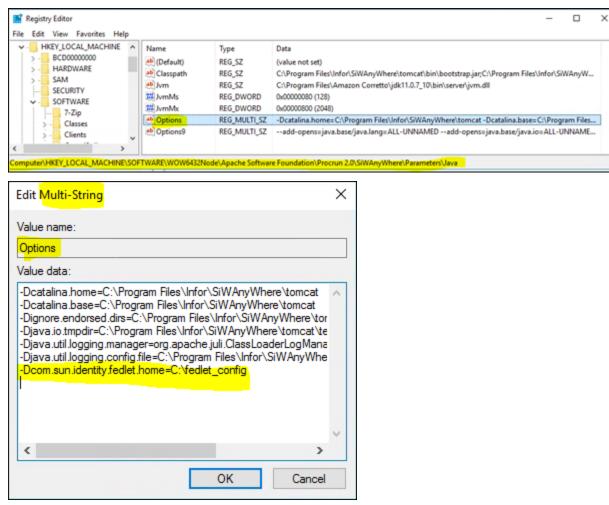
For Windows SiW deployment, see "Adding Java runtime properties to Windows SiW deployment."

For IBMi SiW deployment, see "Adding Java runtime properties to IBMi deployment."

Adding Java runtime properties to Windows SiW deployment

Using RegEdit, update this registry key to add in the additional -D parameter:

HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Apache Software Foundation\Procrun
2.0\SiWAnyWhere\Parameters\Java\Options



Adding Java runtime properties to IBMi deployment

1 Use the IBM WebSphere Administrative Console to make configuration changes. From the menus, select **Servers > Server Types > WebSphere Application Servers**.

\leftrightarrow \rightarrow C \triangle Not secure usalila	2m.infor.com:9060/ibm/conso	le/login.do		
📙 Change your Infor 🧯 Jira 📙 Integratio	ns 📙 fav S webmail 🔤	Infor Support Portal		
WebSphere. software				We
View: All tasks	Cell=usalil2m, Profile=default Application servers			
Welcome Guided Activities Servers Server Types	Application servers Use this page to view a list to change the status of a s		ur environment and the status of each o	f these servers. You ca
WebSphere application servers WebSphere MQ servers Web servers				
Applications	Name 🛟 You can administer the fo	Node 💠	Host Name 🛟	Version 🗘
+ Services	WSAnyWhere	usalil2m	usalil2m.infor.com	Base 9.0.5.4
	server1	usalil2m	usalil2m.infor.com	Base 9.0.5.4
Security	Total 2			

- 2 Select your System i Workspace AnyWhere Application server, usually WSAnyWhere for a default installation.
- 3 On the **Configuration** window, under the **Server Infrastructure** section, expand the **Java and Process Management** option.

Container Settings
Session management
 SIP Container Settings Web Container Settings
Portlet Container Settings
Container Services
 Business Process Services
Applications Installed applications
Server messaging
Messaging engines Messaging engine inbound transports WebSphere MQ link inbound transports SIB service
Server Infrastructure

4 Select **Process definition**.



5 Under the Additional Properties, select Java Virtual Machine.

ation servers > WSAnyWhere > Process definition s page to configure a process definition. A process definition defines the command line information necess uration neral Properties	rry to start or initialize a process.
neral Properties	
neral Properties	Additional Properties
·	Additional Properties
xecutable name	
	= <u>Java Virtual</u> Machine
xecutable arguments	Environment
	Entries
	Process execution
	Process Logs
1	Logging and traci

6 Locate the **Generic JVM arguments** field towards the bottom of the window. This field may have existing values.

Initial heap size
1024 MB
Maximum heap size
4096 MB
Run HProf
HProf Arguments
Debug Mode
Debug arguments
-agentlib:jdwp=transport=dt_socket,server=y,suspend=n,address=7777
Generic JVM arguments
-Diava.awt.headless=false -Dclient.encoding.override=UTF-8 - Dcom.ibm.xm.xixp.jaxb.opti.leve=3 -
Executable JAR file name
Disable JIT

7 At the end of the existing arguments, add a space followed by the path to your fedlet_config folder:

Generic JVM arguments -Djava.awt.headless=false -Dclient.encoding.override=UTF-8 -Dcom.ibm.xml.xlxp.jaxb.opti.level=3 -Dcom.sun.identity.fedlet.home=/SSO_PP/fedlet_config

8 After this setting, add these space-separated additional arguments to configure the OpenAM classes to use the IBMJCE for certificate decryption:

-DamCryptoDescriptor.provider=IBMJCE

-DamKeyGenDescriptor.provider=IBMJCE

Generic JVM arguments -Djava.awt.headless=false -Dclient.encoding.override=UTF-8 -Dcom.ibm.xml.xlxp.jaxb.opti.level=3 -Dcom.sun.identity.fedlet.home=/SSO_PP/fedlet_config -DamCryptoDescriptor.provider=IBMJCE -DamKeyGenDescriptor.provider=IBMJCE

9 Click Apply and Save.

Changing system properties

- 1 Locate the System i Workspace AnyWhere WebSphere system.properties file as documented in the System i Workspace AnyWhere Installation Guide.
- 2 Add these properties:

Property	Description
com.infor.siw.cloud	Set to 1 to enable SSO via Infor OS.
com.infor.siw.cloud.idp.properties	Specify the path to the SAML metadata folder used by SiWA to extract values from the metadata needed at runtime such as the Epoch Cookie name and domain.
	Example for SiWA Windows deployment:
	com.infor.siw.cloud.idp.properties=C:/fedlet_config
	Example for SiWA IBMi deployment:
	com.infor.siw.cloud.idp.properties=/fedlet_config
com.infor.siw.cloud.mingle.url	The URL, minus any context path, of the Infor OS server that is hosting SiWA. This is used to prevent ClickJacking so the URL must be correct, or the browser will not let SiWA execute inside Infor OS. For example: <i>com.infor.siw.cloud.mingle.url=https://IOS-hostname.domain.com</i>

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Property	Description
com.infor.siw.cloud.mingle.slo.url	The URL, minus any context path, from either the idp.adfs.location, idp.sts.slo or idp.saml.slo.url property value from the file idp.properties. This is used to prevent ClickJacking so it must be correct, or the browser will not let SiWA log out correctly from InforOS, For example: <i>com.infor.siw.cloud.mingle.slo.url=https://slo-hostname.domain.com</i>

3 Save the changes. SiWA can now be restarted.

For an IBM i deployment, ensure the server1 application server and HTTP server are also restarted.

You can now only access pages within SiWA after signing into the Infor OS platform. Direct access is now disabled.

Updating Infor OS Manager application

1 Log into the Infor OS Manager from your Infor OS server as displayed and click **Continue**.

Info	or OS Manager	
Database Server :	usalvwxadvsql01.infor.com	
Database Instance :		
Database Type:	SQL Server	•
Port :	1433	
Authentication Mode :	SQL Server Authentication	•
User Login :	sa	
Password :	*****	\checkmark
Infor OS Farm :	Infor_OS_Farm	•
	Continue	Cancel

- 2 Click **Applications** and locate the XA application.
- 3 Double-click the XA application.

*) 0	Infor OS (OS)	+ 💼							
oject	Bootstrap	Applications							
Object Browser	Registry	Name	Description	Relying Par	SSO Url	Application	SLO Url	SSO Applic	Download
9	Machines	Grid-XiPlatfor	Grid SAML Se.	um:Infor_OS	https://usalv	GRID	https://usalv		*
	Clusters	HOMEPAGES	HOMEPAGES			HOMEPAGES			
	Application Containers	IDM	IDM			IDM			
	Database Instances	IFS	Infor Federati			IFS			
	Applications	INBOX	INBOX			INBOX			
	System Configurations	INFORSTS	INFORSTS	um:Infor_OS	https://usalv	INFORSTS	https://usalv		÷
	Tenant Configurations	ION	ION			ION			
	Services	IONAPI	IONAPI			IONAPI			
	Certificate	XA	XA_LO2	ERP_XA_54	https://usalil2	ХА	https://usalil2	XA	₹0
	CloudSuite	► XA_L2C	XA-L2C	ERP_XA_54	https://usalil2	ХА	https://usalil2	XA_L2C	÷

4 Specify this information:

Relying Partner Identifier

Specify the value that matches the value of the property **sp.entityid** from the **sp.properties** file.

SSO URL

Specify the value that matches the value of the property **sp.sso.url** from the **sp.properties** file.

SLO URL

Specify the value that matches the value of the property **sp.slo.url** from the **sp.properties** file.

os Application		×
Application Name :	XA-L02-59	
Description :	XA SiW Infor STS certification instance	
Application Type :	XA(ERP Discrete iEnterprise (XA))	•
SSO Application :	INFORSTS	•
Relying Party Identifier :	L0259	
SSO Url :	https://USALVWWXAION12.INFOR.COM:8080/systemi/C	loudl
SLO Url :	https://USALVWWXAION12.INFOR.COM:8080/systemi/fe	edlets
Signing Certificate :	(none)	
	Save	

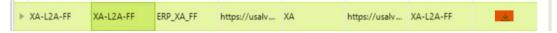
- 5 Click the button for the **Signing Certificate** field to select the certificate **SiW_Certificate1.cer** found in the root of the fedlet_config folder.
- 6 Click Open.
- 7 Click Save.

To continue implementing your SAML SSO, see the next set of task steps for the Infor OS OP you are using:

- Infor OS OP ADFS: See "Updating the Infor OS OP ADFS server through the ps1 file."
- Infor OS OP STS: See "Updating the Infor OS OP STS through the InforSTS."

Updating the Infor OS OP ADFS server through the ps1 file

1 Click the **Download** option for the XA application.



2 Specify a download path or use the **Search** button to find the path.

Download Path			
C:\			
Identity Provider :	usalvwxadvsql01.inf	or.com	•
		Download	Cancel

3 Click Download.

A Infor_OS_L1619608944_XA-L2A-FF_ADFS_IFS_Add_RP 2/21/2023 2:55 AM Windows PowerS...

- 4 Copy the .ps1 file to the root of your ADFS server.
- 5 Log on to the ADFS server.
- 6 Open the Windows PowerShell as an Administrator.
- 7 Run the command **Set-ExecutionPolicy Unrestricted** and confirm the execution policy by typing **Y** and pressing **Enter**, if required to do so.



8 Locate the .ps1 file downloaded in above steps and then run as displayed.

	IsSerial	Name	BaseType
True	False	SwitchParameter	System.ValueType
True	False	SwitchParameter	System.ValueType
True	False	SwitchParameter	System.ValueType
True	False	SwitchParameter	System.ValueType
Creating	RP for In	nfor_XA-L2A-FF_OS_L1619608944	

- 9 Launch the ADFS Management console.
- 10 Select Trust Relationships > Relying Party Trusts and locate your application.
- 11 Note the reference ID of your application. For example, OS_L1619608944.
- 12 Right-click your application and select Edit Claim Issuance Policy.

💠 🖶 🖄 💼 🖬 💼	Relying Party Trusts	_	-		Actions
Access Control Policies Access Control Policies Relying Party Trusts Claims Provider Trusts Application Groups	Daplay Name Hdor_Gnd-XiPlatform_OS_L1619600944 Hdor_INFORSTS_OS_L1619600944 Hdor_XIPORTAL_OS_L1619600944 Hdor_XA_OS_L1619600944 Hdor_XA_OS_L1619600944 Hdor_XA_L2M-EE_OS_L1619600944 Hdor_XA_L2C-6_OS_L1619600944 Hdor_XA_L2C-65_OS_L1619600944 Hdor_XA_L2C-65_OS_L1619600944	Enabled Yes Yes Yes Yes Yes Yes Yes Yes Yes	WS-T WS-T WS-T WS-T WS-T WS-T WS-T	Identifier um:Hfor_OS_L1619600344:Gnd_XPI. um:Hfor_OS_L1619600344:Infonts um:Hfor_OS_L1619600344:potal https://usalvwadotar/oral/ https://usalvwadotar/ ERP_XA_EG ERP_XA_EG ERP_XA_EE ERP_XA_L2XEG ERP_XA_L2C54 ERP_XA_L2C54 ERP_XA_L2C54	Relying Party Trusts Add Relying Party Trust View New Window from Here C Refresh Help Infor,XA-L2A-FF_OS_L161960 Update from Federation
	Her XAL02.00 OS L1619600344 Her XAL2AFF OF L1619600344 Update from Federa Edit Access Control Edit Claim Issuance Disable Properties Delete Help	Yes tion Metadata Policy	WS-T	ERP_XA_DO ERP_XA_FF	Edit Access Control Poli. Edit Claim Issuance Poli. Disable Properties Clete Help

13 Click Add Rule.

Jance 1	fransform Rules	Issuance Authorization Rule	s Delegation Authorization	Rules
The folio	wing transform n	ules specify the claims that wil	I be sent to the relying party.	
Order	Rule Name		Issued Claims	
1	INFOR-GENER	ATED: Emit Customer	<see claim="" rule=""></see>	
2	INFOR-GENER	ATED: Emit Identity (strip	<see claim="" rule=""></see>	
3	INFOR-GENER	ATED: Emit Identity2 (co	<see claim="" rule=""></see>	
4	INFOR-GENER	ATED: Emit IFSUserLook	<see claim="" rule=""></see>	
5	INFOR-GENER	ATED: Emit ClientPrincip	<see claim="" rule=""></see>	
6	INFOR-GENER	ATED: Emit IFS Person I	<see claim="" rule=""></see>	
7	Emit Environme	nt Type	<see claim="" rule=""></see>	
8	Custom rule for	internal Transient ID	<see claim="" rule=""></see>	
9	Custom rule to	emit a transient NameID	<see claim="" rule=""></see>	
10	Emit temporary	IDs for customer and tenant	<see claim="" rule=""></see>	E
11	Emit temporary	IDs for user	<see claim="" rule=""></see>	
12	Emit Customer	claim	Customer	
13	Emit Tenant cla	im	<see claim="" rule=""></see>	
14	Pass Through I	dentity claim	Identity	
15	Pass Through I	dentity2 claim	Identity2	
16	Pass Through (Client Principal claim	Client Principal Name	
17	Emit IFS Auther	ntication Mode	<see claim="" rule=""></see>	
			1	
Add R	Edit F	Rule Remove Rule		

14 Select the Send Claims Using a Custom Rule option from the list.

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Q.	Add Transform Claim Rule Wizard
Select Rule Templat	e
Reps	Select the template for the claim rule that you want to create from the following list. The description provides details about each claim rule template.
Choose Rule Type Configure Claim Rule	Claim rule template:
	Send Claims Using a Custom Rule
	Claim rule template description:
	Using a custom rule, you can create rules that can't be created with a rule template. Custom rules are written in the AD FS claim rule language. Capabilities that require custom rules include: Sending claims from a SQL attribute store Sending claims from a custom attribute store Sending claims only when 2 or more incoming claims are present Sending claims only when 2 in incoming claim value matches a complex pattern Sending claims for use only in later rules Creating claims for use only in later rules
	< Previous Next > Cancel

15 Click Next.

- 16 Specify Emit ERP Person ID claim for the Claim rule name.
- 17 Add this information into the **Custom rule** field. Change the reference ID to the reference ID of your application, which you made a note of earlier from **Relying Party Trusts** on the ADFS console:

c1:[Type == "http://schemas.infor.com/claims/userid"]=> issue(store = "Infor_OS_L1619608944_InforFS data store", types = ("http://schemas.infor.com/claims/ErpPersonId"), query = "WITH XMLNAMESPACES ('http://schemas.infor.com/claimvalues' as ins) select Xml=(select BOD.PersonID as 'ins:PersonID', BOD.AccountingEntity as 'ins:AccountingEntity', BOD.Lid as 'ins:LogicalId' for xml path('ins:ErpPerson'),elements) FROM dbo.Users USR JOIN dbo.Properties P on USR.Id = P.UserId JOIN dbo.PropertyTypes PT on P.PropertyTypeId = PT.Id JOIN dbo.PersonBODs BOD on BOD.DistinguishedName = P.Value where PT.Name = 'UPN' AND USR.Id = {0}", param = c1.Value);

Configure Rule	
Steps Choose Rule Type Configure Claim Rule	You can configure a custom claim rule, such as a rule that requires multiple incoming claims or that extracts claims from a SQL attribute store. To configure a custom rule, type one or more optional conditions and an issuance statement using the AD FS claim rule language. Claim rule name:
	Emit ERP Person ID
	Rule template: Send Claims Using a Custom Rule Custom rule:
	<pre>cl:[Type == "http://schemas.infor.com/claims/userid"]=> issue(store = "Infor_OS_LL61660844_InforFS data store", types = ("http://schemas.infor.com/claims/ErpPersonId"), query = "WITH XMLNAMESFACES ('http://schemas.infor.com/clainvalues' as ins) select Xml=(select BOD.PersonID as 'ins:PersonID', BOD.AccountingEntity as 'ins:AccountingEntity', BOD.Lid as 'ins:LogicalId' for xml path ('ins:ErpPerson'),elements) FROM dbo.Users USR JOIN dbo.Properties P on USR.Id = P.UserId JOIN dbo.PropertyTypes PT on P.PropertyTypeId = PT.Id JOIN dbo.PersonBODs BOD on BOD.DistinguishedName = P.Value where PT.Name = 'UPN' AND USR.Id = {0}", param = cl.Value); </pre>

18 Click Finish.

- 19 Click Ok.
- 20 Right-click your application and select Edit Access Control Policy.

🕈 🔿 🙋 📷 🖬 📷				
AD FS	Relying Party Trusts			Actions
Service Access Control Policies	Display Name	Enabled	Type Identifier	Relying Party Trusts
Relying Party Trusts Claims Provider Trusts Application Groups	Hdu, Cark-XPlastom, OS, L1519002944 Hdu, NNOR575, OS, L1519002944 Hdu, NPOR724, OS, L1519002944 Hdu, Rameas Vaxt, OS, L1519002944 Hdu, XA, OS, L1519002944 Hdu, XA, 205, L1519002944 Hdu, XA, 2264, OS, L1519002944 Hdu, XA, 2264, OS, L1519002944 Hdu, XA, 2264, OS, L1519002944	Yes Yes Yes Yes Yes Yes Yes Yes	WB-T. um HHg_05_1_M19500544 God WB-T. um HHg_05_1_M19500544 pod WB-T. um HHg_05_1_M19500544 pod WB-T. Https://usalvhadti1022.000 Hd WB-T. ERP_XA_65 WB-T. ERP_XA_65 WB-T. ERP_XA_65 WB-T. ERP_XA_254 WB-T. ERP_XA_55 WB-T. ERP_XA_254	9 View 9 80. New Window from Here
	Her XAL02.00_05_L1519600544 Refor XAL02.01 Update from Federa Edit Access Control Edit Claim Issuance Disable Properties Delete Help	Policy_	WS-TERP_JA_DD	Edit Access Control Pol Edit Claim Issuance Pol Disable Properties Delete Help

- 21 Click the Issuance Authorization Rules tab.
- 22 Click Add Rule.

uance 1	Transform Rules	Issuance Authorization Rules	Delegation Authorizatio	n Rules
		on rules specify the users that not contain a rule, all users wi		the relying
Order	Rule Name		Issued Claims	
1	INFOR-GENER	RATED: Emit Customer	<see claim="" rule=""></see>	
2	INFOR-GENER	RATED: Emit Identity (strip	<see claim="" rule=""></see>	
3	INFOR-GENER	RATED: Emit Identity2 (co	<see claim="" rule=""></see>	
4	INFOR-GENER	RATED: Emit IFSUserLook	<see claim="" rule=""></see>	
5	INFOR-GENER	RATED: Emit ClientPrincip	<see claim="" rule=""></see>	
6	Emit Environme	ent Type	<see claim="" rule=""></see>	
7	INFOR-GENER	RATED: Pass Through E	E-Mail Address	100
8	INFOR-GENER	RATED: Pass Through Giv	Given Name	1
9	INFOR-GENER	RATED: Pass Through Sur	Sumame	
10	INFOR-GENER	RATED: Pass Through Us	UserProfile Picture	
11	INFOR-GENER	RATED: Pass Through Inf	CommunityIdentifier	w.
12	Emit temporary	IDs for customer and tenant	<see claim="" rule=""></see>	
13	Deny users of a	disabled customer	<see claim="" rule=""></see>	
14	Emit temporary	IDs for user	<see claim="" rule=""></see>	
15	Emit temporary	TenantApplication	<see claim="" rule=""></see>	
16	Permit for Tena	ntUsers and TenantAppli	<see claim="" rule=""></see>	
Add F	Nule Edit i	Rule		

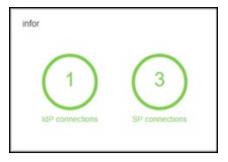
23 Select the **Permit All Users** option from the list.

\$ 1	Add Issuance Authorization Claim Rule Wizard				
Select Rule Templat	le				
Steps	Select the template for the claim rule that you want to create from the following list. The description provides				
Choose Rule Type Configure Claim Rule	details about each claim rule template. Claim rule template:				
Congore Gain Hale	Pemit Al Users V				
	Claim rule template description:				
	Using the Permit All Users rule template you can permit all users access to the relying party. You can use additional rules to further restrict access. Users who are permitted to access the relying party from the federation service may still be denied service by the relying party.				
	< Previous Next > Cancel				

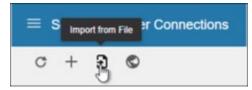
- 24 Click Next.
- 25 Click Finish.
- 26 Click OK.

Install service provider in Infor STS

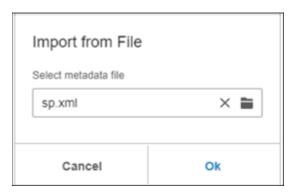
1 Launch the STS Admin UI from your Infor OS server.



- 2 Click on SP connections.
- 3 Click the **Import from File** icon.



4 Select the file sp.xml found in the root of the fedlet_config folder and then click **Ok**.



5 Specify a unique value for the **Display Name**.

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isplay Name *		
XA-USALIL02-59		
artner Entity ID *		
L0259		
escription		
SiW Anywhere for X deployed on USALV		ALIL02 - {
S application type		

- 6 Ensure that **Partner Entity ID** is **sp.entityid** from SP properties.
- 7 Select **xA** for the **IFS application type**.
- 8 Click the **Save** icon, and then click the **Back** icon.

Migration from ADFS to Infor STS as Identity Provider

To use Infor STS as Identity provider in place of ADFS, see "Appendix L: Upgrading Infor OS with Infor STS as identity provider" in the *Infor Operating Service Installation Guide* for information on upgrade your existing Infor OS.

Follow these steps when ADFS is already configured and used as Identity Provider for SSO.

- 1 Stop the SiWA service if running.
- 2 Go to SiWA installation folder and take a backup of existing fedlet_config folder used for SSO.
- 3 Delete the fedlet_config folder from the root location.
- 4 Reusing existing InforOS_SSO_Setup folder for generating fedlet_config for ADFS.
- 5 Go to InforOS_SSO_Setup folder, open and delete the existing fedlet_config folder.
- 6 Copy the file idp_STS.properties to idp.properties.

7 From any browser launch the following URL, replacing sts-hostname.domain.com with the hostname and domain of your InforSTS server:

https://sts-

- 8 Download the file sts-metadata-idp-wsfed.xml.
- 9 Open this file in Microsoft Windows Notepad and locate the Signing Certificate, which can be found under the element <KeyDescriptor use="signing"> and between these elements <X509Certificate>Signing Certificate</X509Certificate>.
- 10 Copy the Signing Certificate without the elements. You will use this certificate in the next step.
- 11 Update the following properties within the idp.properties file:

Property	Description
idp.sts.entityid	Replace sts-hostname.domain.com with the host name and domain of your InforSTS server:
	https://sts- hostname.domain.com:9553/inforsts/infor/000000000000000000000000000000000000
idp.sts.sso	Replace sts-hostname.domain.com with the host name and domain of your InforSTS server:
	https://sts- hostname.domain.com:9553/inforsts/infor/000000000000000000000000000000/ idp/samISSO
idp.sts.slo	Replace sts-hostname.domain.com with the host name and domain of your InforSTS server:
	https://sts- hostname.domain.com:9553/inforsts/infor/000000000000000000000000000000/ idp/samISLO
idp.sts.certific ate	Paste the IDP Signing Certificate you copied.

12 Run the build-metadata.bat command using these parameters: build-metadata.bat /OP /STS sp.properties idp.properties. This command creates a populated set of fedlet metadata in the fedlet_config folder.

13 Copy the fedlet_config folder to the root folder of your SiWA server or for an IBM i deployment of SiWA. The root folder to use should be the ROOT folder of the IFS.

Note: This path is already mentioned in the Java runtime changes completed in the "Copying the fedlet metadata folder" section.

System property changes

1 Locate the System i Workspace AnyWhere system.properties file as documented in the *System i Workspace AnyWhere Installation & Administration Guide*. Add the following properties and change the slo url:

com.infor.siw.cloud.mingle.slo.url=https://slo-hostname.domain.com

Note: You can use the URL, minus any context path, from any of these locations:

- idp.adfs.location
- idp.sts.slo
- idp.saml.slo.url property value from the file idp.properties
- 2 Save your changes.

Updating InforOS manager application

- 1 Log into the InforOS Manager from your InforOS server, then click **Applications** and locate the XA application you configured with ADFS in an earlier step.
- 2 Change the SSO Application to INFORSTS.

The **Relying Party Identifier** should match the value of property sp.entityid from the file sp.properties.

The SSO URL should match the value of the property sp.sso.url from the file sp.properties.

The SLO URL should match the value of the property sp.slo.url from the file sp.properties.

- 3 Click ... on the **Signing Certificate** and select the certificate **SiW_Certificate1.cer** found in the root of the fedlet config folder.
- 4 Click **Open** and click **Save**.

s Application		×
Application Name :	XA-L2C-33	
Description :	ADFS to STS migratin instance	
Application Type :	XA(ERP Discrete iEnterprise (XA))	*
SSO Application :	INFORSTS	
Relying Party Identifier :	ERP_XA_L2C33	
SSO Url :	alvwxaios02.infor.com:8443/systemi/CloudInte	egrationServlet
SLO Url :	https://usalvwxaios02.infor.com:8443/systemi/	fedletSloPOST
Signing Certificate :	C:\Users\jpatan1\Downloads\SiW_Certificate1	.cer ···
		Save

Updating the InforSTS server

1 Follow "Install service provider in InforSTS" section and install the service provide in Infor STS using sp.properties file.

Infor STS Administration Co	onsole		👗 CN=STSAdmin
Home		\equiv Service Provider Connections	
General Settings		c + 9 ©	
infor		ERP_XA_L2C33	
IdP Connection		ERP_XA_L2C33	0_ 亩
SP Connection			

2 Start the SiWA service and validate the SSO functionality.

Configuring ERP Person IDs in Infor OS for SSO

Each user that needs access to SiWA must be configured to add a mapping from the Infor OS platform to their ERP user, which is their IBMi profile ID. Mapping the IBMi profile ID to ERP Person ID is done through the User Management interface.

1 Log into Infor OS and select Users > User Management.

Single Sign-On within Infor OS On-premises

inage	/ Users	ACTION 🔻 🛛	UPLOAD SYNC	EXPORT ALL USERS	IMPORT 11.X USERS				
				Select Prop	ərty	•	Contains 💌	× jp	
		Definition Complet	e User ID	Full Name		Ema	ail Address	Last Logon	Status
		0	INFOR\jpatan1	JanyKha	n Datan	lon	nyKhan.Patan@infor.com	2/21/2023 1:39:17	Active

- 2 Use the table navigation or **Search** function to locate each user profile that you need to change.
- 3 Click the drill-down option next to the username display their properties.

First Name *	Title
JanyKhan	Team Lead, Software Development
Last Name *	Department
Patan	Development
Email Address *	Manager
JanyKhan.Patan@infor.com	INFOR\smalik QE
UPN *	Alternative Manager
janykhan.patan@infor.com	Q
User ID	IFS User GUID
INFOR\jpatan1	INFOR\jpatan1
IFS ION-Person ID *	M3 User Alias
janykhan.patan@infor.com	

If you are using Role-based authorization for access to the SiWA application, then ensure that the user is authorized to the correct role.

- 4 Select the ERP Person IDs tab.
- 5 Create a mapping between the Logical ID of the SiWA application and the IBMi username.

+			
	ERP Person ID	ERP Accounting Entity	Logical ID
	PATAJAN	L2M-EE	lid://infor.xa.usalil2m-ee
	PATAJAN	L2M-PP	lid://infor.xa.usalil2m-pp
	PATAJAN	L02-59	lid://infor.xa.usalil02-59

In this example, when a user logs in to Infor OS and accesses the Infor IBMi based application that runs inside SiWA, uses the ERP Person ID which is the IBMi profile ID of the user.

- 6 Specify the ERP person ID, ERP accounting entity, and ERP logical ID for the environment, and then click **Save**.
- 7 Repeat for each user profile that needs access to SiWA.

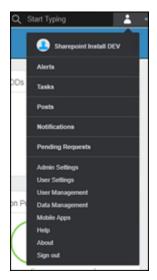
Chapter 9 Drill-back configuration

Drill-back configuration requires the deployment of a configuration file within Infor Ming.le and Infor ION. This file is supplied by XA for drill-back support.

Configuring Infor Ming.le drill-backs

To configure drill-backs in Infor Ming.le, you must import the XA_Standard_Views.xml Drillback Definition File.

- Navigate to the infor\vlib\Ming.le folder in the client IFS directory, which is the location of the XA sample solution files used for integrations through Infor OS and save the XA_Standard_Views.xml file.
- 2 Log on to Infor OS as the administrator.
- **3** Click your profile picture and select **Admin Settings**. You require an Admin profile to manage drill-backs.



4 When the Admin Settings load, click **Manage Drillbacks**. A list of drill-back definition files that are uploaded is displayed. Upload latest drillback xml if needed.

Drill-back configuration

Admin Settings

Manage Applications	Manage Context / Utility Apps	Manage Drillbacks	General Settings	
Manage Drillbacks				
Application \$		Description \$		Content Type 🛟
infor.daf		Infor Document Man	agement v12.0	Standard
infor.inbox		Infor Inbox Drillback	Views	Standard
infor.eam		EAM Drillback Views		Custom
infor.wm		SCE - WM Content		Custom
infor.xa		XA Standard views		Custom

- 5 Click UPLOAD DRILLBACK XML and browse to select the Drillback Definition.
- 6 Click Open.
- 7 Click **OK**. This step will override the old with new drillback defiintions.

age Drillbacks			+ UPLOAD DRILLBACK
Application a	0	Open	Nent Type a
	(c) (c) → ↑ (i) ← (infor XA(SiW)-OS →	drill backs v 🖒 Search dri	Il backs 🖉
lash.	Organize • New folder		H • 🖬 🛛
for.bx	How to Docs	^ Name ^	Date modifie ^
for eam	IDF Installs Infor Emails - Gowtham	drillback_mapping.xml	9/16/2019 10
	linfor OS	hyperlinks.aml	7/9/2015 3:3:
for.daf	Infor OS Documentation	inforxa.xml Inc.8,3,4.xml	9/17/2019 3-2 9/16/2019 10
for wm	Infer XA(SW)-OS documentation	Inc.8_3_5.xml	9/16/2019 10
POR. YWITH	🕌 drill backs	XA_Standard_Views.xml v <	10/27/2015 8 🗸
	File name:	V XML Doc	ument (*.xml) 🗸
		Ope	n Cancel

Drill-back definitions

These Drillback Definition files are used in Infor Ming.le to generate the drill-back links for ION tasks/alerts.

Drill-backs are supported from InforBusinessContext messages which are shared in SocialSpace or subscribed to by other Infor Ming.le applications. Each InforBusinessContext message supported by XA IDF includes a drill-back URL the receiving product can use to drill back into XA. These drill-backs are often referred to as InforBusinessContext Drillback.

Drill-backs are also supported from products integrated with XA using ION and BOD messages. Products such as Infor Reporting and ION analytics require additional configuration; see their respective guides. A drill-back can be requested to XA and the appropriate related task can be launched. These drill-backs are often called BOD DrillBacks.

This table shows the ERP XA supported drill-backs that include these BOD nouns:

BOD	Infor XA object		
AccountingEntity	Accounting Entity		
AccountingChart	General Ledger Account		
	Administrative Division		
AdvanceShipNotice	Shipment Notice		
	Shipment Container		
	Shipment Container Item		
BillToParty	Entity		
	Financial Division Vendor		
	Customer Company		
	Account		
Carrier Party	Carrier		
ChartOfAccounts	General Ledger Account Nature		
CodeDefinition	Business Information Services		
	Financial Division		
	Company		
	Payment Term Code File Unit		
	Warehouse		
	Site		
ContactMaster	Contact		
Contract	Customer Quote		
	Customer		
	Contract Quote		
CustomerPartyMaster	Customer		
FinancialCalendar	Financial Division		
FinancialPartyMaster	Entity		
	Financial Division		
	Vendor Customer		
	Company Account		
ItemMaster	Item Revision Item		
	Warehouse Item		

Drill-back configuration

BOD	Infor XA object
Invoice	Financial Transaction
	Customer Invoice
Location	Company Site
	Financial Division
	Warehouse
Opportunity	Opportunity
PayableTransaction	Financial Transaction
	Vendor Invoice
PayFromPartyMaster	Entity
	Financial Division
	Vendor Customer
	Company Account
Person	Buyer
	Sales Representative
ProductionOrder	Manufacturing Order
PurchaseOrder	Purchase Order
	Purchase Order History
Quote	CustomerQuote Quote
RemitToPartyMaster	Entity
Requisition	Purchase Request
SalesOrder	Customer Order or Quote
	Customer Order History
ShipFromPartyMaster	Entity
	Customer Ship To
SourceSystemGLMovement	GL Account Period Balance
	GL Account Period Budget
	General Ledger History
	General Ledger Activity
SupplierInvoice	Financial Transaction Vendor Invoice
	Customer Receivables
SupplierPartyMaster	Entity Vendor
SupplierQuote	Quote

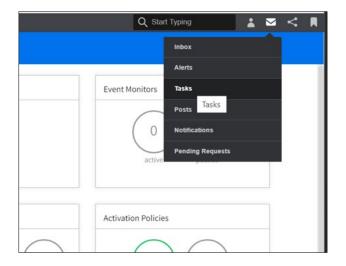
Drill-back configuration

BOD	Infor XA object
SupplierShipmentSchedule	Purchase Order
	Purchase Order History
TradingPartner	Entity
	Financial Division Vendor Customer Company Account

Using drill-backs in Infor Ming.le and context/utility app

To use the drill-back functionality in Infor Ming.le and Tasks Context/Utility Apps, configuring drillbacks and enabling Tasks Context/Utility app for that XA environment in Infor Ming.le is a prerequisite.

1 Click Inbox > Tasks in Infor OS to view Activity Feed > My Tasks.



Connections +	My Tasks (50)			
+ CREATE A GROUP	PO number: PEV0563 2019-11-22 is having status Open	Today at 5:00 AM		
	5 Show Details Share			
Following +	PO number: PEV0030.2019-01-21 is having status Open	Yesterday at 12-10 AU		
	Steve Details Share			
	PO number: PEV0002.2018-12-05 is having status Open	1129/2019 7:31:40.40		
	Store Cetals Stare			

2 Click **Show Details** to open and select the **Drillback** link as highlighted in this screenshot.

🙆 Task			
The PurchaseOrder P001844.2022-12-22 ha	s been created.		
ASSIGN T XA PO Drill			
inforPulseTask:1229 #inforPulseWorkflo	ow:1275		
DONE			
Parameters			
AE:	DP1-TT	LID:	lid://infor.xa.us
ID:	P001844.202		
Attachments			
Add Attachments			
Workflow Progress Indicator			

3 Click the **Drillback** link. The page is redirected to the specific XA object. In this example, the page is Purchase order.

Continue File	DISPLAY A MASVEN WMSVENDOR	Help 4 Default v Ø		/ t 🛱 G	
General Processing	d Approved	lidus			
Created: Buyer:	P001844 12/22/2022 >> WMS [D] WMS_Buyer Accepted	Ship-to Bill-to Vendor Warehouse: SCE [D] Ship-to: 999 [D] Name: Ship-to ID Address: Address: 345 Main Street	,	Show comment separators Order Closeout Internal	Effective date: 02/2
Request approval:		(blank) City: Marietta State: GA = Georgia Postal code: 30066	K		¥1
Items Overview	fotals All	Ŧ			
Identification		Wareh Contract	Quantity UI	M Price	Extended amount 8
E Line: 1 W	MSHOLDITEM WMS Hold Item	SCE	0.000 EA	A 0.0000	0.0000

Configuring the IDF Context application

You can configure the IDF Context application in Infor Ming.le. When configured, the application is displayed on the right-side of the window.

To use the IDF Context application, System i Workspace must be at PTF level 16 or later.

Enabling IDF Context applications

1 In Infor OS, go to Admin Settings > Manage Context/Utility Apps. Context App Primary View, Context App Secondary View, and Context App Tertiary View are displayed.

Infor Ming Je ***		
Admin Settings		
Manage Applications Manage Context / Utility App	Manage Drillbacks General Setting	5
Manage Context / Utility Apps		+ ADD CONTEXT/UTILITY APP
Name		Туре
Alerts		UtilityApp
Context App Primary View		ContextApp
Context App Secondary View		ContextApp
Context App Tertiary View		ContextApp
Context Viewer		ContextApp

2 Click Context App Primary View to view the details.

Drill-back configuration

Manage Applications Manage Context / Utility Apps Man	age Drilbacks General Settings	
manage represents manage context round representation	eye oninoeda o oonena ooninga	
Context/Utility App Details		
Name *		
Context App Primary View		
Type *		
Context App	•	
Description *		
Context App Primary View		
Permissions Context Message Applications		
Delete Add New Users and/or IFS Security Roles 🥑 Grant acce	ess to all users	
Name Name	Role	Logical ID
🗆 🔽 XA-SW	IFSSecurityRole	lid://infor.social.instance01
Cancel Save		

- 3 In the **Permissions** tab, add the security role created for XA in "Create a new application security role". All the users under this security role can view this Context App while accessing XA.
- 4 Select the **Context Message** tab and add these messages as displayed. Refer <u>KB 2046253</u> for more details.

Permissions	Context Message	Applications	
Delete Add	Message		
Message	Name		
inforBu	sinessContext		
siwLogi	n		
siwLog			
Cancel	Save		

5 Select the **Applications** tab and enable the toggle for required XA application.

Permissions Context Message Applications				
Delete AddTemove Applications				
Application Name and Version	Logical ID	Enabled		
C XA-9.2	lid:/inforxa.usalii2c-qr	-•		
XA	lid://infor.xa.usalip20-9a	•		

6 Launch XA and click the double arrow option in the top right corner to launch Context apps.

	Q Start Typing	<		*
م		*	٠	
^	My Notes My Notes			•

Drill-backs in Task Context/Utility app

Tasks Utility App enabled in **Manage Context/Utility App** enables users to view the tasks in the right-side corner of SiWA System i window. A list of tasks available for the current user is displayed.

1 Click More > View Details. The Task details window is displayed.

			- 0 ×
			Q 🖈 \varTheta :
		Q si	art Typing 🔰 📥 🗧 🗮 😕
			Context App Primary View
	*	• …	Tasks
â ···			

2 Click on the drill back symbol to view the drillback link.

	Task
	PO number: PEV0563.2019-11-22 is having status Open
1	Today at 5:08 AM
	ASSIGN TO ME ASSIGN
	inforPulseTask:1607 #inforPulseWorkflow:336

3 Click the drillback link to launch and redirect to PO details in XA.

Continue File / Display / M	Maintain J Help J Default (R7) V 🖉 🐨 🛱 🚺 🛱 🚺
ieneral Vendor Preferences Ve	erdor Address Ship-to Address Bill-to Address Items Variance Amounts Dates Overview Replication Approval Co
Order status:	Complete
Revision:	0
Invoice status:	Yes
Buyer:	BC1 [D]
Name:	Barb Buyer 1
Vendor:	EAM-EE (D)
Vendor name:	EAM Entity
Warehouse:	EEE (D)
Create date:	11/22/2019
Confirm by date:	(blank)
Release date:	(blank)
Priority:	None
Hold from print:	No
Omit item quantities on P.O.:	No
Print special charges:	No
Approval status:	Approved
Request approval:	No
Count of externally controlled items:	0

Chapter 10 Infor Business Context

The Infor Business Context (IBC) message is an Infor Ming.le standard message that broadcasts the status of an application. The message consists of the identity of the application and the view that is being displayed along with a list of entities.

All Infor applications running inside Infor Ming.le send these messages. In IDF, the entities correspond to the business objects that are currently being displayed.

In list view, the IDF always sends a message when the selection changes. The message contains an entity for each selected row.

In object view, the IDF sends a message containing the displayed object and any many-to-one related objects. When the user selects a row from a list card, the currently selected object is added to the message.

Context applications or web parts can be added to any application page in Infor Ming.le. These context applications display data that is appropriate for the message.

The IDF context application listens for IBC messages and when the context application receives a message and recognizes the first entity, the context application looks at the preferences for the corresponding business object to see if a card preference has been defined. If a card preference is defined, then the IDF context application displays the object using that card preference.

Infor D	Development Framework		Customer Orders and Quot	ies X	Context App Primary View	^
in a C	Customize a) Help a) General	✓ (all records)	- C, D) 🖉 🕒	\$ 0 @ C* ♥ 0 ⊕	Settings (XA_COR_LIST)	1
o line:	Customer Name 10007602 Hyderabad		Order date 12 Reference 5 04/14/2023	Sales Contract 🖷 0 04	Business object (first entity)	T
o line: nterec	10007602 Hyderabad 10007602 Hyderabad		04/14/2023 04/13/2023	0 04 0 04	Card (object preference)	
nterec	10007602 Hyderabad		04/13/2023	0 0² 0 0₄	Set as preference?	
terec terec	100 Aerospace Alloys 100 Aerospace Alloys		04/10/2023 04/10/2023	0 02	Record entities?	
iterec iterec	100 Aerospace Alloys 100 Aerospace Alloys		04/07/2023 04/07/2023	0 0 ² 0 0 ²	Undo Continue	
terec terec	100 Aerospace Alloys 100 Aerospace Alloys		04/06/2023 04/06/2023	0 04		

You can select the **Settings** option and select a business object and a card from the list. In this example, **Customer Order** and **Line Items** are selected, respectively.

Info	or Development	Framework		Customer Orders and Quotes	×	Context App Primary View
۳.4	Customize 🖌	Help a	 (all records) 	- 0, 0 0 0 🖶 🗗 🕯	¢ 0	Customer Order
line: line: erec erec erec	10007602 10007602 10007602	Name Hyderabad Hyderabad Hyderabad Aerospace Alloys	Whs SCE SCE SCE SCE AUS	Order date Tr. Reference Sales Contract 04/14/2023 0 0 0 04/14/2023 0 0 0 04/13/2023 0 0 0 04/13/2023 0 0 0 04/10/2023 0 0 0	04 04 04	Business object Card Card Set as preference? Record entities?
erec erec erec		Aerospace Alloys Aerospace Alloys Aerospace Alloys	AUS AUS AUS	04/10/2023 0 04/07/2023 0 04/07/2023 0	04	Undo Continue

Line items are displayed when you click on the customer order as displayed in the screenshot.

	Info	r Development	Framework		Customer Orders an	d Quotes	;	×	Context App Primary View	^
r Orders and (Quotes						\$	Cu	stomer Order	ö
ile a Display a	Maintain a	Customize a	Help J		- Q, [D] &	0 🖶 🖬 /	1 🖬 🕤	All	_	
N3 Order	Status	Customer	Name	Whs	Order date no Reference	Sales	Contract 🖷			_
CO 20205	15 = No line:	10007602	Hyderabad	SCE	04/14/2023		0 04		Sequence #4 Item	E.
CO 20204	15 = No line:	10007602	Hyderabad	SCE	04/14/2023		0 04	•3	BIKE	
CO 20203	10 = Enterec	10007602	Hyderabad	SCE	04/13/2023		0 04	•3	BIKE	
CO 20202	10 = Enterec	10007602	Hyderabad	SCE	04/13/2023		0 04			
CO 13703	10 = Enterec	100	Aerospace Alloys	AUS	04/10/2023		0 04			
CO 13702	10 = Enterec	100	Aerospace Alloys	AUS	04/10/2023		0 04 >			
CO 13701	10 = Enterec	100	Aerospace Alloys	AUS	04/07/2023		0 04			
CO 13700	10 = Enterec	100	Aerospace Alloys	AUS	04/07/2023		0 04			
CO 13699	10 = Enterec	100	Aerospace Alloys	AUS	04/06/2023		0 04			

Preference definition in XA 9.2

Preferences for the context application for any business object are defined in Power-Link.

1 From the main browser, double-click **Business Object** to configure the context application.

(EE) Infor ERP XA Power-Link on USALIL2M	- 🗆 X
File Customize Navigation Help	
Default 🗸	Infor XA
Very Items Very Purchase Vendors Vendor Vendor	CA Plus Customer <u>R</u> elationships Customer <u>Service Engineering Materials Production Finance Procurement Planning Environment Material Logistics Integrator Integration PO Item Release </u>
Procurement Codes	
	Powered by Infor

2 Select Customize > Preferences.

infer (EE) Purc	hase Oro	ders									
File Display	Maintain	Cust	omize	User I	Navigation	Не	elp				
General	~		Prese	entation		>	a (٩	66^	Þ	5
Purch	ase Ord	#4	Query Locat		Ctrl+L						
Order 🛆	Vendor	P	Works	spaces							
P\$\$N001 P\$\$N002 P\$\$1145	VEN VEN SW	I	Views	s							
P\$\$1146	SW	3	Subse	ets							
P\$\$1158 P\$AB001 P\$AB002	SW 100 100	Ê	Sorts								
P\$AB123	100	<u>-</u>	Cards	s							
P\$AB124 P\$AB125 P\$AB126	100 100 100	Ø	Card	Files							
P\$AB128 P\$A0001	100 VEN		Broad	lcast							
P\$A0002 P\$A0003	VEN VEN		Prefe	rences	N						
P\$A0004 P\$A0005	VEN		Vendor	r Entity	for L2M SE	sto	mize	e pr	efere	ences	s
<											
Customize pre	eference	s				_	_	_			

The Purchase Order Preferences screen is displayed.

eneral	Workspace	List	Card File	Template	Find	Broadcast	
, 1101 UI			Card File	Template	Fina	Broadcast	
Defaults							
Buyer	(public prefere	ence) 🗸					
Warehouse	(public prefere	ence) 🗸					
Options							
	s as revisions	(public preference					
ag enanges		(public preference	>e) 🗸				
Receive Com	nplete						
	(last used)	~ 👪					
Template ((last used)						
i emplate	(last used)						
i emplate	(last used)						
i empiate	(last used)						
i empiate							
rempiate							
i empiate	(asi used)						

3 Select the Card File tab, and then select the Net-Link tab.

🔤 (EE) Purchas	e Order Preferences						\times
<u>G</u> eneral	Workspace List	Card File	Template	Find	Broadcast		
Initial selection	(public preference) (public preference)		✓ ∰			Power-Link <mark>Net-Link</mark>	J
Context app Primary Secondary	lication content Addresses All (public preference)						
Tertiary	(public preference)	~	<u></u>				
Continue	Cancel	Help					

4 Specify the preferences for the context application. In the example, **Addresses All** is selected.

The context application content area is where the cards that are to be used by the IDF context application are defined. You can use any cards, but most cards are designed to be used in a full screen and may result in unwanted scrollbars when presented in the limited space available to the context application. We recommend that you define specific cards using the customization features of Power-Link specifically for the context application. See the context help of Power-Link for guidance about how the customization facilities are used.

See the "Export Metadata from XA" section in *Infor System Manager Quick Installation Guide for Infor XA* after setting up preferences in Power-Link to reflect the changes made in Power-Link export Private metadata.

After exporting the metadata, Workspace must be updated for the existing or new users. See the *"Updating Workspace"* section in *Infor System Manager Quick Installation guide for Infor XA.*

5 Launch XA in Infor OS to see the Context App Primary View with Addresses. Select a purchase order in the Context App Primary View to display the Purchase orders Addresses.

		System i Home				F	Purchas	se Order	'S	×	Context App	Primary View	^
Pase Order File a D Order P\$SN001 P\$SSN02 P\$SS1145 P\$S\$1145 P\$AB001 P\$AB001 P\$AB02 P\$AB123 P\$AB123 P\$AB125 P\$AB125		aintain a) User a) Help a) (Vendor name Vendor Entity for L2M SE SupplyWEB SupplyWEB SupplyWEB Dick Samuri Dick Samuri Dick Samuri Dick Samuri	Image: Constraint of the second se	Apr Prit 	-		Inv	Ord	Release 12/28/2021	Rev Ren m	Purchase Order	er	* kwy
P\$AB126	100 100	Dick Samuri Dick Samuri Vender Enlity for LOM SE	10.00 10.00 40.50	✓ ✓	2				12/29/2021				

Preference definition in XA 10

Preferences for the context application for any business object are defined in Net-Link and can be configured in SiWA.

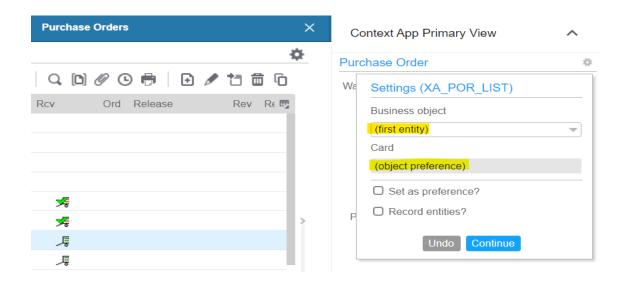
1 Open the Business Object and select **Customize > Preferences** to configure the context application.

	Infor Development Framework									Purchase Orders					
Purchase Orders															
File J Display J Mai	ntain a Customize A He	General	⇒ (all i	ecords)		Ŧ	Q (C	0	• •	1	0 🗇				
Order 🔺 Vendor Vendor r	arr Query	Total Currency	Apr	Prt	V R	DV	Inv	Ord	Release	Re	v Revise				
P000001 100001 Carbon 1	ibe Locate	2,000.00	-	///	-2	厚			07/07/2022						
P000002 100003 IT hardw		2,300.00	-		0										
P000003 100004 Helmet \$		150.00	1			厚									
P000007 100004 Helmet \$	Sup Subsets	1,000.00	-		-2										
	Sorts														
	Cards														
	Card Files														
	Preferences														
	Global Preferences														

2 Select **Object** tab. Under ming.le Context Apps Cards you can select the required preferences for Primary, Secondary, and Tertiary applications. Bill-to-Address is selected as Primary Application preference in this example.

<u>G</u> eneral List	Object Find	Maintenance history		
Card File				
Initial card file:	(public preference)		▼	9
Initial card:	(public preference)		-	E.
ming.le Context	App Cards			
Primary:	Bill-to Address		▼	E
Secondary:	(public preference)		▼	<u></u>
Tertiary:	(public preference)		-	E
Templates				
Create:	(public preference)		-	
Copy:	(public preference)		-	撰
Change:	(public preference)		-	

- 3 Click Continue.
- 4 From the Purchase Orders list select a PO. Go to settings for Primary Context App on right side. Ensure that no Business Object and Card details are selected before.



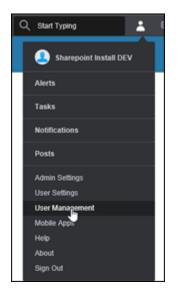
- 5 Click Continue.
- 6 From the Purchase Orders list, select a PO to see bill to address details in **Context app Primary View**.

Chapter 11 User maintenance

This chapter only covers minimal user maintenance. You must refer to the *Infor OS Administration Guide* for the complete documentation of the features described here.

Adding users

- 1 Log into Infor OS using the account that you set up for IFS administration.
- 2 Click the **User** option in the top-right hand corner, and then select **User Management**.



3 Select Users.



- 4 Click the + option to add a new user.
- 5 Specify a name in the search box and click **Load**.

Add User	S			+ ADO X CANCEL
Path Bootstra	ap 💌	User Filter Contains	▼ × rtələri	Q, LOAD
	User ID		Name	Email Address
	INFOR'ırtalari		Rajasekhar Talari	rajasekhar.talari@infor.com

6 Select the user from the list and click Add.

Harapa +		ACTON ¥	UPLOAD	EVINC .	EXPORTALL USERS	INFORT 11 X USERS	Select Property	* Containe	* × m	Q,
		Definition	Complete	User D		fallare		Enail Address	Lettagen	B.des
			•	INFORIJalari		Rajasekhar Talari		najasekhar.talari@erfor.com	12/7/2020 10:25:05:PM	Active

7 Verify the user information and update as per the business requirement.

etails Additional Properties	Security Roles	Accounting Entities	Locations	Groups	EAM Templates	ERP Person IDs	Client Access	Activity	Custom Master Data Types
1									
First Name *		Trie			Picture				
Rajasekhar		XA Products Deve	lopment & Sup	port					
Last Name *		Department			RT				
Talari		Development			Emai	LOH Out			
Email Address *		Manager				r ope over			
rajasekhar.talari@infor.com		INFORtsmalk		QE					
UPN *		Alternative Manager							
rajasekhar.talari@infor.com				QE					
User ID		IFS User GUID							
INFORvtalari		INFORvtalari							
FS ION-Person ID *		M3 User Alias							
rajasekhar talari@infor.com		RAJTAL39							

8 Navigate to security roles and click the + option to add the required security roles to a user as per the business requirement.

fanage / Users / Sundeep Ala					
Details Additional Properties	Security Roles				
+ 🙃 🖹					
Security Role		D			
Select Security Roles			+ ADD	+ ADD & CLOSE	
				0	

)	(A.	Q
Vame Name	Description	Application Type	Logical ID	
XA-SIWAnywhere	SIWAnywhere	System	lid://infor.social.inst	tance01

9 Click **Save**, as highlighted, to save the changes to the user profile.

Manage	7 Users 7 Rajasekhar1	alari									
Detail	Additional Propertie	s Security Roles	Accounting Entities	Locations	Groups	EAM Templates	ERP Person IDs	Client Access	Activity	Custom Master Data	a Types
+	8										
	Security Role		Description					Application Type			Logical ID
	XA-SI/VAnywhere		SIVIAnywhere					System			lid:/infocsocial.instance01
	BVAdmin		8VAdmin					8v			lid:/Infocsocial.instance01

Chapter 12 Net-Link WAR file redeployment

This section explains about the procedure on Net-Link WebArchive (WAR) file redeployment. We perform this section only when we want to redeploy the Net-Link war file with new changes.

System i Workspace AnyWhere with Windows deployment

Refer "WAR file Generation" and "Tomcat (version 7.0 +)" sections in the *Infor XA Setup Guide for Secure Net-Link*, which describes the Net-Link WAR file redeployment with SiWA using Windows deployment.

System i Workspace AnyWhere with IBMi deployment

Refer "WAR file Generation" and "WebSphere (version 9.x)" sections the *Infor XA Setup Guide for Secure Net-Link*, which describes the Net-Link WAR file redeployment with SiWA using IBMi deployment.

Appendix A Publishing BODs

Use this appendix to understand how to publish business object definitions (BODs).

Business Information Services

The BIS Organization node setting in XA is used by all BODs as a base accounting entity for many different BOD elements including document ID's. The Code Definition BOD is used to send the list of accounting Entities to the Business Vault.

It is recommended the BIS organizationNode ("machineName.EnvironmentCode") on the Business Information Services card in the Application Settings object is not more than ten characters. For example, if machine name is USATLD06 and environment is AB, you can use either USATLD06 or D06.AB or any other combination of characters that is less than or equal to ten characters.

If you change the Organization node attribute for the root Organization Node accounting entity, the PUB* files storing published data for many objects are not changed. Also, the root Organization Node accounting entity in the Business Vault is not updated even if you run the Publish Business Information Services host job on the Business Information Services card in Application Settings.

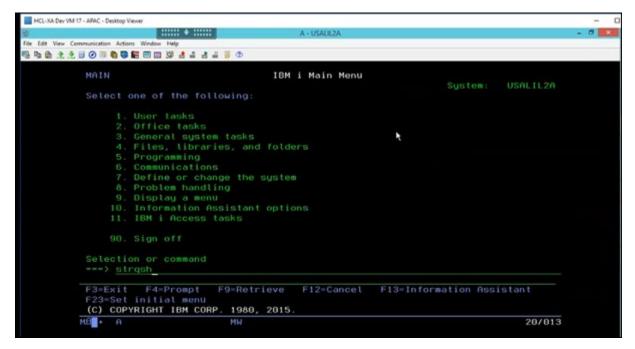
If the root Organization Node accounting entity is changed in BIS, you must do these steps:

- 1 Clear all published data files (PUB***) for the environment.
- 2 To rebuild the PUB* file data as well as re-sync of BV data, re-publish all published objects including objects that publish Code Definitions and Accounting Entity.
- 3 Use the **Publish** host job on each object to publish BODs.

Appendix B Creating a default WebSphere profile

If you are unable to get the default profile from WebSphere profile dropdown while creating an IBM HTTP Server instance, follow these steps to create default WebSphere profile:

1 Start a QSH session in iseries.



2 Run these commands:

\$ cd /QIBM/ProdData/WebSphere/AppServer/V9/BASE/bin

```
$ ./manageprofiles -create -serverName server1 -nodeName <hostname> -cellName
<hostname> -hostName <hostname.domain.com> -templatePath
/QIBM/ProdData/WebSphere/AppServer/V9/BASE/profileTemplates/default -
profileName default
```

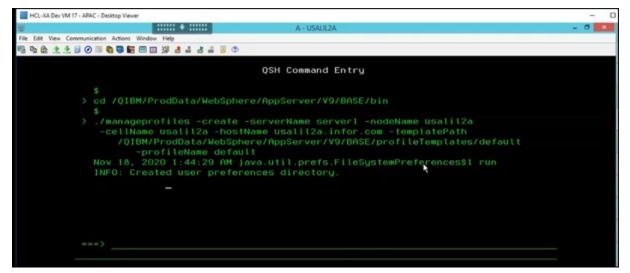
Replace <hostname>, <hostname.domain.com> with the relevant iseries hostname.

For example:

\$ cd /QIBM/ProdData/WebSphere/AppServer/V9/BASE/bin

```
$ ./manageprofiles -create -serverName server1 -nodeName usalil2m -cellName
usalil2m -hostName usalil2m.infor.com -templatePath
```

/QIBM/ProdData/WebSphere/AppServer/V9/BASE/profileTemplates/default profileName default



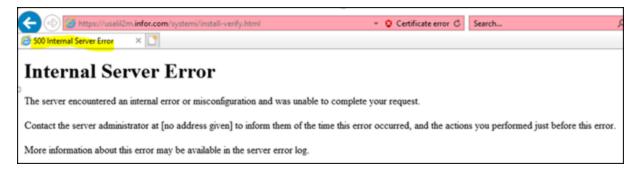
Note: In some severs the folder "**BASE**" is "**Base**". Check the folder structure before running the command.

3 Return to the **WebSphere HTTP admin -> HTTP servers -> WebSphere** applications server. The default profile is listed in the list.

If you still have issues while creating the default profile, check with IBMi support and get this resolved.

Appendix C Internal server error resolution

At the end of SiWAnyWhere installation, try to verify the installation, if you are receiving an Internal Server Error.



Use these steps to resolve the issue:

1 Login to IBM i Web administrator console.

http://<hostname.domain.com>:<port>/HTTPAdmin

Replace <hostname>, <hostname.domain.com> with the relevant iseries hostname.

For example: http://usalil2m.infor.com:2001/HTTPAdmin

- 2 Stop the HTTP server and application servers related to SiWAnyWhere.
- 3 On the IBMi server (Ex: USALIL2M), check if the file plugin-key.kdb is present in this location: *QIBM\UserData\WebSphere\AppServer\V9\Base\profiles\<profilename>\config\IHS_WSANYWH ERE*
- 4 If the file plugin-key.kdb is not present, then copy the file from:

QIBM\UserData\WebSphere\AppServer\V9\Base\profiles\<profilename>\config\cells\<cellname>\ nodes\<nodename>\servers\IHS_WSANYWHERE

To:

QIBM\UserData\WebSphere\AppServer\V9\Base\profiles\<profilename>\config\IHS_WSANYWH ERE\

Note: You must have QSECOFR authority to perform this action.

- 5 Start the HTTP server and application servers related to SiWAnyWhere.
- 6 Launch <u>https://usalil2m.infor.com/systemi/install-verify.html</u>.

7 If you still receive an Internal Server Error, then navigate to the WebSphere Application Server > Launch Administrative Console > Servers > WebServers > IHS_WSANYWHERE > Additional properties > Plug-in properties and select Copy to WebSphere KeyStore Directory > Apply and click Save.

Bidghers, athen		Return	randels they I lingest IBM
View: Al Lais	Gl-seiCh, hele-shelt		Con 149
Victore Victor Alterna School Alterna Schoo	Web servers 205. INSAMURISES Plag-in properties Use this page to configure a red server plagen. The plagen perses XTTP regards from a red server to the Sautone Configure a red server plagen. The plagen perses XTTP regards from a red server to the Sautone	üğıhanı(R) aşşıkuslur servers.	Keb Keb
- Bitt servers	Plug-in properties	Additional Properties	
a Apicann a Seven	C Sprove DKS failures during Web server startup	Bount and Reserve Control	
g fanora	+ Edited configuration interval	+ Insure Reading	
it leasts	al and a second	+ <u>Color Poyntin</u>	
a System administration	Repository copy of Web server plug-in files:		
g inen and drugs	Rupin configuration file name pluge-cip.xml Vew		
g herberg and Solid	Automatically generate the plug-in configuration file		
a Trubichisting a Service integration	Automatically propagate plug-in configuration for		
1 1001	Poyler key store the name physics key kittle Warape keys and conflicates Carey to Web server key stare directory		

Appendix D Troubleshooting

- If a user is trying to login to Infor OS for the first-time using Infor credentials and the user is unable to login to the Infor OS successfully, then you must make sure the user profile is configured in Infor OS application. If not, then the user can request the Project Manager or XA Integration team for user provision in Infor OS with the user's Infor mail ID. The user will need to specify whether they need access to Infor OS Development or Infor OS QA environment.
- If a user logs in to Infor OS successfully but gets prompt again for credentials while launching the SiWA applications, then the user can enter the respective IBM i user ID and credentials. For example, in this screen, login prompt screen is displayed for USALIL02 IBM i machine.

	infor
System i	Workspace AnyWhere
Profile	L02JJ
User *	alasun
Password *	
Company	US Demonstration Company 🔻
Environment	XA9J IFM/EPDM Scheduled Issu 🔻
	SIGN IN
	\$ (j)

• If user can login to Infor OS and SiWA applications, but facing an issue at Context App Primary, Secondary & Tertiary Views with an error message "You are not currently logged on" displayed,

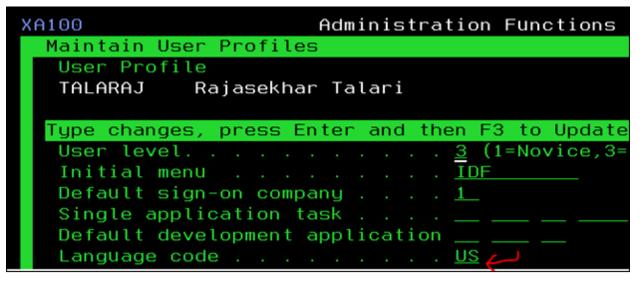
then as a workaround, right-click the respective Context App view and click the *"Reload frame"* as displayed.

	× Context App	Primary View
	5 %	eend surenty opped on.
	Back	Alt+Left Arrow
	Forward	Alt+Right Arrow
	Reload	Ctrl+R
	Save as	Ctrl+S
	Print	Ctrl+P
	Cast	
33	Create QR code for this	s page
	Translate to English	
8	Compare via Compare	Hatke
	View page source	Ctrl+U
	View frame source	
	Reload frame	
	Inspect	Ctrl+Shift+I

 Even after successful SIWA environment setup, if the environment is launching with no IDF tasks under My Tasks in home page, then you need to check whether exporting is done successfully or not in the ExportPublicMetadataToWorkspace.log at the local IDF logging folder. This is similar to going to Power- Link > help > About > Ctrl + D > Ctrl + L and going to logging folder.

🎉 ► This PC ► 🗄	Storage (D):) → sala → <mark>IDF_Corretto → cache → client</mark>	USALIL2C_36001 →	54 → logging	
i i i i i i i i i i i i i i i i i i i	^	Name	Date modified	Туре	Size
22602		퉬 temp	8/13/2020 1:27 AM	File folder	
22693 03060		ExportPublicMetadataToWorkspace.log	8/13/2020 1:37 AM	Text Document	674 KB

- If you find any errors, those need to be resolved and re-run export metadata again to ensure that you do not encounter any errors.
- If you encounter the "Language Code is not defined" error, then you need to cross check and update language code in SIM console.



• When you try to open any business object from IDF using SIWA, if it displays a blank page, you need to add the SIWA URL to the insecure content and try to relaunch the application.

Settings	Q Search settings
You and Google	← Insecure content
â Autofill	
Privacy and security	Insecure content is blocked by default on s <mark>ecure site</mark> s
Appearance	Block
Q Search engine	No sites added
Default browser	No sites added
() On startup	Allow
Advanced 👻	No sites added

• Restart the server SIWA application installed server if this issue appears and recheck the Database access under diagnosis in SIWA admin page.

	r System i Workspace Where Administration	l	Database Access
88			L2M-EF
*	Workspace Configuration	~	Invalid password "abcde123" for user "JDBC_AMV3" on database connection."
		~	The specific error message was "Could not obtain connection from pool using getConnection "L2N-EF". Try restarting the server (to check the database pool) and
Ģ	System I Einulator	~	also by signing on to "USALIL2M INFOR COM" as "JDBC_AMV3" and running the following commands to see if there are any errors One although could be could be a set of the set of
R	Favourites Manager	\sim	
đ	Diagnostics	^	Technical Details Storc Mire
-	Recommended Tests		
	Database Access	_	
	UTF8 Encoding		
	 Xalan / XSLT 		
	Caching		
	Authentication		
	Sessions		

 If you receive this request, cross check whether the NLS and NLC processes are in active state or not, if not start the processes.

Γ	0	Infor	XA Net-Link		×						
		There are no servers available to handle requests. Please contact your system administator.									
		Press OK to retry.									
				ОК							
				UK .							
-											
ŏ	EF	NLC	Net-Link Controller	(auto)							
ĕ	EF	NLS	Net-Link Server	(auto)							

If you face an issue, as displayed, when launching L1 tasks, check if the environment is pointing to the correct iASP group or not by navigating to this path in System Manager Console:

STRM400 \rightarrow Application Manager \rightarrow Maintain Environments

Troubleshooting

	Error at	t Task Initialisation		
Contact your comp	puter department and	d quote the following		
Error	Library list erro	ır.		
User	ALASUN			
Environment	тт	Appl code	X M6 TT 09	
Task code .	Maintain Defau	Lib list It Ship-Vias	US01	
		Col	ntinue	
4 intain Enviro		ication Manager	Syste	m: US
nvironment				≭UPD
		TER to update		

Due to maintenance activities on weekends and holidays, SiW and Net-Link related HTTP and Application servers in the IBMi Web Administration Console may go down similar to XA servers in Link Manager. You need to check and start them if you face any issues while launching SiWA application.

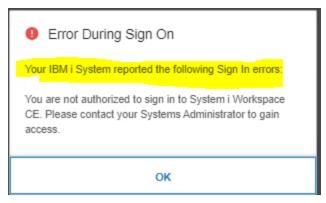
<u>IASP</u> ہے

To secure Net-Link and launch the SiWA application in Infor OS, the Globals for the XA server must be on 9.2. If the globals are on 9.1, then the user cannot download Net-Link.war file and will fail to secure the Net-Link on SiWA. We do not recommend that you run SiWA on Infor OS without securing Net-Link.

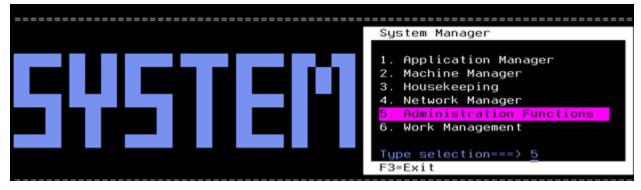
group.

iASP

 If the client system is getting blocked at System Manager (SIM) or if you are receiving this error while accessing SIWA environments with or without SSO, you must add the IPv4 address of the client system in the allowed clients at SIM.



• Navigate to STRM400 → Administration Functions



• Navigate to Secure Sign-on option → Display Access Log

XA800	Ad	ministration	Functions	Sys
1. 2. 3. 4.	<mark>inistration Menu</mark> System Manager Prop Maintain User Profi Print User Profiles Maintain Language P Apply Authorisation	les arameters		
7. 8. 9. 10. 11.	Licence Usage Enqu Maintain Company P Maintain Soft Opti Authorisation Viol Maintain Role Prof Print Role Profile Secure Sign-on	2. Config	gure TELNET Exit Program gure Token generator <mark>ay Access Log</mark>	
	Maintain IFS User ion or command			

• Identify and copy the client IPv4 address with result as blocked, as displayed.

For example: 127.0.0.1



- Press F3 to exit.
- Navigate to Secure Sign-on option → Configure Token generator

XA	800	Ad	ministration	Functions	Sys
	1. 2. 3.	<mark>inistration Menu</mark> System Manager Prop Maintain User Profi Print User Profiles	les		
	6. 7. 8. 9. 10. 11.	Apply Authorisation Licence Usage Enqu Maintain Company P Maintain Soft Opti Authorisation Viol Maintain Role Prof Print Role Profile	Codes Secure Sig 1. Config 2. Config	gure TELNET Exit Program gure Token generator <mark>ay Access Log</mark>	1
Se 	13.	Secure Sign-on Maintain IFS User ion or command			

• Update the Client IPv4 address at Allowed clients, as displayed.

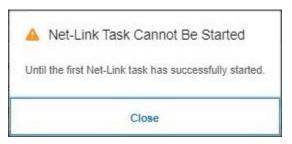
XA032	Application Manager	System: USALIL2
Configure Token Genera	ton	
Token Expiry Time.	230 Seconds	
Allowed clients.	127.0.0.1	
Blocked users		

- Press **F8** to update.
- Press F3 to exit.
- If, on launching the XA application from InforOS, you see a blank screen or one, or both, of these screens, then Single Sign-On (SSO) is not correctly configured in InforOS, System Manager, SiWA, or all three.

	infor
System	Workspace AnyWhere
Error Duri	ng Sign On
SSO not configure Username and Pa	ed. Login using your normal System i Issword.
	ок
	Remember Me
	SIGN IN
	٥ ن
	infor
System i	i Workspace AnyWhere
Profile	C31 Prod 💌
User *	- NO MATCHING ERPPERSON USEF
Password *	
Company	Generic Demonstration Company 🔻
Environment	System 21 3.1 core 💌
	\$ (j)

Note: Ensure that you have already tested SiWA as a stand-alone application, from a client PC, and resolved any issues with that setup before enabling any of the SSO features.

• If this message is displayed when you try to access any object in XA, you need to logout of SiWA environment and login to Net-Link environment of this same application. Navigate through couple of objects and check the objects in SiWA/Infor OS.



• If you encounter the error "abc.infor.com refused to connect," where abc is SiWA installed server hostname, then review this information for your deployment.



• For SiWA with Microsoft Windows deployment: Login to the SiWA installed server with admin privileges, and from windows search open services, check if the Infor SiWA (SiWAnyWhere) service is in Running status. If not, then start the service by clicking on Start the service as shown.

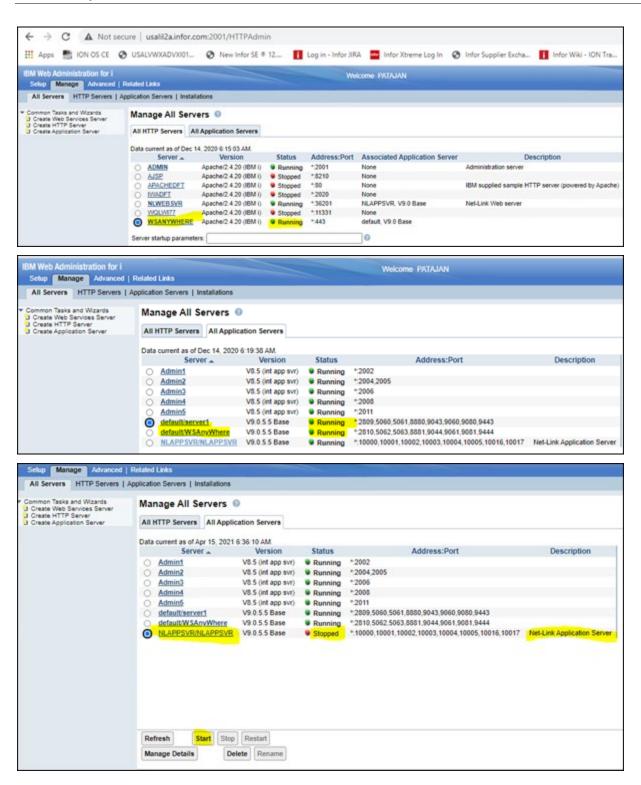
G Services					-	0	×
File Action View	Help						
💠 🔶 📷 🖾 🤅	🕞 📴 🗊 🕨 🖩 H. D						
Services (Local)	 Services (Local) 						
	Infor SiWA (SiWAnyWhere)	Name	Description Status	Startup Typ	e Log On J	As	^
		IKE and AuthIP IPsec Keying Modules	The IKEEXT Runnin	ng Automatic (T Local Sy	ste	
	Start the service	Cantor SiWA (SiWAnyWhere)	Infor SiW A	Automatic	Local Sy	ste	
	-	Children Interactive Services Detection	Enables use	Manual	Local Sy	ste	
	Description:	Connection Sharing (ICS)	Provides ne	Manual (Tri	g Local Sy	ste	
	Infor SW An/Where Build 200331 EP7	(C) IN L	0 11 1 0 1		1 10		
Services						-	ø
File Action View	Help						
💠 🔿 🔯 🔯	B 🛛 🖉 🗊 🕨 🗰 🖬 🕨						
Services (Local)	Services (Local)						
	Infor SiWA (SiWAnyWhere)	Name	Description	Status Sta	rtup Type	Log On As	1
		IKE and AuthIP IPsec Keying Modules	The IKEEXT	Running Au	tomatic (T	Local Syst	e
	Stop the service	Infor SiWA (SiWAnyWhere)	Infor SiW A	Running Au		Local Syst	
	Restart the service			in the second se		Lecis Syst	

• For SiWA with an IBMi deployment: Login to IBM Web Administration console and check if the HTTP & Application servers related to SiWA WebSphere and Net-Link are in Running status. If not, then start both the SiWA WebSphere and Net-Link server instances as shown.

Under All HTTP Servers tab, select the SIWA WebSphere installed HTTP server and click on Start.

IBM Web Administration for i Setup Manage Advanced Re	lated Links			We	come PATAJAN	
	sication Servers Install	ations				
* Common Tasks and Wizards	Manage All Serv					
Create Web Services Server Create HTTP Server Create Application Server	All HTTP Servers Al					
	Data current as of Dec 1	4 2020 5 50 15 AM				
	Server	Version	Status	Address:Port	Associated Application Server	Description
	O ADMIN	Apache/2.4.20 (IBM I)		*:2001	None	Administration server
	O AISP	Apache/2.4.20 (IBM I)		*8210	None	
	O APACHEDET	Apache/2.4.20 (IBM I) Apache/2.4.20 (IBM I)	 Stopped Stopped 	*:80	None	IBM supplied sample HTTP server (powered by Apache)
	O NLWEBSVR	Apache/2.4.20 (IBM I)		* 36201	NLAPPSVR, V9.0 Base	Net-Link Web server
	O WOLWIZZ	Apache/2.4.20 (IBM I)		* 11331	None	
	WSANYWERE	Apache/2.4.20 (IBM I)	Stopped	*:443	default, V9.0 Base	
	Server startup paramete	rs:			0	
	Refresh Start Manage Details	Stop Restart Delete Rename				
← → C ▲ N	ot secure us	alil2a.infor.com	1:2001/H	TTPAdmin		
Apps 📑 ION OS C	CE 🕑 USALVI	WXADVXI01	New 8	Infor SE ® 1	2 🚺 Log in - Infor .	JIRA 🔤 Infor Xtreme Log In 🔇 In
IBM Web Administration for					V	Velcome PATAJAN
Setup Manage Advar	nced Related Lin	AS				
All Servers HTTP Servers	ers Application S	Servers Installatio	ins			
Common Tasks and Wizards Create Web Services Serve Create HTTP Server	er e	default/serve		ard will halo u	ou start all of the component	ts associated with this Web environment.
Create Application Server	Vielouin	e to the Start Wiza	u. 1115 Wiz	ard will help y	ou start all of the component	s associated with this free environment.
		ne items you wish to following applicat		rs will be star	ted:	
		default/server1				
		default/WSAnyW	Vhere			
	The	following HTTP se	ervers on	the local syst	em are associated with thi	s application server:
		WSANYWHERE	E			
	Start	Cancel				

Troubleshooting



Setup Manage							
	Advanced Re	lated Links					
All Servers HTT	P Servers App	lication Serve	rs Installations				
Common Tasks and W	Azards	Start: NL	APPSVR/NLA	PPSVR	0		
Create Web Service Create HTTP Serve	is berver						
Create Application 8		Welcome to t	he Start Wizard. Th	is wizard wil	help you start	all of the components associat	ted with this Web environment.
		Select the ite	ms you wish to star	t			
			wing application		be started:		
		🗹 N	LAPPSVR/NLAPPS	SVR			
				s on the loc	al system are	associated with this applica	tion server:
		🗹 N	LWEBSVR				
		Start	Cancel				
	ciarcu Links						
ers HTTP Servers Ap		Installations					
asks and Wizards Veb Services Server	Manage All	Servers 0)				
TTP Server oplication Server							
	All HTTP Server	s All Applica	ation Servers				
			ation Servers				
	Data current as o	f Apr 15, 2021 6	ation Servers	Status		Address:Port	Description
	Data current as o		ation Servers	Status Running	*2002	Address:Port	Description
	Data current as of Ser <u>Admin1</u> <u>Admin2</u>	f Apr 15, 2021 6	40:34 AM. Version V8.5 (int app svr) V8.5 (int app svr)		*2004,2005	Address:Port	Description
	Data current as of Ser <u>Admin1</u> <u>Admin2</u> <u>Admin3</u>	f Apr 15, 2021 6	Ation Servers 40:34 AM. Version V8.5 (int app svr) V8.5 (int app svr) V8.5 (int app svr)	 Running Running Running 	*:2004,2005 *:2006	Address:Port	Description
	Data current as of Ser Admin1 Admin2 Admin3 Admin4	f Apr 15, 2021 6	Ation Servers 3:40:34 AM. Version V8.5 (int app svr) V8.5 (int app svr) V8.5 (int app svr) V8.5 (int app svr)	 Running Running Running Running 	*2004,2005 *2006 *2008	Address:Port	Description
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Enabling debugging in System i Workspace AnyWhere

- 1 Locate the System i Workspace AnyWhere system.properties file as documented in the System i Workspace AnyWhere Installation Guide.
- 2 Add this property to enable SSO Debug mode in SiWA:
 - **Property**: com.infor.siw.cloud.debug
 - Description: Set to 1 to enable SSO debugging specific features of SiWA
- 3 Locate the server\xsl folder within your web application deployment.
- 4 Edit the logon-validate-global.xsl file using a text editor and change <xsl:variable name="logindebug" select="""/> to <xsl:variable name="login-debug" select=""true"/>.
- 5 Save the file.
- 6 Locate the WEB-INF\classes folder within your web application deployment.
- 7 Edit the log4j.xml file using a text editor and change <*Root level="warn">* to <*Root level="warn">* to <*Root level="debug">*.to
- 8 Save the file and restart SiWA to apply these changes.

Note: You may want to clear or backup any existing log files at this point.

The next time a user logs into SiWA through InforOS, debugging information is written to the Standard Output log file of your web application or server.

Enabling debugging of the identify provider

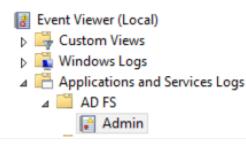
- 1 Locate the fedlet_config folder. If you followed the instructions in this document, this folder is in the root directory of your SiWA server.
- 2 Edit the FederationConfig.properties file contained within this folder using a text editor and locate this line: *com.iplanet.services.debug.level=error.*
- 3 Change the *com.iplanet.services.debug.level* setting to one of off, error, warning, or message.
- 4 Save the file and restart SiWA to apply the change.

Note: You may want to clear or backup any existing log files at this point.

The next time a user logs into SiWA, via InforOS, debugging information is written to the debug folder located under the fedlet_config folder.

Viewing debugging on the ADFS server

1 Within the Windows Event Viewer locate the Applications and Services Logs > AD FS > Admin as shown.



2 Review all events with a logging level of Error.

Admin Number of events: 34 (!) New events available						
Level	Date and Time	Source				
🔔 Warning	12/8/2020 11:32:21 AM	AD FS				
(i) Information	12/8/2020 2:33:41 AM	AD FS				
(i) Information	12/8/2020 2:33:41 AM	AD FS				
(i) Information	12/7/2020 2:33:38 PM	AD FS				
(i) Information	12/7/2020 2:33:38 PM	AD FS				
(i) Information	12/7/2020 2:33:38 PM	AD FS				
🔔 Warning	12/7/2020 2:33:38 PM	AD FS				
(i) Information	12/7/2020 2:33:38 PM	AD FS				

Additional troubleshooting

For any additional troubleshooting steps, see "Troubleshooting Techniques" in the System i Workspace AnyWhere Installation & Administration Guide.

Appendix E Multiple SiWA installations on a single Windows server

If you want to install and run multiple instances of SiWA on a single Windows server using unique ports for each individual installation, follow these additional settings for each SiWA installation.

- 1 Navigate to SiWA Installation folder. For example, /tomcat/conf/context.xml file.
- 2 Edit the context.xml file and change <Context> to <Context sessionCookieName="JSESSIONID_{environmentID}"> where {environmentID} is the ID of the environment.

```
context xml 🔀
 1
    <?xml version="1.0" encoding="UTF-8"?>
    E<!--
 2
       Licensed to the Apache Software Foundation (ASF) under one or more
 3
 4
       contributor license agreements. See the NOTICE file distributed with
 5
       this work for additional information regarding copyright ownership.
 6
       The ASF licenses this file to You under the Apache License, Version 2.0
 7
       (the "License"); you may not use this file except in compliance with
 8
       the License. You may obtain a copy of the License at
 9
10
            http://www.apache.org/licenses/LICENSE-2.0
11
12
       Unless required by applicable law or agreed to in writing, software
13
       distributed under the License is distributed on an "AS IS" BASIS,
       WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
14
15
       See the License for the specific language governing permissions and
16
        limitations under the License.
17
18
     <!-- The contents of this file will be loaded for each web application -->
    Context sessionCookieName="JSESSIONID L2MEG">
19
20
21
          < -- Default set of monitored resources. If one of these changes, the
22
          < !-- web application will be reloaded.
                                                                                   -->
23
          <WatchedResource>WEB-INF/web.xml</WatchedResource>
24
          <WatchedResource>WEB-INF/tomcat-web.xml</WatchedResource>
25
          <WatchedResource>${catalina.base}/conf/web.xml</WatchedResource>
26
27
          <!-- Uncomment this to disable session persistence across Tomcat restarts -->
```

3 Restart the SiWA Windows server and ensure that the status of SiWA services is running post server restart.

	Help					
Services (Local)	Services (Local)					
	Infor SiWA (SiWAnyWhere)	Name	Description	Status	Startup Type	Log On As
		iKE and AuthIP IPsec Keying Modules	The IKEEXT	Running	Automatic (T	Local Syste
	Stop the service Restart the service	🖳 Infor SiWA (SiWAnyWhere)	Infor SiW A	Running	Automatic	Local Syste
Trestory the service		Infor SiWA (SiWAnyWhereIST)	Infor SiW A	Running	Automatic	Local Syste

Appendix F Multiple SiWAW WebSphere installations on a single IBMi server

If you want to install and run multiple instances of SiWA WebSphere on a single IBMi server using unique ports for each individual installation, follow these additional settings for each SiWA installation.

1 Log in to IBMi Web Administrator for i using this URL, where *<hostname>* is the FQDN of the IBMi server:

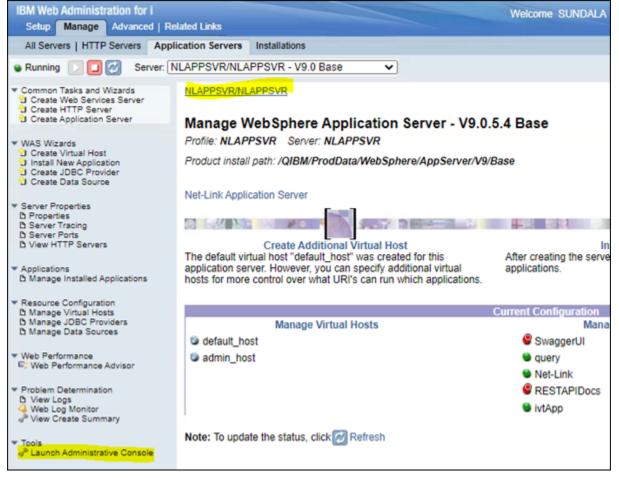
http://<hostname>:2001/HTTPAdmin

For example: <u>http://usalil2m.infor.com:2001/HTTPAdmin</u>)

2 Navigate and select the Net-Link WebSphere Application server, which is used for securing Net-Link.

🔛 Apps 🧧 SupplierExcha	nge 🧧 Infor OS 📒 Infor Wiki [SiW AnyWhere	e 📃 XA_lr	ntegrations S 📙 IBM i 📒 CPQ SalesPortal	Infor d/EPM
IBM Web Administration for I Setup Manage Advanced	Related Lates			Welcome SUNDALA	
	Application Servers Installations				
Common Tasks and Wzards Create Web Services Server	Manage All Servers @				
Create HTTP Server Create Application Server	All HTTP Servers All Application Serv	vers			
	Data current as of Aug 27, 2021 2:19:30 Al	M			
	Server 🛦	Version	Status	Address:Port	Description
	O Admin1	V8.5 (int app svr)	Running	* 2002	
	O Admin2	V8.5 (int app svr)	Running	*2004,2005	
	O Admin3	V8.5 (int app svr)	Running	*:2006	
	O Admin4	V8.5 (int app svr)	Running	*2008	
	Admin5	V8.5 (int app svr)	Running	* 2011	
	defaultiservert	V9.0.5.4 Base	Running	*2809,5060,5061,8880,9043,9060,9080,9443	
	default/WSAm/Where	V9.0.5.4 Base	Running	*2810,5062,5063,8881,9044,9061,9081,9444	
	O defaultTST/serverTST	V9.0.5.4 Base	Running	*2811,5064,5065,8882,9045,9062,9082,9445	
	defaultTST/WSAWTST	V9.0.5.4 Base	Running	* 2812,5066,5067,8883,9046,9063,9083,9446	
	NLAPPSVRINLAPPSVR	V9.0.5.4 Base	Running	* 10000, 10001, 10002, 10003, 10004, 10005, 10016, 10017	Net-Link Application Serv
	NLAPPSVRTST/NLAPPSVRTST	V9.0.5.4 Base	Running	*:10020,10021,10022,10023,10024,10025,10036,10037	Net-Link Application Servi
	O WQUB85	V8.5 (int app sw)	Stopped	* 12336	

Launch the IBM WebSphere Administrative Console to make configuration changes



Multiple SiWAW WebSphere installations on a single IBMi server



3 From the menus, select Servers > Server Types > WebSphere Application Servers.

←	\rightarrow (C	A Not	secure	usa	alil2m.in	for.c
	Apps	_ Su	ipplierExcl	hange	. 1	nfor OS	
Web	Sphere.	software	-	_			
View:	All task	s		~			
e Welco	ome						
Guide	ed Activiti	es					
Serve	ers						
E Se	erver Type	s					
	WebSph	iere appl	ication serve	rs			
	WebSph	iere MQ :	servers				
	Web ser	were					

4 Click on the Net-Link configured WebSphere Application server, and then navigate to Server Infrastructure > Java and Process Management > Process Definition > Java Virtual Machine > Custom Properties.

WebSphere, software				Welcome sundala
Views All tasks	CHERUSALD.2H. MUNPSVE, PH	rine = NLAPPSVR		
+ Woksme	Application servers			
Guided Activities	Application servers	st of the application servers in your environme	or and the status of each of these servers	. We can also use this name to channe the
🚊 Servers	status of a specific applic	ation server.		
 Second Types WebSphere application servers 	Preferences			
 WebSphere MQ servers 	7.9			
Web servers	Name 0	Node O	Host Name 🔿	Version 🔿
Applications	You can administer the f	ollowing resources:		
8 Services	NLAPPENE	USALIL2M_NLAPPSVR	USALIL2M.INFOR.COM	Base 9.0.5.4
* Amountes	Total 1			

Server Infrastructure		
Java and Process Management		
 Class loader 		
 Process definition 		
Process execution		
 Administration 		
 Java SDKs 		
Apolication servers	1	
Application servers > NLAPPSVR > Process definition Use this page to configure a process definition. A process defini Configuration General Properties Executable name Executable arguments	tion defines the command line information necessary to	Additional Properties Java Virtual Machine Environment Entries Process execution Process Logs Logging and tracing
Application servers Application servers Application servers Use this page to configure advanced Java(TM) virtual machine s Configuration Runtime General Properties Classoath		Additional Properties
		- Custom properties

5 Click **New** and add a new Custom Property for the JVM to reuse the sessionId.

Application servers
<u>Application servers</u> > <u>NLAPPSVR</u> > <u>Process definition</u> > <u>Java Virtual Machine</u> > Custom properties Use this page to specify an arbitrary name and value pair. The value that is specified for the name and value pair configuration properties.
Preferences
New Delete

6 Specify this information:

Name

Specify HttpSessionIdReuse for the name of the system property.

Value

Specify **true** for the value of the system property.

Multiple SiWAW WebSphere installations on a single IBMi server

olication servers > N	LAPPSVR > Process definition > Java Virtual Machine > Custom properties > HttpSessionIdReuse
	n arbitrary name and value pair. The value that is specified for the name and value pair is a string that can set internal
figuration properties.	
onfiguration	
General Properties	
 Name HttpSessionIdReuse 	
inc.poessions areas	
+ Value	
+ Value true	
true	
true	

7 Click **Apply**, and then save your changes and restart the Application Server.

Cell=USALIL2M_NLAP	PPSVR, Profile=NLAPPSVR	
Application servers		
	 Messages Changes have been made to your local configuration. <u>Save directly to the master configuration.</u> <u>Review</u> changes before saving or discarding. 	. You can:
	The server may need to be restarted for these chang	es to take effect.
Application servers		2 5
Application servers Application serve	rrs > <u>NLAPPSVR</u> > <u>Process definition</u> > <u>Java Virtual Machine</u> > <mark>Cus</mark>	tom properties
Application serve	ecify an arbitrary name and value pair. The value that is specified for the	
Application serve	ecify an arbitrary name and value pair. The value that is specified for the	
Application serve Use this page to sp configuration prope	ecify an arbitrary name and value pair. The value that is specified for the arties.	
Application serve Use this page to sp configuration prope Preferences	ecify an arbitrary name and value pair. The value that is specified for the arties.	
Application serve Use this page to sp configuration prope Preferences New Delete	ecify an arbitrary name and value pair. The value that is specified for the arties.	
Application serve Use this page to sp configuration prope Preferences New Delete Configuration of the serve Select Name Configuration	ecify an arbitrary name and value pair. The value that is specified for the arties.	name and value pair is a string that can set internal system

Note: SSO cannot be implemented for the second instance of SiWA, as we are using single WebSphere for 2 SiWA, which is a limitation.