

Enterprise Product Integration

Configuration and Troubleshooting Guide

March 2019

Legal Information

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1

Enterprise Product Integration Configuration and Troubleshooting Guide

Flexera Software has developed a unified application usage management solution—comprised of FlexNet Manager Suite (On Premises or Cloud), AdminStudio, App Portal, and Workflow Manager—which gives you a consolidated and centralized approach to maximizing software value and optimizing usage across the application life cycle.

Note • FlexNet Manager Suite On Premises was known as FlexNet Manager Platform in earlier releases.

This guide explains how to configure and troubleshoot this enterprise product integration solution. The following main sections are included:

Table 1-1 • Enterprise Product Integration Configuration and Troubleshooting Guide

Section	Description		
Prerequisites for Integration	Describes steps to take before implementing product integration, including configuring accounts and permissions.		
Installing and Configuring Flexera Service Gateway 2	Explains how to install the Flexera Service Gateway.		
Configuring FlexNet Manager Suite On Premises	Explains how to connect FlexNet Manager Suite On Premises to the Flexera Service Gateway, test the connection, and perform configuration steps.		
	Note • This product was known as FlexNet Manager Platform in earlier releases.		
Configuring the FlexNet Manager Suite Cloud Environment	Explains how to configure the FlexNet Manager Suite Cloud environment.		
Configuring App Portal	Explains how to connect App Portal to the Flexera Service Gateway, test the connection, and perform configuration and troubleshooting.		

Table 1-1 • Enterprise Product Integration Configuration and Troubleshooting Guide

Section	Description		
Configuring AdminStudio	Explains how to connect AdminStudio to the Flexera Service Gateway and to test the connection.		
Configuring Workflow Manager	Explains how to connect Workflow Manager to the Flexera Service Gateway and test the connection.		

Product Support Resources

The following resources are available to assist you with using this product:

- Flexera Product Documentation
- Flexera Community
- Flexera Learning Center
- Flexera Support

Flexera Product Documentation

You can find documentation for all Flexera products on the Flexera Product Documentation site:

https://docs.flexera.com

Flexera Community

On the Flexera Community site, you can quickly find answers to your questions by searching content from other customers, product experts, and thought leaders. You can also post questions on discussion forums for experts to answer. For each of Flexera's product solutions, you can access forums, blog posts, and knowledge base articles.

https://community.flexera.com

Flexera Learning Center

Flexera offers a variety of training courses—both instructor-led and online—to help you understand how to quickly get the most out of your Flexera products. The Flexera Learning Center offers free, self-guided, online training classes. You can also choose to participate in structured classroom training delivered as public classes. You can find a complete list of both online content and public instructor-led training in the Learning Center.

https://learn.flexera.com

Flexera Support

For customers who have purchased a maintenance contract for their product(s), you can submit a support case or check the status of an existing case by making selections on the **Get Support** menu of the Flexera Community.

https://community.flexera.com

Contact Us

Flexera is headquartered in Itasca, Illinois, and has offices worldwide. To contact us or to learn more about our products, visit our website at:

http://www.flexera.com

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- Facebook
- LinkedIn
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- Instagram

Chapter 1 Enterprise Product Integration Configuration and Troubleshooting Guide Contact Us

Prerequisites for Integration

Before you can use the integrated solution of FlexNet Manager Suite (On Premises or Cloud), AdminStudio, App Portal, and Workflow Manager, you first need to install the products and configure user accounts and domains. The following tasks need to be performed:

- Integrated Environment Overview
- Install and Set Up Applications
- Set Up Accounts and Configure Account Access Between Products
- Establish Two-Way Trusts Between Multiple Domains
- Port Requirements
- Recommended Proof-of-Concept Configuration



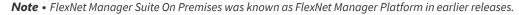
Note • FlexNet Manager Suite On Premises was known as FlexNet Manager Platform in earlier releases.

Integrated Environment Overview

Flexera Software's unified application usage management solution—comprised of FlexNet Manager Suite On Premises or Cloud, AdminStudio, App Portal, and Workflow Manager—gives you a consolidated and centralized approach to maximizing software value and optimizing usage across the application life cycle.

The following diagram gives you an overview of how these integrated applications communicate—via the Flexera Service Gateway—when performing the tasks involved in a single application's life cycle.





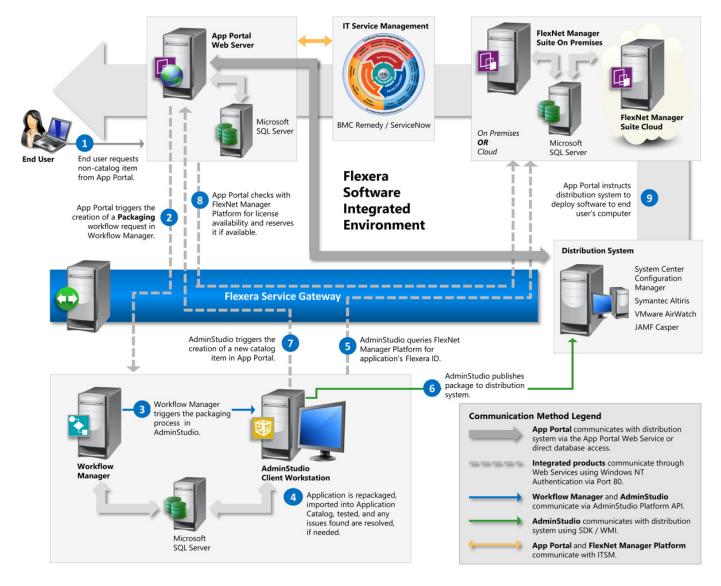


Figure 2-1: Flexera Software Integrated Environment Diagram

This application life cycle workflow includes the following steps:

#	Step	Description
1.	End user requests non-catalog item from App Portal.	Using the App Portal web site, an end user submits a request for a software item that is not currently in the App Portal catalog.
2.	App Portal triggers the creation of a Packaging workflow request in Workflow Manager.	After the end user's request for new software is approved, App Portal triggers the creation of a Packaging workflow request in Workflow Manager.
3.	Workflow Manager triggers the packaging process in AdminStudio.	Workflow Manager can be configured to trigger AdminStudio tasks such as repackaging, importing a package into the Application Catalog, performing tests, and resolving issues that are found, if needed.
4.	Application is repackaged, imported into Application Catalog, tested, and any issues found are resolved, if needed.	The package is ready for deployment.
5.	AdminStudio queries FlexNet Manager Suite for application's Flexera Identifier.	When the package is imported into the Application Catalog, AdminStudio automatically queries the FlexNet Manager Suite ARL and obtains the application's Flexera Identifier.
6.	AdminStudio publishes package to supported distribution system	After the software has been repackaged and tested, AdminStudio publishes the application to System Center Configuration Manager, Symantec Altiris Server, JAMF Casper Suite Server, or VMware AirWatch.
7.	AdminStudio triggers the creation of a new catalog item in App Portal.	When AdminStudio publishes the application, a catalog item for that application is automatically created in App Portal, identified by the same Flexera Identifier. End user can now request this software in App Portal.
8.	App Portal checks with FlexNet Manager Suite for license availability and reserves it if available.	App Portal queries FlexNet Manager Suite to obtain entitlement and usage data for that application including available license count and the number of licenses used. If a license is available, App Portal will automatically reserve it for the end user.
9.	App Portal instructs deployment system to deploy software to end user's computer.	App Portal instructs distribution system to deploy the software to the end user's computer.

Supported Version Matrix

For each release of the Flexera Software enterprise products, this matrix lists the inter-product supported versions.

Table 2-2 • Enterprise Product Integration Supported Version Matrix

	Compatible With				
Version	AdminStudio	App Portal	Workflow Manager	FNMP / FNMS On Premises	FNMS Cloud
AdminStudio 11.5 SP2		7.5.3 or later	6.5	9.2 SP1 or later	_
AdminStudio 2013		7.5.3 or later	2013	9.2 SP1 or later	_
AdminStudio 2014		7.5.3 or later	2014	9.2 SP1 or later	_
AdminStudio 2015 (2015 SP1)		7.5.3 or later	2015	9.2 SP1 or later	2014 or later
AdminStudio 2016 (2016 SP1, 2016 SP2)		7.5.3 or later	2015 or later	9.2 SP1 or later	2014 or later
				Note • Creating a Flexera Local Identifier requires FNMS 2015 R2 SP3 or later	
App Portal 7.5.3	11.5 SP2 or later		6.5 or later	9.2 SP1 or later	_
App Portal 7.5.5	11.5 SP2 or later		6.5 or later	9.2 SP1 or later	_
App Portal 2013	11.5 SP2 or later		6.5 or later	9.2 SP1 or later	_
App Portal 2014	11.5 SP2 or later		6.5 or later	9.2 SP1 or later	_
App Portal 2015 (2015 R2)	11.5 SP2 or later		6.5 or later	9.2 SP1 or later	2014 or later
App Portal 2016	11.5 SP2 or later		6.5 or later	9.2 SP1 or later	2014 or later
App Portal 2017				Note • The Advanced License Check feature requires FlexNet Manager Suite 2015 R2 SP5-02 Hotfix or later.	
Workflow Manager 6.5	11.5 SP2	7.5.3 or later		9.2 SP1 or later	_
Workflow Manager 2013	2013	7.5.3 or later		9.2 SP1 or later	_
Workflow Manager 2014	2014	7.5.3 or later		9.2 SP1 or later	_
Workflow Manager 2015	2015 or later	7.5.3 or later		9.2 SP1 or later	2014 or later
Workflow Manager 2016	2015 or later	7.5.3 or later		9.2 SP1 or later	2014 or later

	Compatible With				
Version	AdminStudio	App Portal	Workflow Manager	FNMP / FNMS On Premises	FNMS Cloud
FNMP 9.2 SP1	11.5 SP2 or later	7.5.3 or later	6.5 or later		
FNMP 9.2.3	11.5 SP2 or later	7.5.3 or later	6.5 or later		
FNMS On Premises 2014 (2014 R2, 2014 R3)	11.5 SP2 or later	7.5.3 or later	6.5 or later		
FNMS On Premises 2015 (2015 R2, all service packs)	11.5 SP2 or later	7.5.3 or later	6.5 or later		
FNMS On Premises 2016 FNMS On Premises 2017	11.5 SP2 or later	7.5.3 or later	6.5 or later		
FNMS Cloud 2014 (2014 R2, 2014 R3)	2015 or later	2015 or later	2015		
FNMS Cloud 2015 (2015 R2, all service packs)	2015 or later	2015 or later	2015		
FNMS Cloud 2016 FNMS Cloud 2017	2015 or later	2015 or later	2015 or later		

Table 2-2 • Enterprise Product Integration Supported Version Matrix

Install and Set Up Applications

In order to implement the enterprise product integration solution, you need to first install and set up the following versions of these Flexera Software applications:

Application	Version	Installation and Setup Instructions			
AdminStudio	11.5 SP2 or later				
Professional or Enterprise Edition		To install and set up AdminStudio:			
		1. Install AdminStudio, as described in the <i>AdminStudio Installation Guide</i> .			
		2. Open Application Manager and create an Application Catalog database on an SQL Server.			
		 Connect to the Flexera Service Gateway, as described in Connecting AdminStudio to the Flexera Service Gateway. 			
		4. Perform other configuration steps, as described in Configuring AdminStudio.			

Table 2-3 • Installation Instructions for Flexera Software Applications

Table 2-3 • Installation Instructions for Flexera Software Applications

Application	Version	Installation and Setup Instructions
App Portal	 7.5.3 or later (for FlexNet Manager Suite On Premises or FlexNet Manager Platform) 9.0.3 or later (for FlexNet Manager Suite Cloud) 	 <i>To install and set up App Portal:</i> Install App Portal, as described in App Portal Installation Guide. During installation, specify your distribution system information. Connect to the Flexera Service Gateway, as described in Connecting App Portal to the Flexera Service Gateway. Perform other configuration steps, as described in Configuring App Portal.
FlexNet Manager Suite On Premises	2014 or later	 To install and set up FlexNet Manager Suite On Premises: Install FlexNet Manager Suite On Premises, as described in the <i>Installing FlexNet Manager Suite On Premises</i> guide, which is available from the Flexera Software Product and License Center. Import the FlexNet Manager Suite On Premises Application
		 Recognition Library, as described in Importing the Application Recognition Library (ARL). Connect to the Flexera Service Gateway, as described in Connecting FlexNet Manager Suite On Premises to the Flexera Service Gateway. Perform other configuration steps, as described in Configuring FlexNet Manager Suite On Premises.

Application	Version	Installation and Setup Instructions
FlexNet Manager Platform	9.2.3	Note • Starting with the 2014 release, this product's name was changed to FlexNet Manager Suite On Premises.
		To install and set up FlexNet Manager Platform:
		 Install FlexNet Manager Platform, as described in the <i>FlexNet</i> Manager Platform Installation Guide, which is available from the Flexera Software Product and License Center.
		 Import the FlexNet Manager Platform Application Recognition Library, as described in Importing the Application Recognition Library (ARL).
		 Connect to the Flexera Service Gateway, as described in Connecting FlexNet Manager Suite On Premises to the Flexera Service Gateway.
		4. Perform other configuration steps, as described in Configuring FlexNet Manager Suite On Premises.
FlexNet Manager	2014 or later	Perform the following tasks:
Suite Cloud		Configuring the FlexNet Manager Suite Inventory Beacon
		• Registering FlexNet Manager Suite Cloud with the Flexera Service Gateway
		 Registering App Portal with FlexNet Manager Suite Cloud and Flexera Service Gateway

Table 2-3 • Installation Instructions for Flexera Software Applications

Table 2-3 • Inst	tallation Instructions	s for Flexera Softv	vare Applications
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Application	Version	Installation and Setup Instructions
Workflow Manager	6.5 or later	
		To install and set up Workflow Manager:
		1. Install Workflow Manager, as described in the <i>Workflow Manager</i> Installation Guide.
		2. Create companies and user accounts.
		3. Create workflow templates and projects.
		 Connect to the Flexera Service Gateway, as described in Connecting Workflow Manager to the Flexera Service Gateway.
		5. Perform other configuration steps, as described in Configuring Workflow Manager.
		<i>Important</i> • In order for product integration to work, Workflow Manage cannot be installed on the same server as App Portal.

Set Up Accounts and Configure Account Access Between Products

The Flexera Software Integrated Solution includes AdminStudio, App Portal, FlexNet Manager Suite On Premises or Cloud, the Flexera Service Gateway, Workflow Manager, and Microsoft System Center Configuration Manager (SCCM). All of these products communicate over a company network to provide a complete packaging and deployment solution that tracks usage and reports licensing.

When setting up these integrated Flexera Software products, you need to give certain accounts enhanced permissions to other products. These accounts and permissions are listed by product below.

- AdminStudio Accounts
- App Portal Accounts
- FlexNet Manager Suite On Premises / FlexNet Manager Platform Accounts
- Workflow Manager Accounts
- System Center Configuration Manager Accounts

AdminStudio Accounts

When setting up AdminStudio, you need to give certain accounts enhanced permissions to other products. The following table lists the AdminStudio accounts and the required permissions:

Table 2-4 • AdminStudio Accounts and Privileges in the Integrated Solution

AdminStudio Account	Product/Machine Account Needs Access To	Required Privileges
AdminStudio user accounts	Local workstation	Require administrator privileges on the workstation where they are running AdminStudio.
	System Center 2012 Configuration Manager (or later)	Require the Application Administrator role on System Center Configuration Manager.
	FlexNet Manager Suite / FlexNet Manager Platform	See Accounts for Integration of AdminStudio and App Portal with FlexNet Manager Suite.
	App Portal	When integrating with versions of App Portal prior to App Portal 2016, AdminStudio users just require access to the App Portal Web Site using Windows Authentication.
		When integrating with App Portal 2016 and later, AdminStudio users need to have read and write access to App Portal catalog items so that AdminStudio can create App Portal catalog items.
	SQL Server	In order to connect to an AdminStudio Application Catalog database, users require db_datareader, db_datawriter, execute, alter, and references permissions on the AdminStudio database. For detailed instructions on assigning these permissions, see Required Permissions on Application Catalog Databases.
		Tip • The AdminStudio user account does not require these permissions if connecting to SQL Server using an SQL Server user account (which already has the appropriate permissions).

Required Permissions on Application Catalog Databases

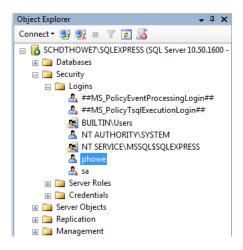
In order to connect to an AdminStudio Application Catalog database, users require db_datareader, db_datawriter, and execute, alter, and references permissions on the database.

To assign these required permissions, perform the following steps:

Task

To assign required permissions to an AdminStudio Application Catalog:

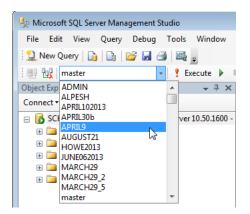
- 1. Open Microsoft SQL Server Management Studio.
- 2. In the **Object Explorer**, open the **Security > Logins** node and select the user account or user group that you want to assign permissions to.



- 3. Select **Properties** from the context menu. The **Login Properties** dialog box opens.
- 4. Select User Mapping in the tree. The User Mapping view of the Login Properties dialog box opens.

Select a page	Script 👻 📑 Help			
🚰 General	To octific + Mill Lieth			
Server Roles				
Para Mapping Securables	Users mapped to this login:			
Mar Status	Map Database	User	Default Schema	- ^
	APRIL9			_
	AUGUST21	phowe		
	HOWE2013			
	JUNE062013			-
	MARCH29			E
	MARCH29_2			
	MARCH29_5			
	master			
	model			
	msdb			-
	Guest account enabled for:	AUGUST21		
Connection	Database role membership for:			
	Database role membership for:			
Connection Server: SCHDTHOWE7\SQLEXPRESS	Database role membership for:			
Server: SCHDTHOWE7\SQLEXPRESS Connection:	Database role membership for: db_accessadmin db_backupoperator db_datareader db_datawnter			
Server: SCHDTHOWE7\SQLEXPRESS	Database role membership for: db_accessadmin db_backupoperator db_datawnter db_datawnter db_datadmin			
Server: SCHDTHOWE7\SQLEXPRESS Connection:	Database role membership for: db_accessadmin db_backupoperator db_datareader db_datawriter db_datadamin db_denydatareader			
Server: SCHDTHOWE7\SQLEXPRESS Connection: FLEXERA\PatriciaHowe	Database role membership for: db_accessadmin db_backupoperator db_datareader db_datareader db_ddladmin db_denydatareader db_denydatareader			
Server: SCHDTHOWE7\SQLEXPRESS Connection: FLEXERA\PatriciaHowe IV New connection properties	Database role membership for: db_accessadmin db_backupoperator db_datareader db_datawnter db_datawnter db_denydatareader db_enydatareader db_secuntyadmin			
Server: SCHDTHOWE7\SQLEXPRESS Connection: FLEXERA\PatriciaHowe Wiew connection properties Progress	Database role membership for: db_accessadmin db_backupoperator db_datareader db_datawnter db_denydatareader db_denydatawniter db_owner			
Server: SCHDTHOWE7\SQLEXPRESS Connection: FLEXERA\PatriciaHowe	Database role membership for: db_accessadmin db_backupoperator db_datareader db_datawnter db_datawnter db_denydatareader db_enydatareader db_secuntyadmin			
Server: SCHDTHOWE7\SQLEXPRESS Connection: FLEXERA\PatriciaHowe Wew connection properties Progress	Database role membership for: db_accessadmin db_backupoperator db_datareader db_datawnter db_datawnter db_denydatareader db_enydatareader db_secuntyadmin			
Server: SCHDTHOWE7\SQLEXPRESS Connection: FLEXERA\PatriciaHowe Wiew connection properties Progress	Database role membership for: db_accessadmin db_backupoperator db_datareader db_datawnter db_datawnter db_denydatareader db_enydatareader db_secuntyadmin			

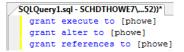
- 5. In the Users mapped to this login list, select the database that you want to assign permissions to.
- 6. In the **Database role membership for:** [DatabaseName] list, select db_datareader and db_datawriter.
- 7. Click OK to close the Login Properties dialog box.
- **8.** In the toolbar, open the drop-down list and select the name of the AdminStudio database that you want to assign permissions to.



- 9. Next, click the New Query button in the toolbar to open the Query Editor.
- **10.** Enter the following query:

```
grant execute to [username]
grant alter to [username]
grant references to [username]
```

For example:



11. Click the **Execute** button in the toolbar. The following message will be displayed:

Command(s) completed successfully.

Accounts for Integration of AdminStudio and App Portal with FlexNet Manager Suite

There are two requirements for accounts used in either AdminStudio or App Portal to allow integration with FlexNet Manager Suite / FlexNet Manager Platform:

• Members of an appropriate Active Directory security group—Because FlexNet Manager Suite or FlexNet Manager Platform is configured to use Windows Authentication, integration accounts must be members of an appropriate Active Directory security group in order to access FlexNet Manager Suite / FlexNet Manager Platform.

Note • While AdminStudio normally runs under the normal user account, any account used to integrate with FlexNet Manager Suite / FlexNet Manager Platform must be in an appropriate security group.

• Assigned to suitable roles—Internally within FlexNet Manager Suite / FlexNet Manager Platform, the accounts must be assigned to suitable roles that provide appropriate access controls.

Meeting these conditions allows the accounts both to look up products (with Flexera Identifiers) in the Application Recognition Library, and to set reservations against available licenses. The procedures for configuring accounts are described below.

- Permissions to Access FlexNet Manager Suite / FlexNet Manager Platform
- Privileges Within FlexNet Manager Suite 2015 or Later
- Privileges Within FlexNet Manager Platform 9.2.3
- Privileges Within FlexNet Manager Platform
- Special Settings for Multi-Server Implementations
- FlexNet Manager System Account on the AdminStudio or AppPortal Machines

Permissions to Access FlexNet Manager Suite / FlexNet Manager Platform

While it is possible to create an Active Directory domain group from scratch, this requires detailed knowledge of directories where FlexNet Manager Suite or FlexNet Manager Platform is installed. It is far simpler to make use of the existing group used to control access. At the same time, it is good practice to have a distinct group in which integration accounts are contained, named according to enterprise conventions. These two approaches can be used together by creating a custom group which is a child of the existing group now controlling access. The new child group inherits the access rights already functioning in its parent group.

To enable authentication for FlexNet Manager Suite / FlexNet Manager Platform:

- 1. Identify the Active Directory security group used to grant access to FlexNet Manager Suite / FlexNet Manager Platform. By default, this is called **MGS Compliance Users**.
- 2. In Active Directory, create a domain group as a child of MGS Compliance Users (or equivalent), and name the new group according to corporate conventions (for example, Flexera Integration Accounts).
- **3.** Add all the integration accounts (accounts for AdminStudio or App Portal users that may access features from FlexNet Manager Suite / FlexNet Manager Platform) to your new child group.

Privileges Within FlexNet Manager Suite 2015 or Later

Privileges to access various functional areas within FlexNet Manager Suite 2015 or later are managed through access rights that are assigned to roles within that product. When appropriate roles exist, user accounts must be both created as operators and assigned to the roles in order to inherit access rights.

- Configuring a New Role Within FlexNet Manager Suite 2015 or Later
- Creating the Appropriate Service Account Records

Configuring a New Role Within FlexNet Manager Suite 2015 or Later

To configure a new role within FlexNet Manager Suite, perform the following steps:



Task

To configure a new role within FlexNet Manager Suite:

1. In FlexNet Manager Suite, select Accounts on the Options menu:

John Smith 🔻 🏚 🔻
Accounts
System Health 🖉 🕨
Data Inputs
System Defaults
System Settings
FlexNet Manager Suite License

The All Accounts tab of the Accounts page opens.

2. Select the Roles tab. The Roles view opens.

3. Scroll down until you see the Web Service role and click the copy icon.

Web Service	12 Accounts	i 🗗 🥒

The Create a Role view opens.

Accour	Create and allocate ro	les and manage accounts.	
iii All Accounts	Create a Role		
All Accounts	Name:		
Unassigned Accounts	Description:	Through the web API, Web Service accounts may access many objects in the FlexNet M database. By default, privileges may be limited (for example, read-only).	anager Suite
Roles			
Noies	Access rights		
	Restrict the data available to	this role to objects owned by these groups and their descendants.	
	Location:	None	
	Corporate unit:	None	
	Cost center:	None	
	Category:	None	
			Expand all / Collapse all
	Administration		Custom ٵ
	Applications		Read only 🖪
	Business reporting po	ortal	None ◀

- 4. In the Name field, enter Integration.
- 5. Click the arrow next to each of the following product features and select the specified levels of access from the **Privileges** list:

Product Feature	Level of Access
Administration	None
Applications	 Select one of the following: If you are using AdminStudio 2016 or later and are going to be creating new local Flexera Identifier entries, select Full. If you are not using AdminStudio 2016 or later, select Read only.
Business reporting portal	None
Licenses	Full
Management views and reports	None
Roles	None

Product Feature	Level of Access
SAP	None
All other features	Read only

After you have set these access levels, the **Access rights** area should look like this:

Administration	None	•
Applications	Full	•
Business reporting portal	None	•
Contracts	Read only	•
Corporate units	Read only	•
Cost centers	Read only	•
Categories	Read only	•
Inventory devices	Read only	•
Discovery devices	Read only	•
Hardware assets	Read only	•
Licenses	Read only	•
Locations	Read only	•
Purchase orders	Read only	•
Management views and reports	None	•
Roles	None	•
SAP	None	•
Users	Read only	•
Vendors	Read only	•

6. Click Create.

Creating the Appropriate Service Account Records

With the role(s) configured, move on to creating the appropriate service account records. These record the account names (identical to the names registered in the Active Directory security group) that will exercise the access rights just defined.



Tip • Other procedures are possible, such as importing the accounts from Active Directory and subsequently registering them as service accounts. This procedure assumes that an Active Directory import is inconvenient.



To register a service account and assign to groups within FlexNet Manager Suite 2015 or later:

1. In FlexNet Manager Suite, select Accounts on the Options menu:



The All Accounts tab of the Accounts page opens.

2. Click Create a service account. The Add Service Member to page opens.

Flexera Softwar	re Account Management
My Account	Administration
Add Serv	vice Member to Flexera Melbourne QA Engineering 1
	* Required
Member Service Description	
Email Address*	Verify Email *
Name*	
Phone*	
Use an Existing Address	No thanks, I'll create a new address.
Street 1 *	
City*	
State / Province *	Please choose one
Country*	Please choose one v
	Save
	—

3. Enter the details of the App Portal Service account and then click **Save**. The **All Accounts** tab of the **Accounts** page opens, listing the new account name.

4. Select the new account in the list and then click **Open**. The **Account Properties** view opens.

Accour	NTS Create and allocate re	oles and manage accounts.	
iii All Accounts	Account Prope	erties App Portal Syste	m Account
ţ.	Account Account	appportal@yourcompany.com	
Unassigned Accounts	Name:	App Portal System Account	
ůů	Email: Job title:	appportal@yourcompany.com	
Roles	Permissions		
	Status:	Enabled	T
	Role:	Integration	X × 🔁

- 5. Set Status to Enabled.
- 6. Set Role to Integration.
- 7. Scroll to the bottom of the page and click **Save**.

Privileges Within FlexNet Manager Platform 9.2.3

Privileges to access various functional areas within FlexNet Manager Suite are managed through access rights that are assigned to roles within that product. When appropriate roles exist, user accounts must be both created as operators and assigned to the roles in order to inherit access rights.

- Configuring a New Role Within FlexNet Manager Platform
- Creating the Appropriate Operator Records

Configuring a New Role Within FlexNet Manager Platform

To configure a new role within FlexNet Manager Platform, perform the following steps:

Task	 <i>To configure a new role within FlexNet Manager Platform:</i> In FlexNet Manager Platform, in the left-hand console tree, select the Roles node. 	
	2.	Click Add a new role.
	3.	In the New role dialog box, enter a unique name for the role you want to create (for example, Integration Accounts).

- 4. Click **OK**.
- In the left-hand console tree, expand the Roles node to expose the newly-created role; right-click the role and select Manage access rights... from the context menu. The Manage Access Rights dialog box opens.

Manage Access Rights 🛛 💌			
se this page to set access rights fo Role: Integration Product Features Enterprise Scope	r all operators assigned to the selected role.		
	for the following product features:		
🎉 Software Assets:	Administrator access		
🜔 Hardware Assets:	Read-only access		
💷 Purchase Orders:	Read-only access		
🔯 Contracts:	Read-only access		
🙆 Vendors:	Read-only access		
😫 Users:	Read-only access		
Custom Views and Reports:	Normal access		
Business Reporting Portal:	No access		
🙀 Enterprise Groups:	Read-only access		
See Administration:	No access		
	OK Cancel	Apply	

6. Select the specified levels of access for the following product features:

Product Feature	Level of Access
Software Assets	Administrator access
Custom Views and Reports	Normal access
Business Reporting Portal	No access
Administration	No access
All other areas	Read-only access

7. Click OK.

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Tip • If you are concerned about users from AdminStudio using their accounts to log in to FlexNet Manager Platform and modify license data directly, you can repeat this procedure to create a second role exclusively for users of AdminStudio. Give it a distinct name, and rights identical with the above **except** that **Software Assets** require **Read-only access** for these personnel.

Creating the Appropriate Operator Records

With the role(s) configured, move on to creating the appropriate operator records. These record the account names (identical to the names registered in the Active Directory security group) that will exercise the access rights just defined.

Tip • Other procedures are possible, such as importing the accounts from Active Directory and subsequently registering them as operators. This procedure assumes that an Active Directory import is inconvenient.

Task	То	register an operator and assign to groups within FlexNet Manager Platform:
	1.	In FlexNet Manager Platform, in the left-hand console tree, select the Operators node.
	2.	Click Add.
	3.	In the General tab of the operator properties, to the right of the Account field, click the ellipsis button [] to open the Windows standard Select User dialog box.
	4.	Navigate to, and select, an account you previously registered in your Active Directory security group (such as Flexera Integration Accounts or MGS Compliance).
	5.	Record any other details you choose for this account. For example, for users of AdminStudio, you may wish to name the individual personnel for later tracking.
	6.	On the Roles tab, select Enable operator to use FlexNet Manager Platform.
	7.	At the bottom of the panel, click Add .
	8.	Use the fly-out list to choose the appropriate role (double-click, or select the row and click Select).
	9.	Click OK to save the operator's properties.
	10.	Repeat this procedure for each operator.
	Pr	ivileges Within FlexNet Manager Platform
	ass	vileges to access various functional areas within FlexNet Manager Platform are managed through access rights that are igned to roles within that product. When appropriate roles exist, user accounts must be both created as operators and igned to the roles in order to inherit access rights.
	٠	Configuring a New Role Within FlexNet Manager Platform
	٠	Creating the Appropriate Operator Records
	Co	nfiguring a New Role Within FlexNet Manager Platform
	To	configure a new role within FlexNet Manager Platform, perform the following steps:
Task	То	configure a new role within FlexNet Manager Platform:

- 1. In FlexNet Manager Platform, in the left-hand console tree, select the **Roles** node.
- 2. Click Add a new role.
- 3. In the New role dialog box, enter a unique name for the role you want to create (for example, Integration Accounts).
- 4. Click OK.

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 In the left-hand console tree, expand the Roles node to expose the newly-created role; right-click the role and select Manage access rights... from the context menu. The Manage Access Rights dialog box opens.

Manage Access Rights 🛛 💌			
se this page to set access rights fo Role: Integration Product Features Enterprise Scope	r all operators assigned to the selected role.		
	for the following product features:		
🎉 Software Assets:	Administrator access		
🜔 Hardware Assets:	Read-only access		
💷 Purchase Orders:	Read-only access		
🔯 Contracts:	Read-only access		
🙆 Vendors:	Read-only access		
😫 Users:	Read-only access		
Custom Views and Reports:	Normal access		
Business Reporting Portal:	No access		
🙀 Enterprise Groups:	Read-only access		
See Administration:	No access		
	OK Cancel	Apply	

6. Select the specified levels of access for the following product features:

Product Feature	Level of Access
Software Assets	Administrator access
Custom Views and Reports	Normal access
Business Reporting Portal	No access
Administration	No access
All other areas	Read-only access

7. Click OK.

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Tip • If you are concerned about users from AdminStudio using their accounts to log in to FlexNet Manager Platform and modify license data directly, you can repeat this procedure to create a second role exclusively for users of AdminStudio. Give it a distinct name, and rights identical with the above **except** that **Software Assets** require **Read-only access** for these personnel.

Creating the Appropriate Operator Records

With the role(s) configured, move on to creating the appropriate operator records. These record the account names (identical to the names registered in the Active Directory security group) that will exercise the access rights just defined.

Tip • Other procedures are possible, such as importing the accounts from Active Directory and subsequently registering them as operators. This procedure assumes that an Active Directory import is inconvenient.

$\approx =$					
Task	То	To register an operator and assign to groups within FlexNet Manager Platform:			
	1.	In FlexNet Manager Platform, in the left-hand console tree, select the Operators node.			
	2.	Click Add.			
	3.	In the General tab of the operator properties, to the right of the Account field, click the ellipsis button [] to open the Windows standard Select User dialog box.			
	4.	Navigate to, and select, an account you previously registered in your Active Directory security group (such as Flexera Integration Accounts or MGS Compliance).			
	5.	Record any other details you choose for this account. For example, for users of AdminStudio, you may wish to name the individual personnel for later tracking.			
	6.	On the Roles tab, select Enable operator to use FlexNet Manager Platform.			
	7.	At the bottom of the panel, click Add .			
	8.	Use the fly-out list to choose the appropriate role (double-click, or select the row and click Select).			
	9.	Click OK to save the operator's properties.			

10. Repeat this procedure for each account.

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Special Settings for Multi-Server Implementations

FlexNet Manager Suite On Premises or FlexNet Manager Platform may be installed on a single server, or on multiple servers so that the database is separate from the core compliance server. In such a multi-server implementation, the **App Pool Identity Account** configured within Microsoft IIS to support the web API (accessed by both AppPortal and AdminStudio) must be trusted by the separate SQL Server computer for delegation. For instructions see, Resolving Active Directory "Double Hop" Issues Which Occur if FlexNet Manager Suite and SQL Server are on Separate Computers.

FlexNet Manager System Account on the AdminStudio or AppPortal Machines

The FlexNet Manager Suite On Premises / FlexNet Manager Platform system account does not need access to AdminStudio or AppPortal because the communication is driven from the users of those products, not from FlexNet Manager Suite On Premises / FlexNet Manager Platform.

App Portal Accounts

The following table lists the App Portal accounts and the required permissions,

Table 2-5 • App Portal Accounts and Privileges in the Integrated Solution

App Portal Account	Product/Machine Account Needs Access To	Required Privileges
App Pool Identity Account / App Portal ESD Service Account	System Center 2012 Configuration Manager (or later)	Currently requires Application Administrator permission on System Center Configuration Manager. Note • In future releases, only access to the App Portal Web Service and READ access to the SCCM SQL Server database will be required.
App Pool Identity Account / App Portal ESD Service Account	FlexNet Manager Suite / FlexNet Manager Platform	See Accounts for Integration of AdminStudio and App Portal with FlexNet Manager Suite.

FlexNet Manager Suite On Premises / FlexNet Manager Platform Accounts

The following table lists the FlexNet Manager Suite On Premises / FlexNet Manager Platform accounts and the required permissions.

Table 2-6 • FlexNet Manager Suite On Premises / FlexNet Manager Platform Accounts and Privileges in the Integrated Solution

FlexNet Manager Suite On Premises or FlexNet Manager Platform Account	Product/Machine Account Needs Access To	Required Privileges
App Pool Identity Account	FlexNet Manager Platform machine	FlexNet Manager Platform must be configured to work with Windows Authentication.
		This App Pool Identity account for FlexNet Manager Platform needs to be trusted for delegation with the SQL Server computer. If your enterprise's security protocols require you install FlexNet Manager Platform and SQL Server on separate computers, you will need to enable a trusted delegation on the FlexNet Manager Platform computer to resolve this issue. For instructions, see Resolving Active Directory "Double Hop" Issues Which Occur if FlexNet Manager Suite and SQL Server are on Separate Computers.
FlexNet Manager System Account	AdminStudio and App Portal	The FlexNet Manager Platform system account does not need access to AdminStudio or App Portal because the communication is driven from the users of those products, not from FlexNet Manager Platform.

FlexNet Manager Suite Cloud Service Account and Token

The following table lists the required FlexNet Manager Suite Cloud account.

Table 2-7 • FlexNet Manager Suite Cloud Account and Token

FlexNet Manager Suite Cloud Account	Account Needs Access To	Creating a Service Account and Obtaining a Token
Service Account	Invoke APIs in the FlexNet Manager Suite Cloud	You need to create a FlexNet Manager Suite Cloud Account and obtain an access token, as described in Creating a FlexNet Manager Suite Cloud Service Account and Obtaining a Token.

Creating a FlexNet Manager Suite Cloud Service Account and Obtaining a Token

To create a FlexNet Manager Suite Cloud service account and obtain an access token (which you will need when connecting App Portal to FlexNet Manager Suite Cloud), perform the following steps.



To create a FlexNet Manager Suite Cloud Account:

- 1. Login to FlexNet Manager Suite Cloud.
- 2. Click on the Tools menu in the top right and select Accounts.

The Accounts view opens with the All Accounts tab selected.

- 3. Click Create a service account. The Add Service Member view opens.
- 4. Enter the details of the App Portal Service account and then click **Save**. The **Display Token** screen opens, listing your access token.
- 5. Copy this token to a safe location.



Important • Save this token to a permanent location. This is the only time the token will be displayed. If you fail to save the token or misplace it, it cannot be retrieved; you would be required to create a new service account in order to obtain a new token.

Workflow Manager Accounts

The following table lists the Workflow Manager accounts and the required permissions.

Table 2-8 • Workflow Manager Accounts and Privileges in the Integrated Solution

Workflow Manager Account	Product/Machine Requiring Privileges	Required Privileges
AMS_SYSTEM account	Workflow Manager server	The AMS_SYSTEM account on the Workflow Manager server requires the following privileges:
		• IIS_WPG group member —Must be a member of the local IIS_WPG group (or IIS_USRS) on the web server.
		• Modify permissions on file share—Must have "modify" permissions on the Workflow Manager file share.
		• Email permissions —Permission to send e-mail through the SMTP server.
		• Active Directory query permission—Permission to query Active Directory.
		• Local Administrators group member—If you will be calling any of the AdminStudio Platform APIs in the iPlugin DLL, this account must be a member of the local Administrators group.
App Pool Identity Account	SQL Server	Starting with Workflow Manager 2013, if you configure Workflow Manager to connect to SQL Server with Windows Authentication, the domain account that you specify for the App Pool needs db_reader, db_writer, and execute permissions on the AdminStudio database.
		Note • The Workflow Manager account does not require these permissions if connecting to SQL Server using an SQL Server user account (which already has db_reader, db_writer, and execute permissions).

System Center Configuration Manager Accounts

The following table lists the System Center 2012 Configuration Manager (or later) accounts and the required permissions.

 Table 2-9 • System Center Configuration Manager Accounts and Privileges in the Integrated Solution

System Center 2012 Configuration Manager (or Later) Account	Product/Machine Requiring Privileges	Required Privileges
App Pool identity account	System Center 2012 Configuration Manager (or later) Server	Requires privileges to run System Center Configuration Manager, but does not require special privileges to any of the other products in the integrated solution.

Establish Two-Way Trusts Between Multiple Domains

Windows NT authentication is used to communicate across these integrated Flexera Software products. Therefore, if the customer's environment contains multiple domains, and if your Flexera Software products are installed on different domains, it is recommended that all domains have two-way trusts between them.

- A trust between domains is required for communication—Users in one domain need to be authenticated and authorized to use resources in another domain. To provide authentication and authorization capabilities between clients and servers in different domains, there must be a trust between the two domains. Trusts are the underlying technology by which secured Active Directory communications occur, and are an integral security component of the Windows Server network architecture.
- **Trusts act as bridges that allow only validated authentication requests to travel between domains**—When a trust exists between two domains, the authentication mechanisms for each domain trust the authentications coming from the other domain. Trusts help provide for controlled access to shared resources in a resource domain (the trusting domain) by verifying that incoming authentication requests come from a trusted authority (the trusted domain). In this way, trusts act as bridges that allow only validated authentication requests to travel between domains.
- **Two-way trusts**—How a specific trust passes authentication requests depends on how it is configured; trust relationships can be *one-way*, providing access from the trusted domain to resources in the trusting domain, or *two way*, providing access from each domain to resources in the other domain.

For more information and instructions, see the following articles:

- MSDN: What Are Domain and Forest Trusts?
- MSDN: How Domain and Forest Trusts Work
- TechRepublic: An Overview of the Active Directory Domains And Trusts Console

Port Requirements

In the integrated solution, FlexNet Manager Suite / FlexNet Manager Platform, AdminStudio, App Portal, and Workflow Manager are required to communicate with each other, and that communication requires that certain ports are opened on firewalls between the products. This section serves as a reference for the ports that the products use, and it can be used as a basis for configuring firewall rules.

- App Portal / App Broker Outbound Port Requirements
- AdminStudio Outbound Port Requirements
- Workflow Manager Outbound Port Requirements
- FlexNet Manager Suite Outbound Port Requirements
- Flexera Service Gateway Outbound Port Requirements

App Portal / App Broker Outbound Port Requirements

App Portal / App Broker has the following outbound port requirements.

Table 2-10 • App Portal	/ App Broker Outbound	Port Requirements
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Target Program	Uses These Ports			
Active Directory	See the following article in the Microsoft TechNet Library:			
	Active Directory and Active Directory Domain Services Port Requirements http://technet.microsoft.com/en-us/library/dd772723(v=WS.10).aspx			
Flexera Service Gateway	• HTTP traffic over 8280.			
	HTTPS traffic over 9443.			
	Note • This is a one-time lookup of the FlexNet Manager Suite endpoint when the			
	Flexera Service Gateway server is configured (or reconfigured) in App Portal. After that,			
	the FlexNet Manager Suite endpoint is stored in the App Portal database, and no			
	further lookups to the Flexera Service Gateway server are necessary under normal			
	operating conditions.			
FlexNet Manager Suite	• HTTP traffic over TCP 80.			
	• HTTPS traffic over TCP 443 (or customer-designated alternate port).			

Table 2-10 • App Portal / App Broker Outbound Port Requirements (cont.)

Target Program	Uses These Ports	
System Center Configuration Manager (App Portal Web Service)	 hTTP traffic over TCP 80. HTTPS traffic over TCP 443 (or customer-designated alternate port). Note • If using SCCM 2007, the option to refresh client policy requires additional pole between the App Portal/Broker server and the client for RPC/WMI. However, this is a rare, as it also requires the App Portal/Broker service account to have local admin permissions on every client, which typically isn't allowed/realistic in most customer environments. In SCCM 2012/ConfigMgr Current Branch, we take advantage of the client notification channel between the SCCM server and the client, so there is no per requirement for communication directly from App Portal/Broker to the client. 	
SQL Server	SQL traffic over TCP 1433 (or customer-designated alternate port).	
• App Portal Database		
• FlexNet Manager Suite Database		
 System Center Configuration Manager Database 		
External Systems such as ITSM, Orchestrator, etc.	Usually HTTP (TCP 80) / HTTPS (TCP 443), but dictated by the external system, not App Portal/Broker.	

AdminStudio Outbound Port Requirements

AdminStudio has the following outbound port requirements.

Table 2-11 • AdminStudio Outbound Port Requirements

Target Program	Uses These Ports
Active Directory	See the following article in the Microsoft TechNet Library:
	Active Directory and Active Directory Domain Services Port Requirements http://technet.microsoft.com/en-us/library/dd772723(v=WS.10).aspx
App Portal	80
Flexera Service Gateway	9443
	8280

Table 2-11 • AdminStudio Outbound Port Requirements (cont.)

Target Program	Uses These Ports
FlexNet Manager Suite	80
	443
	8889
System Center Configuration	9 (Wake on LAN)
Manager	67, 68 (DHCP)
	69 (TFTP)
	80 (HTTP)
	135 (RPC)
	389 (LDAP)
	443 (HTTPS)
	445 (Server Message Block, SMB)
	636 (LDAP SSL)
	2701 (Remote Control)
	3268 (LDAP Global Catalog)
	3269 (LDAP Global Catalog SSL)
	3389 (Remote Assistance)
	4011 (BINL)
	5985 (Windows Remote Management HTTP)
	5986 (Windows Remote Management HTTPS)
	8530, 8531 (HTTP and HTTPS)
	10123 (Client Notification)
	16993 (Power control, provisioning, and discovery)
	16995 (Serial over LAN and IDE redirection)
	25536 (Wake-up proxy)
	Note • For more information, see the following article in the Microsoft TechNet Library: Technical Reference for Ports Used in Configuration Manager at http://technet.microsoft.com/en-us/library/hh427328.aspx
SCCM File Share Server	445 (Server Message Block, SMB)
SMTP Server	25

Table 2-11 • AdminStudio Outbound Port Requirements (cont.)

Target Program	Uses These Ports
SQL Server	1433 (SQL Server Service)
	1434 (SQL Server Browser)
	4022 (SQL Server Service Broker)
	Note • If SQL Server is configured to listen on an alternate port, make sure the firewall allows communication on that port.
Workflow Manager	80

Workflow Manager Outbound Port Requirements

Workflow Manager has the following outbound port requirements.

Table 2-12 • Workflow Manager	r Outbound Port Requirements
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Target Program	These Ports
Active Directory	See the following article in the Microsoft TechNet Library:
	Active Directory and Active Directory Domain Services Port Requirements http://technet.microsoft.com/en-us/library/dd772723(v=WS.10).aspx
Flexera Service Gateway	9443
	8280
SMTP Server	25
SQL Server	1433 (SQL Server Service)
	1434 (SQL Server Browser)
	4022 (SQL Server Service Broker)
	Note • If SQL Server is configured to listen on an alternate port, make sure the firewall

allows communication on that port.

FlexNet Manager Suite Outbound Port Requirements

FlexNet Manager Suite has the following outbound port requirements.

Table 2-13 • FlexNet Manager Suite Outbound Port Requirements

Target Program	Uses These Ports
Active Directory	See the following article in the Microsoft TechNet Library: Active Directory and Active Directory Domain Services Port Requirements http://technet.microsoft.com/en-us/library/dd772723(v=WS.10).aspx
Flexera Service Gateway	9443 8280
SMTP Server	25
SQL Server	 1433 (SQL Server Service) 1434 (SQL Server Browser) 4022 (SQL Server Service Broker) Note • If SQL Server is configured to listen on an alternate port, make sure the firewall allows communication on that port.

Flexera Service Gateway Outbound Port Requirements

Flexera Service Gateway has the following outbound port requirements.

Table 2-14 • Flexera Service Gateway Outbound Port Requirements

Target Program	Uses These Ports
Active Directory	See the following article in the Microsoft TechNet Library:
	Active Directory and Active Directory Domain Services Port Requirements http://technet.microsoft.com/en-us/library/dd772723(v=WS.10).aspx
SMTP Server	25

Recommended Proof-of-Concept Configuration

When performing a proof-of-concept demonstration of AdminStudio / App Portal / FlexNet Manager Platform integration, the following self-enclosed infrastructure is recommended:

Table 2-15 • Recommended Proof-of-Concept Configuration

Machine	Operating System	Applications		
Machine 1: AdminStudio	Windows Server OS (2008 R2 or 2012)	 System Center 2012 R2 Configuration Manager (or later) 		
		• SQL Server 2012 or later		
		• AdminStudio 2014 or later		
Machine 2: App Portal	Windows Server OS (2008 R2 or 2012)	• App Portal 2014 or later		
Machine 3: FlexNet Manager Suite On	Windows Server OS (2008 R2 or 2012)	• FlexNet Manager Suite On Premises 2014 or later		
Premises		• SQL Server 2012 or later		
		• Flexera Service Gateway		
Machine 4:	Windows Server OS (2008 R2 or 2012)	Domain Controller		
Domain Controller		DNS / DHCP		
Machine 5: System Center Configuration Manager Client	Windows Desktop OS (Windows 8, 7, or XP)	 System Center 2012 R2 Configuration Manager (or later) Client 		
		Note • Used to test requesting an application from App Portal and observing it being installed.		

Installing and Configuring Flexera Service Gateway 2

Flexera Service Gateway 2 is a component that enables AdminStudio, App Portal, Workflow Manager, and FlexNet Manager Suite / FlexNet Manager Platform to communicate.

Information about installing and using Flexera Service Gateway 2 can be found in the following guide:

Flexera Service Gateway 2 Installation and Administration Guide

Chapter 3 Installing and Configuring Flexera Service Gateway 2

Configuring the FlexNet Manager Suite Cloud Environment

This section explains how to configure FlexNet Manager Suite Cloud for integration with App Portal.

- Configuring the FlexNet Manager Suite Inventory Beacon
- Registering FlexNet Manager Suite Cloud with the Flexera Service Gateway
- Registering App Portal with FlexNet Manager Suite Cloud and Flexera Service Gateway

Configuring the FlexNet Manager Suite Inventory Beacon

An inventory beacon is a computer located within your enterprise that gathers software inventory and other information that you specify, and uploads the data to FlexNet Manager Suite.

You download the software to install on an inventory beacon server from FlexNet Manager Suite. After installation, you use the inventory beacon software to download a configuration file that has been customized for this beacon (do not share these files between beacons) and load it into the beacon.

To configure the FlexNet Manager Suite environment, perform the following steps:

Task

To configure the FlexNet Manager Suite inventory beacon:

1. Obtain your Service Account details (URL, account name, password, FlexNet Manager Suite Cloud access token) for an instance of FlexNet Manager Suite Cloud.



Important • Record your FlexNet Manager Suite Cloud access token in a secure location. This token cannot be obtained again for an existing service account; a new service account would have to be created.

2. On the machine where you want to install the inventory beacon software, launch FlexNet Manager Suite and log in.



Now, it's easier than ever to achieve Software License Optimization.

As the complexity of managing software licenses continues to grow, Flexera Software's **FlexNet Manager Suite** is making it easier to maintain continuous license compliance and reduce ongoing costs for software.

The new Software as a Service (SaaS) delivery model of our market leading Software License Optimization solution provides the insights needed to make informed business decisions with features such as:

- At-a-glance license compliance position
- · Visibility into areas of overspending and liability
- Views across the whole business, a single business unit, a specific publisher, software product or license

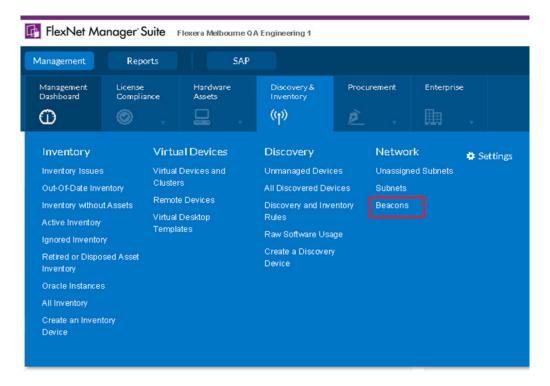
The FlexNet Manager Suite Home page is displayed.



Configuring the FlexNet Manager Suite Inventory Beacon

	anager [.] Suite	Plexera Melbourne QA	Engineering 1				Patricia Howe ♥	¢. 1
Management	Reports	SAP						
Management Dashboard	License Compliance	Hardware Assets	Discovery & Inventory	Procurement	Enterprise			
0	.							6
Publishers i Under purc	in breach 33	Dashboa Unlicensed installation	ons Licenses s	sunder-consumed by 5% or more 154 Over spent (€) 55,493	© Unauthorized	l installations	(φ) Devices missing for 60 2,43 Total devices: 2,488	lays
Publishers with t	he most products	s in breach	Symantec	Corel		inventory 9	Discovered devices al	with lerts 2

3. On the Discovery & Inventory tab, click Beacons in the Network group.



The **Beacons** page opens.

FlexNet Manager Suite	exera Melbourne QA	Engineering 1				Patricia Howe 🔻 📫
Management Reports	SAP					
Management License Dashboard Compliance	Hardware Assets	Discovery & Inventory	Procurement	Enterprise		
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					Configure a beacon	Deploy a beaco
Beacons All beacons on	vour network					
	your network.					
results returned 20 ▼ rows per pa	ge 👲 🔻		3		6 Q Search	
sacon/Subnet		Beacon status		Policy status	Site nam e	Actions
AP BLR_2K8QA1		Not reporting n	ormally	Out of date		t /
AppPortalQA-BLR		Operating nom	nally	Up to date		t /
F83 Inventory Beacon		Never reported	I	No policy		i /
		A				1 /
ISASBeacon		Operating nom	nally	Up to date		u _*
ISASBeacon Laurents beacon		Never reported		Up to date No policy		1 J
Laurents beacon 1		Never reported		No policy		11
Laurents beacon 1		Never reported	ed at server	No policy No policy		1 J 1 J
Laurents beacon 1 Laurents Machine Beacon 2 mgs13beacon		Never reported Never reported Beacon disable	ed at server nally	No policy No policy No policy		1 J 1 J 1 J
Laurents beacon 1 Laurents Machine Beacon 2 mgs13beacon MikeMarinoBeacon		Never reported Never reported Beacon disable Operating nom	ed at server nally	No policy No policy No policy No policy		
Laurents beacon Laurents Machine Beacon mgs13beacon MikeMarinoBeacon Rob's training beacon		Never reported Never reported Be acon disable Operating nom Never reported	id at server hally id at server	No policy No policy No policy No policy No policy		
Laurents beacon Laurents Machine Beacon mgs13beacon MikeMarinoBeacon Rob's training beacon WalBeaconT2		Never reported Never reported Beacon disable Operating nom Never reported Beacon disable	id at server hally id at server id at server	No policy No policy No policy No policy No policy No policy		

4. Click the **Deploy a beacon** button. The **Deploy a Beacon** page opens.

👍 FlexNet Ma	anager [.] Suite	Flexera Melbourne Q#	A Engineering 1			
Management	Reports	SAP				
Management Dashboard	License Compliance	Hardware Assets	Discovery & Inventory	Procurement	Enterprise	
	. (۲			pè .	tta 🗸	

Deploy a Beacon

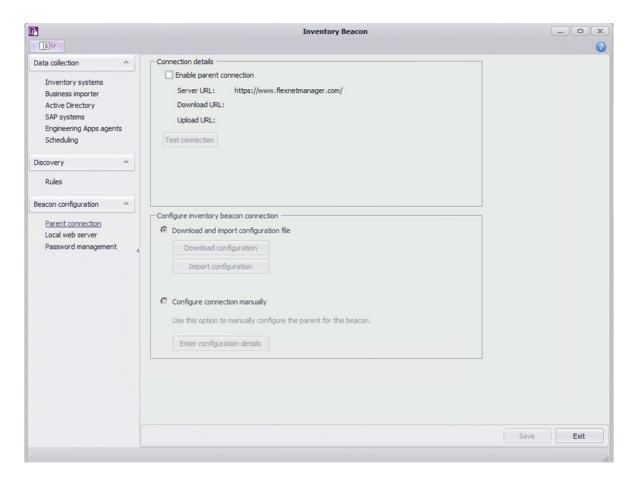
	Expand all / Collapse all
Download a beacon	▼
Version to deploy: Deploy the approved version (10 Version to deploy: Deploy the approved version (10 Version to deploy: View Change History for Flexera Inventory Beacon	
Beaconset up	۲
Connect beacon to data sources	۲
Linking subnets with your beacon	•
	Ok

- 5. Click the **Download a beacon** button. The inventory beacon software is downloaded.
- 6. Run the inventory beacon installer using the default settings.



Important • Make sure that you connect to the cloud instance and download the inventory beacon software on the machine where you intend to install it.

7. Once installed, launch the **Inventory Beacon** executable and click on **Parent connection** under **Beacon configuration**. The **Parent Connection** details are displayed.



8. Select the Enable parent connection option. The Download configuration and Import configuration buttons under Configure inventory beacon connection are enabled.

	Inventory Beacon	
		0
Data collection ^ Inventory systems Business importer Active Directory SAP systems Engineering Apps agents Scheduling Discovery Rules	Connection details Image: Connection Server URL: https://www.flexnetmanager.com/ Download URL: Upload URL: Test connection	
Beacon configuration ^ Parent connection* Local web server Password management	Configure inventory beacon connection Configure inventory beacon connection Download and import configuration Import configuration Import configuration	
	C Configure connection manually Use this option to manually configure the parent for this beacon. Enter configuration details	
	Save	Exit

9. Click the **Download configuration** button. The **Configure a Beacon** page of FlexNet Manager Suite Cloud opens, displaying a **Unique ID** number.

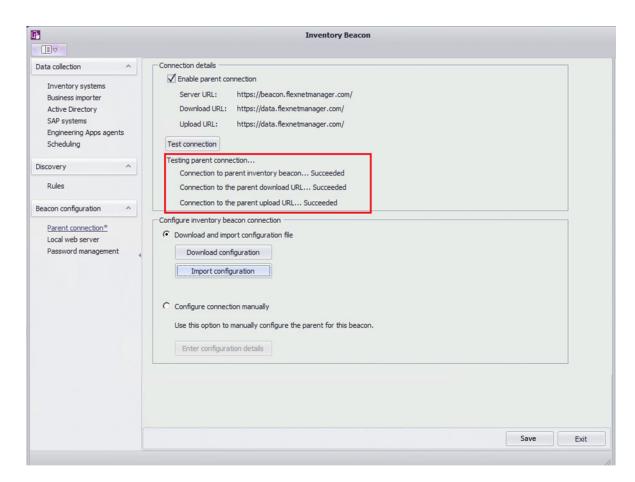
Configuring the FlexNet Manager Suite Inventory Beacon

Û	۲	T linet	Lended Install	T ation of	((₁))	T	È	×	鼬	÷	0
		Invento	ry beacons and this proces	re now s	self upgradin		e from the U	Jpgrade	mode optior	S	
		For nor	mal operation	is, ensu	re that the C	onfigura	tion status	is Enable	ed.		
			lame field, pro ognize later in				ctive name	for this b	eacon that ye	bu	
		the con the con	Il fields are configuration file figuration file figuration file the beacon.	to your	inventory be	acon. Wi	nen the dow	nload is o	complete, im	port	
		Manage	tablishes com er Suite serve ry sources wh	r. You v	vill also need	to config	gure local co	nnection	s to your	Í	
Parent	beacon:	None				Sea	rch				
Ur	nique ID:	a123456	7-b001-3456	-c12c-de	6789e23456	7					
	Name:	MyBeac	onInstance								
Upgrad	le mode:	Always u	use the appro	ved ver	sion (current	ly 1 🔻					
Configuratio	n status:		abled abled								
Cancel											Download configuration

- 10. In the Name field, enter a name to identify this inventory beacon instance.
- 11. Click the Download configuration button.
- 12. Return to the Parent Connection view of the Inventory Beacon software.

	Inventory Beacon	X
		0
Data collection ^ Inventory systems Business importer Active Directory SAP systems Engineering Apps agents Scheduling Discovery Rules	Connection details Connection Server URL: https://www.flexnetmanager.com/ Download URL: Upload URL: Test connection	
Beacon configuration ^ Parent connection" Local web server Password management	Configure inventory beacon connection Configure inventory beacon connection Download and import configuration Import configuration Import configuration	
	C Configure connection manually Use this option to manually configure the parent for this beacon. Enter configuration details	
	Save	Exit

- 13. Click on the Import configuration button. You will be prompted to upload a configuration file.
- **14.** Upload the flxconfig configuration file that you downloaded from the **Configure Beacon** page of FlexNet Manager Suite Cloud.
- 15. Click the Test connection button. Progress messages are displayed.



- **16.** Click **Save** and **Exit**, and then relaunch the Inventory Beacon software.
- **17.** Under **Data collection**, click on **Inventory systems** and configure your System Center Configuration Manager instances.

			Inventory Beacon					-	
									?
Data collection ^	Connection name	Create SQL Sou	rce Connection		× verla	pping inve	Last run	Next ru	ın
Inventory systems Business importer		Connection Name:	TEST SCCM						
Active Directory SAP systems		Source Type:	SCCM	•					
Engineering Apps agents Scheduling		Server:	SCHAPCM12IND						
Discovery ^		Authentication:	Windows Authentication						
Rules			SQL Authentication	unty					
Beacon configuration ^		Username:	sa						
Parent connection Local web server		Password:	•••••						
Password management		Database:	CM_IND	•					
				st Connection		×			
		Overlapping Inv	entory Filter es may report inventory	-					
		another data source	te reports more recent in	Database connectio	n succeeded				
		O Ignore the dev	rice's inventory from this						
		O Ignore the dev	rice's inventory if older th		OK				
		Import the investigation of	entory from this source for p	ossible merging					
		Test Connection		Save Cancel					
					Edi	t	Delete	Schedule	Execute Now
								Save	Exit

 \bigcirc

Tip • If you face issues configuring with **Windows Authentication** and **Windows (Specific Account)**, then try using **SQL Authentication**. To do this, this you need to set the **Authentication** mode to **SQL and Windows Authentication mode** on your SQL server hosting the System Center Configuration Manager database.

18. Save the inventory system settings. The new inventory system settings will be listed on the **Inventory Systems** view.

3				Inventory B	eacon				
									(
Data collection ^		Connection name	Туре	Server	Database	Connection string	Overlapping inve	Last run	Next run
Inventory systems	•	TEST SCCM	SCCM	SCHAPCM12IND	CM_IND		Imported		
Business importer									
Active Directory									
SAP systems Engineering Apps agents									
Scheduling									
Discovery ^									
Rules									
Beacon configuration ^									
Parent connection									
Local web server									
Password management	4								
						New *		Delete	chedule Execute No
						New *	Edit	Delete	chedule Execute Not

- **19.** Select the connection and click **Execute Now**.
- **20.** Return to FlexNet Manager Suite Cloud.
- 21. On the **Discovery & Inventory** tab, click **Beacons** in the **Network** group. The **Beacons** page opens and lists the newly installed inventory beacon.

FlexNet Mo	anager ⁻ Suite	Flexera Melbourne	QA Engineering	1				•	Reconcil	led: 11/2	1/2014 9):38 pm	Patricia H	łowe ▼	¢° ₹
Management	Reports	SA	Р												
Management Dashboard	License Compliance	Hardware Assets	Discover Inventor		Procure	ment	Enterprise	2							
Ο	ø .	무 .	((†))	+	Þ	+	Ħ	×							0
D											Conf	figure a beacon	Deplo	oy a bea	con
Beacon	S All beacons o	n your network.													
1 result returned	20 🔻 rows per pa	ge 💄	T				Ξ	_		ΙŦ	0	Q My			
Beacon/Subnet			Beacon status			P	olicy status				Site n	ame		Actions	
MyBeaconInstance			Operating norma	lly		N	lo policy							ŧ /	

22. On the License Compliance tab, click Reconcile.

anagement	Reports		SAP									
Management Dashboard	License Compliance	Hardwa Assets	re	Discover Inventor		Procure	ement	Enter	rprise			
Û	\odot			(y)								
Optimization	Compliance		Licen	ses		Applic	ations		Evidend	æ	Events	
Simulations	Licenses in Brea Unlicensed Insta Recommended Changes	allations	Licens	Rule Sets	Installed Applications Discovered Eviden Unmanaged Applications Inactive Evidence Managed Applications Ignored Evidence Deferred Applications All Evidence					vidence vidence	License Expiry License Contract Expiry Licenses with Payments Due	
	Publisher Summ Product Summa License Summa	ry	Create	a License			Application				🏶 Reconcile	

The **Reconcile** page opens.

FlexNet Ma	anager [.] Suite	Flexera Melbourne Q	A Engineering 1		
Management	Reports	SAP			
Management Dashboard	License Compliance	Hardware Assets	Discovery & Inventory	Procurement	Enterprise
Φ	ø ,				
Reconc	Calculate	all license positions s	ystem wide.		
🖶 Last reco	ncile			Run red	concile
	Status: Suc	cess		Update i	
	Occurred: 11/2	21/2014 9:38:06 pm		Recor	ncile
	Duration: 0h 6				
L	ast Inventory: 11/2	21/2014 9:38:07 pm			

23. Select the Update inventory for reconciliation option and then click the Reconcile button.

After about 15 to 20 minutes, your System Center Configuration Manager inventory should be listed in the FlexNet Manager Suite Cloud user interface.

Registering FlexNet Manager Suite Cloud with the Flexera Service Gateway

To register FlexNet Manager Suite Cloud with the Flexera Service Gateway, perform the following steps.

Note • In order to perform this step, you need to have a FlexNet Manager Suite license that has the **FNMP API integration enabled** option set to **Yes**. To see if this option is enabled, open the System menu and select **FlexNet Manager Suite License**.

⊵=) Task

To register FlexNet Manager Suite Cloud with the Flexera Service Gateway:

- 1. Download the Flexera Service Gateway Registration tool and webapi.config file from the FlexNet Manager Suite Cloud web site by performing the following steps:
 - a. Click on the Settings icon (top right corner) and then click System Settings.



The System Settings page opens.

b. Open the **Web API** tab.

Registering FlexNet Manager Suite Cloud with the Flexera Service Gateway

FlexNet M	Reports	SAP	A Lingineering T		Ketu	nciled: 12/2/2014 9:45 pm	Patricia Howe ♥	¢
Management Dashboard	License Compliance	Hardware Assets	Discovery & Inventory	Procurement	Enterprise			
	Ø ,							
ystem	Setting	S Control many	/ aspects of the syste	m's automated behav	iour.			
Assets		_	ite Web AP					
			rvice Gateway					
Contracts	Gateway, downloa Flexera Service G	id the two files below	/ to a convenient tem h the registration tool	porary location (such		ager Suite web API with puter that can access you		e
((₁))	2. Flexera Servi	ce Gateway registrat	ion tool					
Inventory								
$\overline{\oslash}$								
Licensing								
Ē								
Purchases								
(
ServiceNow								
iii								
Users								
Web API								

Note • The Web API tab is only displayed when that license term is present.

- c. Click FlexNet Manager Suite Web API configuration. The webapi.config file is downloaded.
- d. Click Flexera Service Gateway registration tool. The RegisterFlexeraServiceGateway.exe file is downloaded.

Note • While you can download these two files onto any computer, the computer must have network access to "your" gateway server.

2. Run the Flexera Service Gateway Registration tool (RegisterFlexeraServiceGateway.exe) and enter the Flexera Service Gateway host name, Port, User name, and Password

Registering $\ensuremath{\mathsf{FlexNet}}$ Manager Suite Cloud with the $\ensuremath{\mathsf{Flexera}}$ Service Gateway

C:\Users\appportal\Desktop\	RegisterFlexeraSer	viceGateway.exe			_ 0	×
Flexera Service Gateway I	Registration				×	
Flexera Service G	ateway					
Flexera Service Gateway allows connection information for your F			e product	s. Please enter		
Flexera Sevice Gateway host:			Port:	9443		
Flexera Sevice Gateway adminis	trator credentials:					
User name:						
Password:						
Please import the FlexNet Manag	er Suite Web API conf	iguration file.				
Configuration:				Import		
			ОК	Cancel	1	
						•
						-

Note • The host can be an IP address, FQDN, or just a server name (if the DNS is OK).

- 3. Next to **Configuration**, click **Import** and select the webapi.config file that you just downloaded.
- **4.** Click **OK**.

Registering App Portal with FlexNet Manager Suite Cloud and Flexera Service Gateway

To register App Portal with FlexNet Manager Suite Cloud and Flexera Service Gateway, perform the following steps.

Task

To register App Portal with FlexNet Manager Suite Cloud and Flexera Service Gateway:

- 1. Obtain the FlexNet Manager Suite Cloud access token for your login name.

Note • For instructions on obtaining a FlexNet Manager Suite Cloud access token, see FlexNet Manager Suite Cloud Service Account and Token.

- 2. Launch App Portal.
- 3. On the Admin tab, select Site Management > Settings > Integration.
- 4. Enter the Flexera Service Gateway Server Name and the FlexNet Manager Platform Cloud Access Token.

App Portal Menu	Ą	📀 Save	
K Site Management	*	General Web Site Deployment	Active Directory Email Timers WOL Security Integration
Gatalog Security		Enable App Portal API	(http://server/esd/api.asmx) You should modify NTFS Permissions on the api.asmx file to prevent unauthorized access prior to enabling the API.
🌼 Settings		Intrinsic Swimage Encore Integration	
餐 Imported Users and Compute	rs ×	Enable Swimage Encore Integration	
Crror Log		Path to Encore API:	
📄 Email Log			e.g. http://EncoreServer:8008/IntegrationWS.asmx
Expressions		Default Scope ID	4
Active Directory	٣	Orchestrator Service URL	
& Workflows		Flexera Service Gateway Server Name	NYCAPPROD8801
2 Workflow Groups	٣		Test
🍇 Workflow Status			
Categories	-		Following services are currently registered with Flexera Service Gateway
💠 Catalog		J	App Portal [schapappcm12kav] FlexNet Manager Platform [flexnetmanager.com]
Commands and Actions	Ŧ		
Communication		FlexNet Manager Platform Cloud Access Token	••••••
Catalog Management	×.	Alternate FlexNet Manager Platform Username (DOMAIN\Username)	
Inventory Management		Alternate FlexNet Manager Platform Password	
Deployment Management	-		
🛐 History		6::nCA	

5. Click Save.

Chapter 4 Configuring the FlexNet Manager Suite Cloud Environment

Registering App Portal with FlexNet Manager Suite Cloud and Flexera Service Gateway

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Configuring FlexNet Manager Suite On Premises

Note • FlexNet Manager Suite On Premises was previously known as FlexNet Manager Platform.

When integrated with App Portal and AdminStudio, you can use FlexNet Manager Suite On Premises to automatically manage application licenses for App Portal catalog items. This section explains how to connect FlexNet Manager Suite On Premises to the Flexera Service Gateway so that it can communicate with App Portal and AdminStudio, and how to troubleshoot any issues that you might encounter.

- Testing FlexNet Manager Suite On Premises Server Authentication Settings
- Connecting FlexNet Manager Suite On Premises to the Flexera Service Gateway
- Importing the Application Recognition Library (ARL)
- Troubleshooting FlexNet Manager Suite Communication Issues
- Viewing an Application's Flexera ID in FlexNet Manager Suite
- Upgrading FlexNet Manager Suite's Compliance Console

Important • To perform the steps in this chapter, you need to have already installed FlexNet Manager Suite On Premises.

Testing FlexNet Manager Suite On Premises Server Authentication Settings

The first thing that you should do to prepare the FlexNet Manager Suite On Premises server for integration (even before connecting to the Flexera Service Gateway) is to attempt to browse to the FlexNet Manager Suite ComplianceAPIService documentation page to determine whether you are prompted to enter network credentials. This will test whether the application server's authentication settings are set properly.

To test the FlexNet Manager Suite server authentication settings:

1. On the FlexNet Manager Suite server machine, enter the following URL in a web browser:

http://<FNMPServer>/ManageSoftServices/ComplianceAPIService/ComplianceAPIService.asmx

such as:

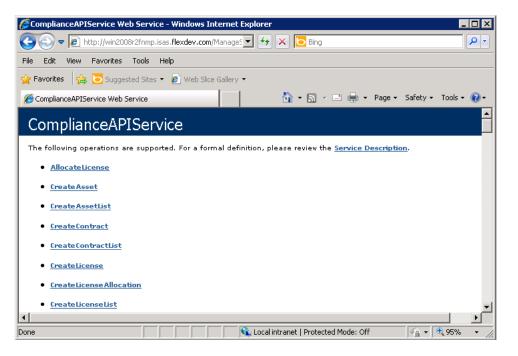
http://win2008r2fnmp/ManageSoftServices/ComplianceAPIService/ComplianceAPIService.asmx



Task

Tip • When identifying the FlexNet Manager Suite server in this URL, you can enter either the application server name or the server IP address.

The **ComplianceAPIService** page on the application server should open **without** prompting you to enter network credentials:



If you **are** prompted to enter network credentials, then Windows Authentication is not set up correctly on the FlexNet Manager Suite server and you will need to modify its authentication settings. The problem could be an issue with the group policy settings for network authentication. **Note** • If Windows Authentication is not enabled, App Portal and AdminStudio will be unable to communicate with FlexNet Manager Suite.

2. To modify the authentication settings, see Verify FlexNet Manager Suite On Premises Application Server Authentication Settings in IIS.

Connecting FlexNet Manager Suite On Premises to the Flexera Service Gateway



Note • FlexNet Manager Suite On Premises was formerly known as FlexNet Manager Platform.

FlexNet Manager Suite On Premises communicates with App Portal and AdminStudio via the Flexera Service Gateway component.

The procedure for connecting FlexNet Manager Suite On Premises to the Flexera Service Gateway is the same as the procedure for FlexNet Manager Suite Cloud. See Registering FlexNet Manager Suite Cloud with the Flexera Service Gateway.

Importing the Application Recognition Library (ARL)

FlexNet Manager Suite Cloud and FlexNet Manager Suite On Premises come with an Application Recognition Library, a SKU (stock keeping unit) Library, and several Product Use Rights Libraries (the latter depending on which options you have purchased for the product). The Application Recognition Library is the repository for the FlexeralD that is used to relate application records between FlexNet Manager Suite, AdminStudio, and App Portal.

These libraries are updated regularly by Flexera Software and normally downloaded automatically. At installation time, however, you need to download the libraries to create a baseline ready for product use.

Perform the following procedure as administrator (FNMS-Admin) with database rights.

To download and import the latest libraries:						
1.	On the processing server (or application server for a single-server implementation), open a Command Window and navigate to <i>installation-folder</i> \DotNet\bin\.					
2.	Run the Recognition data import scheduled task to update these libraries.					
	Note • On this server, the Recognition data import Windows scheduled task updates these libraries by default at 1 a. daily.					
\bigcirc						
¥						
¥ Tip	• To sign-up for notification of ARL updates, as well as FlexNet Manager Suite hot fix releases, visit:					
-	• To sign-up for notification of ARL updates, as well as FlexNet Manager Suite hot fix releases, visit: p://learn.flexerasoftware.com/SLO-FMS-Software-Content-Library-Updates					
-						

Troubleshooting FlexNet Manager Suite Communication Issues

If other products connected to the Flexera Service Gateway are having trouble communicating with FlexNet Manager Suite, perform the following troubleshooting tasks:

- Verify FlexNet Manager Suite On Premises Application Server Authentication Settings in IIS
- Check That ManageSoftWebServiceAppPool Service is Running
- Verify Domain Credentials Across Computers by Invoking GetTenants and GetFlexeralDForApplication API
- Resolving Active Directory "Double Hop" Issues Which Occur if FlexNet Manager Suite and SQL Server are on Separate Computers
- Steps to Take When FlexNet Manager Suite is Unable to Register With the Flexera Service Gateway

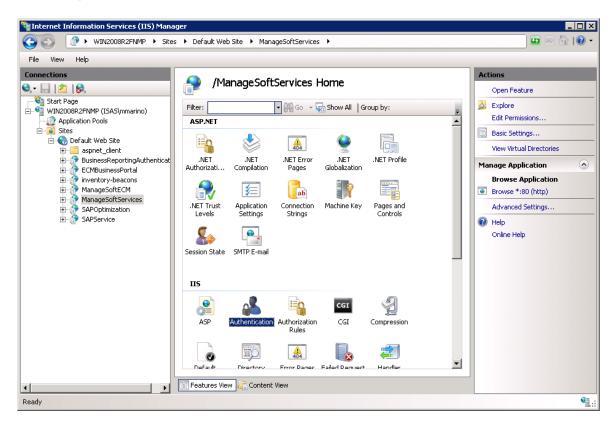
Verify FlexNet Manager Suite On Premises Application Server Authentication Settings in IIS

If you are having authentication issues when attempting to connect to FlexNet Manager Suite, perform the following steps on the FlexNet Manager Suite application server machine to verify the application server authentication settings in IIS.

Task

To configure FlexNet Manager Suite authentication in IIS:

- 1. Open Internet Information Services (IIS) Manager.
- 2. Select ManageSoftServices in the tree. The Features view opens.



3. Double-click Authentication. The Authentication view opens.

Group by: No Grouping 🔹					
Name 🔺	Status	Response Type			
Anonymous Authentication	Disabled				
ASP.NET Impersonation	Enabled	Enabled			
Basic Authentication	Disabled	HTTP 401 Challenge			
Digest Authentication	Disabled	HTTP 401 Challenge			
Forms Authentication	Disabled	HTTP 302 Login/Redirect			
Windows Authentication	Enabled	HTTP 401 Challenge			

- 4. Make sure that the following three options are set to **Enabled**:
 - ASP.NET Impersonation

Authentication

- Basic Authentication
- Windows Authentication

All other authentication methods should be set to **Disabled**.

Check That ManageSoftWebServiceAppPool Service is Running

To check that the ManageSoftWebServiceAppPool service is running, perform the following steps:

Task	То	To check the ManageSoftWebServiceAppPool service:							
	1.	Open Internet Information Services (IIS) Manager.							
	2.	Select Application Pools in the tree. The Application Pools view opens.							
	3.	3. In the Application Pools list, make sure that the ManageSoftWebServiceAppPool service is started and running under the NetworkService account. Application Pools This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or more applications, and provide isolation among different applications.							
		Filter:	Go 🔹 🙀	Show All Group	by: No Grouping	•			
		Name 🔺	Status	.NET Frame	Managed Pipeli	Identity	Applications		
		ASP.NET v4.0	Started	v4.0	Integrated	ApplicationPoolIden	0		
		ASP.NET v4.0 Classic	Started	v4.0	Classic	ApplicationPoolIden	0		
		🕼 ASP.NET v4.0 DefaultAppPool	Started	v4.0	Integrated	ApplicationPoolIden	1		
		🕼 Classic .NET AppPool	Started	v2.0	Classic	ApplicationPoolIden	0		
		DefaultAppPool	Started	v2.0	Integrated	ApplicationPoolIden	0		

Integrated

Integrated

Integrated

Integrated

InventoryBeaconsAppPool

SAPOptimizationAppPool

SAPServiceAppPool

ManageSoftWebServiceAppPool

Note • The NetworkService account has non-editable privileges configured by Microsoft that are sufficient for FlexNet Manager Suite.

NetworkService

NetworkService

NetworkService

NetworkService

1

4. If the service is not started, start it by clicking **Start** in the **Actions** menu.

Started

Started

Started

Started

v4.0

v4.0

v4.0

v4.0

5. On the Actions menu, click Advanced Settings... to open the Advanced Settings dialog box for this service, and make sure that Start Automatically is set to True.

Verify Domain Credentials Across Computers by Invoking GetTenants and GetFlexeraIDForApplication API

On the FlexNet Manager Suite server, once you are able to browse to the **ComplianceAPIService** without being prompted to log in (as described in Testing FlexNet Manager Suite On Premises Server Authentication Settings), try to invoke the GetTenants and GetFlexeraIDForApplication API. You should be able to invoke them without encountering any issues.

∑= Task	To invoke Get
TUSK	IO IIIVOKE GEL

To invoke GetTenants and GetFlexeralDForApplication APIs:

1. On the FlexNet Manager Suite server machine, enter the following URL in a web browser:

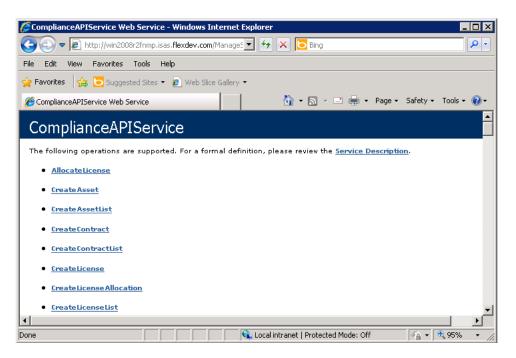
http://<FNMPServer>/ManageSoftServices/ComplianceAPIService/ComplianceAPIService.asmx
such as:

http://win2008r2fnmp/ManageSoftServices/ComplianceAPIService/ComplianceAPIService.asmx

 \bigcirc

Tip • When identifying the FlexNet Manager Suite server in this URL, you can enter either the application server name or the server IP address.

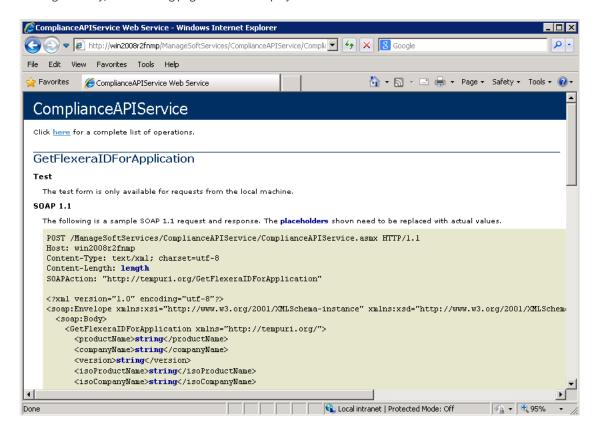
The **ComplianceAPIService** page on the FlexNet Manager Suite server should open **without** prompting you to enter network credentials:



2. Click on GetTenants in the list. If this API is working correctly, the following page should be displayed:

🕼 ComplianceAPIService Web Service - Windows Internet Explorer
🚱 🕤 🖉 http://win2008r2fnmp/ManageSoftServices/ComplianceAPIService/Complix 🔽 🚱 🗙 😫 Google
File Edit View Favorites Tools Help
🔆 Favorites 🏾 🍘 🗸 🖂 🌧 🖓 Page 🗸 Safety 🗸 Tools 🖲 👘
ComplianceAPIService
Click <u>here</u> for a complete list of operations.
GetTenants
Test
The test form is only available for requests from the local machine.
SOAP 1.1
The following is a sample SOAP 1.1 request and response. The placeholders shown need to be replaced with actual values.
POST /ManageSoftServices/ComplianceAPIService/ComplianceAPIService.asmx HTTP/1.1 Host: win2008r2fnmp Content-Type: text/xml; charset=utf-8 Content-Length: length SOAPAction: "http://tempuri.org/GetTenants"
<pre><?xml version="1.0" encoding="utf-8"?> </pre>

3. Return to the main **ComplianceAPIService** page and click on **GetFlexeraIDForApplication** in the list. If this API is working correctly, the following page should be displayed:



If an error message is displayed instead, FlexNet Manager Suite is not configured properly. One of the following could be causing this problem:

- **Prevented by Active Directory policy**—This type of error usually means that the System Administrator has changed the Active Directory policy so that it prevents the Flexera Software services from working.
- User does not have access to IIS—The user who is testing the connections may not have access to IIS if they are in the wrong security groups.

Test the FlexNet Manager Suite GetFlexeraIDForApplication API

To determine whether the FlexNet Manager Suite GetFlexeraIDForApplication API is working correctly (which means that a Flexera Identifier will be returned when AdminStudio searches FlexNet Manager Suite's Application Resource Library), invoke the GetFlexeraIDForApplication API on the FlexNet Manager Suite server.

Task	To test the GetFlexeraIDForApplication API:
	1. On the FlexNet Manager Suite server machine, enter the following URL in a web browser:

http://localhost/ManageSoftServices/ComplianceAPIService/ComplianceAPIService.asmx

6	7
7	7

Tip • When identifying the FlexNet Manager Suite server in this URL, enter LocaLhost.

The **ComplianceAPIService** page on the FlexNet Manager Suite server opens:

) () 🗢 (🚑 h	p:// localhost /ManageSoftServices/ComplianceAPIService/ComplianceAPIService.asn	nx	P 🛛 😽	
<u> </u>	vice Web ×			00 📈
Complia	nceAPIService			
ne following on	rations are supported. For a formal definition, please review the Servic	e Description		
	cateLicense	<u>ce bescription</u> .		
	ateAsset			
	ateAssetList			
	ateContract			
	ateContractList			
	ateLicense			
• <u>Cr</u>	ateLicenseAllocation			
• <u>Cr</u>	ateLicenseList			
• <u>Cr</u>	ateLicenseReservation			
• <u>Cr</u>	ateUser			
• <u>Cr</u>	ateUserList			
• <u>Cr</u>	ateVendor			
• <u>Cr</u>	ateVendorList			
• <u>De</u>	llocateLicense			
• <u>De</u>	eteAsset			

2. Click on GetFlexeralDForApplication in the list. The GetFlexeralDForApplication page is displayed:

Complia	anceAPIService Web Servic	e - Windows Internet Explorer	
		;SoftServices/ComplianceAPIService/ComplianceAPIService.asmx?op=GetFlexeraIDFor/ 🔎 💽 🚱 😚 🎧	太說
	anceAPIService Web 🗙		
Com		n tioo	
Corr	plianceAPISe	rvice	
Click <u>he</u>	re for a complete list of op	erations.	
		•	
GetF	lexeraIDForAppl	ication	
Test			
	st the operation using the H meter	ITTP POST protocol, click the 'Invoke' button. Value	
	uctName:		
com	panyName:		
versi	on:		
isoPr	oductName:		
isoCo	ompanyName:		
	ersion:		
	egID:		
	-		
	riginalARPProductName:		
ISOO	riginalARPCompanyName:		
isoO	riginalARPVersion:		
tena	ntUID:		
		Invoke	
SOAP 1	1.1		
The fo	ollowing is a sample SOAP	1.1 request and response. The placeholders shown need to be replaced with actual values.	
	/ManageSoftServices/Comp : localhost	lianceAPIService/ComplianceAPIService.asmx HTTP/1.1	
Cont	ent-Type: text/xml; chars ent-Length: length		
	Action: "http://tempuri.o l version="1.0" encoding=	rg/GetFlexeraIDForApplication"	
<soaj< td=""><td></td><td>uur=o-;/ p://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns</td><td>:soap=</td></soaj<>		uur=o-;/ p://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns	:soap=
	<getflexeraidforapplicati <productname>string<td></td><td></td></productname></getflexeraidforapplicati 		
	<companyname>string<version>string<td></td><td></td></version></companyname>		
<	<isoproductname>string<</isoproductname>	/isofroductName>	>

- 3. In the productName field, enter Acrobat, and in the companyName field, enter Adobe.
- 4. Click Invoke. The following Flexera Identifier should be returned:

<?xml version="1.0" encoding="UTF-8"?> <string xmlns="http://tempuri.org/">arl://MGS-APP-0000000083</string>

- If a Flexera Identifier is returned, FlexNet Manager Suite is configured properly.
- If no Flexera Identifier is returned, FlexNet Manager Suite is not configured properly. One of the following could be causing this problem:
 - **Prevented by Active Directory policy**—This type of error usually means that the System Administrator has changed the Active Directory policy so that it prevents the Flexera Software services from working.
 - User does not have access to IIS—The user who is testing the connections may not have access to IIS if they
 are in the wrong security groups.

Steps to Take When FlexNet Manager Suite is Unable to Register With the Flexera Service Gateway

In some instances, you may not be able to register FlexNet Manager Suite with the Flexera Service Gateway. The following message is displayed:

Unable to register with the Flexera Service Gateway. The following error was provided by the gateway: Exception occurred in adding service FlexNetManagerSuite. Message: com.ctc.wstx.exc.WstxEOFException: Unexpected EOF in prolog at [row,col {unknown-source}]: [1,0]

To resolve this issue, do one of the following:

- Windows Authentication enabled—First make sure that Windows Authentication is enabled and working on the FlexNet Manager Suite server.
- Check the GetFlexeralDforApplication web service—Check the GetFlexeraIDForApplication web service, as described in Verify Domain Credentials Across Computers by Invoking GetTenants and GetFlexeraIDForApplication API.

Resolving Active Directory "Double Hop" Issues Which Occur if FlexNet Manager Suite and SQL Server are on Separate Computers

Important • You must perform this task if FlexNet Manager Suite 9.2.3 or earlier and SQL Server are installed on separate machines. This task is not necessary when using FlexNet Manager Suite 2015 and later.

To enable Windows Authentication with FlexNet Manager Suite, the user's credentials need to authenticate in two places:

- First "hop"—The user accesses IIS and authenticates into FlexNet Manager Suite.
- Second "hop"—FlexNet Manager Suite then uses that user's credentials to connect to the FlexNet Manager Suite database on SQL Server.

For security reasons, IIS is not permitted to pass credentials to a secondary server. Therefore, if FlexNet Manager Suite and SQL Server are not installed on the same machine, IIS will be unable to perform the authentication, and an error will be generated.

If your enterprise's security protocols require you install FlexNet Manager Suite and SQL Server on separate computers, you will need to enable a trusted delegation on the FlexNet Manager Suite computer to resolve this issue.

Note • For more information, see How to use the System.DirectoryServices namespace in ASP.NET on the Microsoft Support site:

http://support.microsoft.com/default.aspx?scid=kb;en-us;329986

To enable a trusted delegation, perform the following steps on your FlexNet Manager Suite installation:



To enable a trusted delegation:

- 1. Disable Anonymous Authentication for the following sites in IIS:
 - ManageSoftServices
 - ECMBusinessPortal
 - Suite
 - SAPPortal
- 2. Ensure that only ASP.NET Impersonation and Windows Authentication are enabled for ManageSoftServices, ECMBusinessPortal and ManageSoftECM sites in IIS.
- **3.** Clear the selection of the **Enable Kernel mode authentication** option for Windows Authentication on ManageSoftServices, ECMBusinessPortal and ManageSoftECM:

Troub	leshooting	FlexNet	Manager	Suite	Communi	cation	lssue
-------	------------	---------	---------	-------	---------	--------	-------

Authentication		Alerts Advanced Settings	? >
Group by: No Grouping	-	Extended Protection:	
Name A Anonymous Authentication ASP.NET Impersonation Basic Authentication Forms Authentication Windows Authentication	Status Disabled Enabled Disabled Enabled Enabled	Off Image: Click here for more information online Click here for more information online Image: Click here for more information online By default, IIS enables kernel-mode authentication Image: Click here for more and prevent authentication problems with application pools configured to use a custom identity. As a best practice, do not disable this setting if Kerberos authentication is used in your environment and the application pool is configured to use a custom identity.	*
		Click here for more information online OK Cancel	

Note • You need to disable kernel-mode authentication because it only handles Kerberos authentication, but does not allow delegation. You cannot have both Kernel-mode authentication enabled and also support "double hop" authentication.

- 4. Create a new Active Directory service account for handling delegation access for FlexNet Manager Suite.
- In IIS, modify the ManageSoftWebServiceAppPool to use the newly created service account. 5.

Ξ	(General)	•			
_	NET Framework Version	v2.0			
	Enable 32-Bit Applications	False			
	Managed Pipeline Mode	Integrated			
	Name	DesktopDirector			
	Queue Length	1000			
	Start Automatically	True			
-	CPU				
	Limit	0			
	Limit Action	NoAction			
	Limit Interval (minutes)	5			
	Processor Affinity Enabled	False			
	Processor Affinity Mask	4294967295			
-	Process Model				
	Identity	bwong-dev\user1			
	Idle Time-out (minutes)	20			
	Load User Profile	False			
	Maximum Worker Processes	1			
	Ping Enabled	True			
	Ping Maximum Response Time (second	90			
	Ping Period (seconds)	30			
	Shutdown Time Limit (seconds)	90			
	Startun Time Limit (seconds)	90			
	lentity				
a		Configures the application pool to run ool Identity (recommended), Network or as a specific user identity.			
		OK Cancel			

Note • You can choose to re-use the FlexNet Manager Suite Service account instead of creating a new service account for the purpose of delegation.

6. Remove all existing Service Principal Names (SPNs) on <FNMP Admin Server> for IIS:

```
setspn -d http/<FNMP Admin Server> <FNMP Admin Server>
setspn -d http/<FNMP Admin Server>:80 <FNMP Admin Server>
setspn -d http/<FNMP Admin Server (Fully Qualified)> <FNMP Admin Server>
setspn -d http/<FNMP Admin Server (Fully Qualified)>:80 <FNMP Admin Server>
```

7. Run setspn against the new service account user to create a Service Principal Name for the IIS process:

```
setspn -u -s http/<FNMP Admin Server> <FNMP service account user>
setspn -u -s http/<FNMP Admin Server>:80 <FNMP service account user>
setspn -u -s http/<FNMP Admin Server (Fully Qualified)> <FNMP service account user>
setspn -u -s http/<FNMP Admin Server (Fully Qualified)>:80 <FNMP service account user>
```

Note • This will allow the FlexNet Manager Suite service account user to authenticate users accessing IIS.

 Ensure that the SQL Server service account has the necessary SPN created so it can authenticate users accessing the SQL server:

setspn -1 <SQL Server user service account>

It should list the following:

```
MSSQLSvc/<SQL Server Machine Name (Fully Qualified)>:1433
MSSQLSvc/<SQL Server Machine Name (Fully Qualified)>
....
```

9. Create an SPN for the flat name as well in case SQL Server has issues discovering the short hand name of the application server:

setspn -u -s MSSQLSvc/<SQL Server Machine Name>:1433 <SQL Server service user account>
setspn -u -s MSSQLSvc/<SQL Server Machine Name> <SQL Server service user account>

10. Ensure that the SQL Server Reporting Services service account has the necessary SPN created so it can authenticate users accessing reports in the FlexNet Manager Suite web portals:

```
setspn -u -a http/<SQL Server Machine Name> <SQL Server service user>
setspn -u -s http/<SQL Server Machine Name>:80 <SQL Server service user>
setspn -u -s http/<SQL Server Machine Name (Fully Qualified)> <SQL Server service user>
setspn -u -s http/<SQL Server Machine Name (Fully Qualified)>:80 <SQL Server service user>
```

- 11. Enable Kerberos authentication on the SQL Server Reporting Services reports. (By default, it is disabled.)
- 12. On the SQL Server machine, edit:

```
<SQL Server Install Dir>\MSRS10_50.MSSLSERVER\Reporting Services\ReportServer\
rsreportserver.config
```

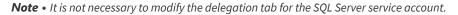
By default, it is installed at:

C:\Program Files\Microsoft SQL Server\MSRS10_50.MSSQLSERVER\Reporting Services\ReportServer

13. Add the RSWindowsNegotiate authentication type. For example, the <Authentication> subsection in the file should look something like this:

<Authentication> <AuthenticationTypes> <RSWindowsNegotiate/> <RSWindowsNTLM/> </AuthenticationTypes> <RSWindowsExtendedProtectionLevel>Off</RSWindowsExtendedProtectionLevel> <RSWindowsExtendedProtectionScenario>Proxy</RSWindowsExtendedProtectionScenario> <EnableAuthPersistence>true</EnableAuthPersistence> </Authentication>

- **14.** Allow delegation for the <FNMP service account user> so it can delegate the user authentication token from FlexNet Manager Suite to SQL Server and FlexNet Manager Suite to SQL Server Reporting Services.
 - a. First, add the SQL Server service to give delegation access to the <FNMP service account user>.
 - **b.** Then, add the SQL Server Reporting Services service to give delegation access to the <FNMP service account user>.



The end result should look something similar to the following:

User1 Properties			? ×			
Member Of Dial-in Remote Desktop Services General Address Account	Profile Personal		control COM+			
Delegation is a security-sens behalf of another user.	itive operation, which	allows services to act	on			
	O Do not trust this user for delegation					
 Trust this user for delega Trust this user for delega 						
 Indistrinis user for delega Use Kerberos only 	aion to specified servic	ces only				
C Use any authenticat	ion protocol					
Services to which this a	ccount can present de	legated credentials:	_			
	or Computer Po		e Na			
	PSQL.testdomain 80 PSQL)				
The second	PSQL.testdomain 14	133				
•		<u>}</u> _	▶			
Expanded	Add	d Remove				
ОК	Cancel	Apply	Help			

Figure 5-1: User Properties Dialog Box from Active Directory

Ξ

Note • If you are performing a proof-of-concept demonstration of the integrated solution in a **non-production** environment, and need a quicker way to avoid "double-hop" issues, you can use a temporary solution, as described in Temporary Solution for "Proof of Concept" Lab Scenario to Address Double-Hop Issue with FlexNet Manager Suite Server.

Temporary Solution for "Proof of Concept" Lab Scenario to Address Double-Hop Issue with FlexNet Manager Suite Server

If someone is performing a proof-of-concept demonstration of the integrated solution, and want to avoid performing the steps in Resolving Active Directory "Double Hop" Issues Which Occur if FlexNet Manager Suite and SQL Server are on Separate Computers, you can use this alternate solution.



Caution • This solution should not be implemented in a production environment.



To temporarily address a double-hop issue with FlexNet Manager Suite:

- 1. Enable Anonymous authentication on the ManageSoftServices application.
- 2. Disable Windows Authentication on the ManageSoftServices application.
- 3. Change the App Pool account to a domain account that has full access to FlexNet Manager Suite and the FlexNet Manager Suite database.

Viewing an Application's Flexera ID in FlexNet Manager Suite

To view an application's Flexera ID, perform the following steps:

Task

To view an application's Flexera ID:

1. In FlexNet Manager Suite, open the License Compliance menu and select All Applications (which is under the Applications heading). The All Applications page opens.

Add filter	hich can be recognised, re	gardiess of wr	nether they	are instaned of h	01.	
	Create	an applicatio	n Cre			s 🔻 Open
64,519 results returned 20 🔻 rows per page 👲 🔻				+	Q Search	
Name	A Publisher	Installed	Licensed	Classification	Status	Source
DB/Explain for DB2 5	IBM	1	No	Commercial	Unmanaged	Flexera (Extended)
"Intro to Design Patterns" 1.0	Microsoft	0	No	Commercial	Inactive	Flexera
"mora win" plug in 1.0	LabelGate	0	No	Commercial	Unmanaged	Flexera
"Roslyn" CTP 1	Microsoft	0	No	Freeware	Unmanaged	Flexera
#1 CD Ripper 1.7 1	Maskbit Software	1,955	No	Shareware	Authorized	Flexera (Extended)
#1 DVD Ripper 4.3	Apollo Multimedia	0	No	Commercial	Inactive	Flexera
#1 DVD Ripper 6.0	Apollo Multimedia	0	No	Commercial	Inactive	Flexera
#1Backup 2.0	Atypie Software	0	No	Shareware	Unmanaged	Flexera
.NET 1.0	SmartQuant	0	No	Commercial	Ignored	Flexera
.NET 2.x Runtime 2.0	Teradata	0	No	Component	Unmanaged	Flexera
.NET and J2EE Interoperability Toolkit 1	Microsoft	0	No	Freeware	Inactive	Flexera
.NET and SAP 2.0	Microsoft	0	No	Component	Unmanaged	Flexera

By default, the Flexera ID column is not displayed.

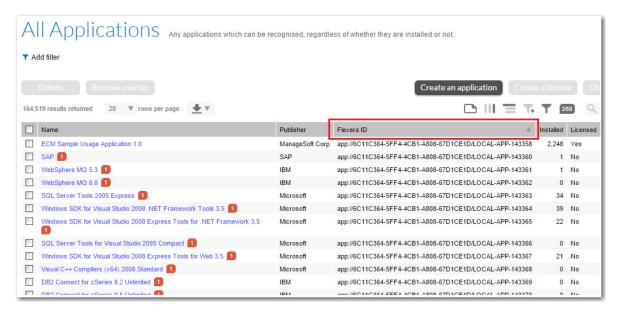
2. Click the Choose columns to display icon above the grid. The Choose columns list opens.

mana	aged Flexera
man	Choose columns 🛛 🗙
thori	Category
ictive	Edition
ictive	Flexera ID
man	
man	Is locked
ictive	Product
man	Suite 🚽
_	

3. Click on Flexera ID in the list and drag it to the heading row of the grid in the location where you want it to appear.

Create an	application Crea	
		T 268
Publisher Flexera ID	Installed Aicensed	Classification
ManageSoft Corp	公 2,248 Yes	None
SAP	1 No	Commercial
IBM	1 No	Commercial
IBM	Choose colum	ns 🛛 🗙 ial
Microsoft	Category	^
Microsoft		
Microsoft	Edition	
Microsoft	Flexera ID	🔺 🔤 nt
Microsoft	Is locked	
Microsoft	Product	nt
IBM		ial
IBM	Suite	🔻 ial

When you let go of the column name, the Flexera ID column will be listed in the grid.



Upgrading FlexNet Manager Suite's Compliance Console

For instructions on how to upgrade the FlexNet Manager Suite's Compliance Console to a new version, see the Upgrading Your Compliance Console topic in the FlexNet Manager Suite Installation Guide.

6

Configuring App Portal

When App Portal is integrated with FlexNet Manager Suite / FlexNet Manager Platform and AdminStudio licenses for App Portal catalog items can be managed automatically. This section explains how to connect App Portal to the Flexera Service Gateway so that it can communicate with FlexNet Manager Suite / FlexNet Manager Platform and AdminStudio, and how to troubleshoot any issues that you might encounter.

- Testing App Portal Server Authentication Settings
- Connecting App Portal to the Flexera Service Gateway
- Testing App Portal's Connection to the Flexera Service Gateway
- Performing App Portal Troubleshooting
- Upgrading the App Portal Web Site

Testing App Portal Server Authentication Settings

The first thing that you should do to prepare the App Portal server for integration (even before connecting to the Flexera Service Gateway) is to attempt to browse to the App Portal Integration API Service documentation page to determine whether you are prompted to enter network credentials. This will test whether authentication settings of the App Portal server are set properly.



Task

To test the App Portal server authentication settings:

1. On the App Portal server machine, enter the following URL in a web browser:

http://<AppPortalServer>/ESD/WS/Integration.asmx

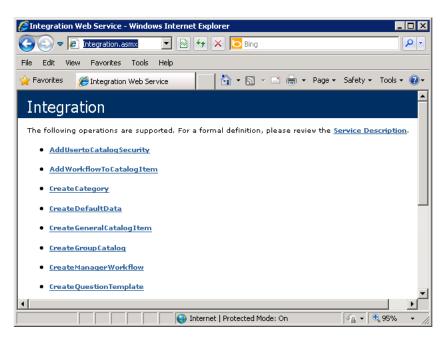
such as:

http://Win2008R2AppPortal/ESD/WS/Integration.asmx



Tip • When identifying the App Portal server in this URL, you can enter either the application server name or the server IP address.

The **Integration** documentation page on the App Portal server should open **without** prompting you to enter network credentials:



If you **are** prompted to enter network credentials, then Windows Authentication is not set up correctly on the App Portal server and you will need to modify its authentication settings. The problem could be an issue with the group policy settings for network authentication.

Note • If Windows Authentication is not enabled, FlexNet Manager Suite / FlexNet Manager Platform and AdminStudio will be unable to communicate with App Portal.

2. To modify the authentication settings, see Verify the App Portal Server Authentication Settings.

Connecting App Portal to the Flexera Service Gateway

App Portal communicates with FlexNet Manager Suite / FlexNet Manager Platform via the Flexera Service Gateway component. To connect App Portal to the Flexera Service Gateway, perform the following steps.

Task

Ê

To connect to the Flexera Service Gateway:

- 1. In App Portal, open the Admin tab.
- 2. Select Site Management > Settings > Flexera Integration. The Flexera Integration view opens.
- 3. In the Flexera Service Gateway Server Name field, enter the name of your Flexera Service Gateway server.

Flexera Integration	
inable App Portal API	(http://server/esd/api.asmx) You should modify NTFS Permissions on the api.asmx file to prevent unauthor access prior to enabling the API.
Enable Advanced License Check with FlexNet Manager Suite	
Flexera Service Gateway	
Flexera Service Gateway Server Name	Win10ASDemo.isas.flexdev.com Following services are currently registered with Flexera Service Gateway • App Portal [isasappportal.isas.flexdev.com] • Workflow Manager [adminstudiopat.isas.flexdev.com] • FlexNet Manager Suite Cloud [www.flexnetmanager.com]
FNMS Tenant UID (MSP Only)	
FlexNet Manager Suite Cloud Setting	s
FlexNet Manager Suite Cloud Access Token	
FlexNet Manager Suite On-Premises	Settings
f the App Portal system account does not have	e access to FlexNet Manager Suite, provide appropriate credentials.
Username (DOMAIN\Username)	
Password FlexNet Manager Suite Database Con	nection Settings
Password FlexNet Manager Suite Database Con	nection Settings I system account needs to have read access to the FlexNet Manager Suite database.
Password FlexNet Manager Suite Database Con	

4. Click Save.

Testing App Portal's Connection to the Flexera Service Gateway

After you have performed the steps in Connecting App Portal to the Flexera Service Gateway, if FlexNet Manager Suite / FlexNet Manager Platform is also connected to the Flexera Service Gateway, you should be able to user App Portal to perform the following steps.

Task	To test App Portal's connection to the Flexera Service Gateway:

- 1. Open App Portal.
- 2. Under Site Management on the Admin tab, select Catalog Management.
- 3. Under Current Catalog Items, select View All Items. Existing catalog items are listed.
- 4. Double-click on an existing catalog item. The Catalog Item Properties dialog box for that application opens.
- 5. Open the FlexNet Manager Suite tab.
- 6. Enter application information in the Product Name, Version, Edition, and Publisher fields, and then click Search.

Photosho General	Deployment	Manager Suite Set FlexNet Manager	-	Approval	Approval Process	Security Groups	Actions Notificat	ions Permissions
	License Reclan		tion Targets	Approval	Approval Process	Security Groups	Actions Notificat	ions Permissions
Mapping		AIEIT AC	tion rargets					
🅑 Save	😢 Clear							
lexNet Mar	nager Suite Mappin	g						
earch								
o change th	e current mapping,	use the following sea	rch field to locate ar	nd select a Flexera	a ID, and then click Save.			
Product Nam								
roudet Hun								
/ersion								
dition								
Publisher								
Search								
Search								

7. From the list of search results, select the appropriate entry. The selected item will be highlighted.

						- ·
Testing App	Portal's	Connection	to the F	lexera	Service	Gateway

🚏 Photoshop CS6 - FlexNet Manager Suite Settings			е – в ×
General Deployment HexNet Manager Suite Visibility	Approval Approval Process	Security Groups Actions	Notifications Permissions
Mapping License Reclamation Alert Action Targets			
Save 😮 Clear			
FlexNet Manager Suite Mapping			
Search			
To change the current mapping, use the following search field to locate and	select a Elevera ID, and then click Save		
	select a nexera to, and then click save.		
Product Name			
Photoshop			
Version			
Edition			
Publisher			
Search			
Photoshop Limited 4.0 Adobe Systems	<u></u>		
Photoshop 4.0 Adobe Systems			
Photoshop Limited 5.0 Adobe Systems Photoshop 5.0 Adobe Systems			
Photoshop 5.5 Adobe Systems Photoshop 5.5 Adobe Systems			
Photoshop Tryout 6.0 Adobe Systems			
Photoshop 6.0 Adobe Systems			
Photoshop 7.0 Adobe Systems			
Photoshop 7.1 Adobe Systems			
Photoshop 7.2 Adobe Systems	•		

8. Click **Save**. The catalog item is now mapped to a software entry in FlexNet Manager Suite, and the product information is now listed at the top of the dialog box.

Photoshop CS	6 - FlexNet	Manager	Suite Settings			
General De	ployment	FlexNet	Manager Suite	Visibility	Approval	Appro
Mapping Li	cense Recla	mation	Alert Action Ta	rgets		
🕗 Save 🔞	Clear					
Successfully u	pdated sett	ings.				
lexNet Manager	Suite Mappi	ing				
Check for licen	se position d	luring check	out			
elect the licensing	availability s	scope:				
Global Only				*		
This catalog item is	mapped to	the following	g Flexera ID:			
Flexera ID	arl://MGS-	APP-000000	05047			
Product Name	Photoshop					
Version	6.0					
Edition						
Publisher						

If the application is successfully mapped, it indicates that App Portal's connection to FlexNet Manager Suite via the Flexera Service Gateway is configured properly.

9. If the application is not successfully mapped, see Performing App Portal Troubleshooting.

Performing App Portal Troubleshooting

Tips for performing App Portal troubleshooting are presented in the following sections:

- Installation Testing and Troubleshooting
- Troubleshooting App Portal Integration Issues

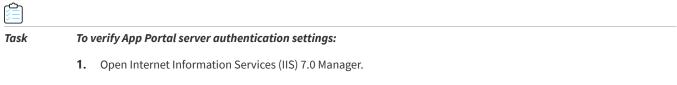
Installation Testing and Troubleshooting

To test your App Portal installation to ensure that it can communicate with other products via the Flexera Service Gateway, perform the following configuration tasks:

- Verify the App Portal Server Authentication Settings
- Check the SelfService Service
- Check the ESDService Service
- Test FlexNet Manager Suite / FlexNet Manager Platform Server Authentication Settings
- Invoke GetCategories API
- Error After Installation on X64 Server with WSUS Role

Verify the App Portal Server Authentication Settings

To verify the App Portal server authentication settings, perform the following steps.



2. Select ESD in the tree. The Features view opens.

File View Help									
Connections	() (F)	D 11						Actions	
💐 🔒 🖄 🕼	/ES	D Home						Open Feature	
	Filter:		• 🔐 Go 🔹 🖣	Show All G	iroup by:		-	🔊 Explore	
Application Pools	ASP.NET						i I	Edit Permissions	
	:=0							Basic Settings	
			404	-				View Virtual Directories	
Connections Connections	.NET Authorizati	.NET Compilation	.NET Error Pages	.NET Globalization	.NET Profile	.NET Trust Levels		Manage Application	•
	*	ab	7		&	•		Browse Application Browse *:80 (http)	
	Application Settings	Connection Strings	Machine Key	Pages and Controls	Session State	SMTP E-mail		Advanced Settings	
	Decangs	burings		Concrois				🕢 Help	
	IIS							Online Help	
	ASP	Authentication		CGI		Default			
		3	Rules		·	Document			
		404		1		e			
	Directory Browsing	Error Pages	Failed Request Tracing Rules	Handler Mappings	HTTP Redirect	HTTP Respo			
	💴	n		. 			-		
	Features Vie	w / Content	t View						

3. Double-click Authentication. The Authentication view opens.

nymous Authentication Disabled .NET Impersonation Disabled ic Authentication Disabled HTTP 401 Challenge	roup by: No Grouping 🔹		
INET Impersonation Disabled ic Authentication Disabled HTTP 401 Challenge	ame 🔺	Status	Response Type
ic Authentication Disabled HTTP 401 Challenge	nonymous Authentication	Disabled	
	5P.NET Impersonation	Disabled	
st Authentication Disabled HTTP 401 Challenge	asic Authentication	Disabled	HTTP 401 Challenge
	gest Authentication	Disabled	HTTP 401 Challenge
ns Authentication Disabled HTTP 302 Login/Redire	orms Authentication	Disabled	HTTP 302 Login/Redirect
dows Authentication Enabled HTTP 401 Challenge	indows Authentication	Enabled	HTTP 401 Challenge

- 4. Make sure that Windows Authentication is set to Enabled, and that all other authentication methods are set to Disabled.
- 5. If you want to grant access to this site based on an IP address or domain name, go back to the IIS 7 Features view and double-click on IP Address and Domain Restrictions. The IP Address and Domain Restrictions view opens.

🙆 тра		main Restrictior		Ac	tions
	acress and Do	main Resulction	15		Add Allow Entry
		ss to Web content based	on IP addresses or domain names. Set the		Add Deny Entry
restrictions in or	der of priority.				Edit Feature Settings
Group by: No	Grouping 🔹				Revert To Parent
Mode 🔺	Requestor	Entry Type			View Ordered List
				2	Help
					Online Help

6. Click Add Allow Entry. The Add Allow Restriction Rule dialog box opens.

Add /	Allow Restriction Rule	? ×
All	ow access for the following IP address or domain name:	
G	Specific IP address:	
0	IP address range:	
	Mask or Prefix:	
	ОК	ancel

- 7. Enter the IP addresses that you want to be able to access the App Portal Site.
- 8. Click **OK**.

Check the SelfService Service

To check that the SelfService application pool service is running, perform the following steps:

Task	To check the SelfService application pool service:
	1. Open Internet Information Services (IIS) 7.0 Manager.

- 2. Select Application Pools in the tree. The Application Pools view opens.
- **3.** In the **Application Pools** list, make sure that the SelfService service is started and running under the domain account that was specified during the App Portal installation.



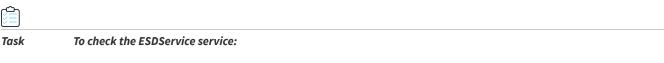
This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, one or more applications, and provide isolation among different applications.

Filter:	Go 🔻 🕁 S	ihow All Group	by: No Grouping	*	
Name 🔺	Status	.NET Frame	Managed Pipeli	Identity	Applications
ASP.NET v4.0	Started	v4.0	Integrated	ApplicationPoolIden	0
ASP.NET v4.0 Classic	Started	v4.0	Classic	ApplicationPoolIden	0
🔯 ASP.NET v4.0 DefaultAppPool	Started	v4.0	Integrated	ApplicationPoolIden	1
Classic .NET AppPool	Started	v4.0	Classic	ApplicationPoolIden	0
DefaultAppPool	Started	v4.0	Integrated	ApplicationPoolIden	0
SelfService	Started	v4.0	Integrated	isas\mmarino	1

- 4. If the service is not started, start it by clicking Start in the Actions menu.
- 5. On the Actions menu, click Advanced Settings... to open the Advanced Settings dialog box for this service, and make sure that the Start Automatically property is set to True.

Check the ESDService Service

To check that App Portal's ESDService service is running, perform the following steps:



- 1. On the App Portal server machine, open the Microsoft Management Console Services dialog box.
- 2. Locate ESDService in the list and make sure that the Status is set to Started and that the Log On As column is set to the domain account that was specified during the App Portal installation.

🖏 Services						-	
File Action View	Help						
	à 🗟 🛛 🔐 📷 🕨 🔳 🕕 🕨						
🤹 Services (Local)	🔕 Services (Local)						
	ESDService	Name 🔺	Description	Status	Startup Type	Log On As	
	<u>Stop</u> the service <u>Restart</u> the service	Diagnostic Policy Se Diagnostic Service Diagnostic System Disk Defragmenter Distributed Link Tra Distributed Link Tras Distributed Transac DNS Client Encrypting File Syst FSDService	The Diagno The Diagno Provides Di Maintains li Coordinate The DNS Cl	Started Started	Automatic (D Manual Manual Automatic Automatic (D Automatic Manual Automatic	Local Service Local Service Local System Local System Local System Network S Network S Local System isas\mmarino	
		Extensible Authenti Extensible Authenti Function Discovery Group Policy Client Health Key and Cer Human Interface D	The FDPH Publishes t The servic Provides X	Started	Manual Manual Manual Automatic Manual Manual	Local System Local Service Local Service Local System Local System Local System	•
I	Extended Standard						

- 3. If the service is not started, start it by clicking **Start** in the **Actions** menu.
- 4. On the Actions menu, click Advanced Settings... to open the Advanced Settings dialog box for this service, and make sure that the Start Automatically property is set to True.

Test FlexNet Manager Suite / FlexNet Manager Platform Server Authentication Settings

To test the FlexNet Manager Suite / FlexNet Manager Platform server authentication settings, you need to browse to the FlexNet Manager Suite / FlexNet Manager Platform ComplianceAPIService documentation page to determine whether you are prompted to enter network credentials. This will test whether the authentication settings of the FlexNet Manager Suite / FlexNet Manager Platform server are set properly.

Task	To test the FlexNet Manager Suite / FlexNet Manager Platform server authentication settings:		
	1. On the App Portal server machine, enter the following URL in a web browser:		

http://<FNMPServer>/ManageSoftServices/ComplianceAPIService/ComplianceAPIService.asmx

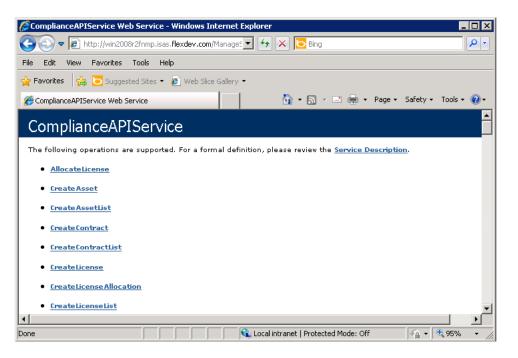
such as:

http://win2008r2fnmp/ManageSoftServices/ComplianceAPIService/ComplianceAPIService.asmx



Tip • When identifying the FlexNet Manager Suite / FlexNet Manager Platform server in this URL, you can enter either the application server name or the server IP address.

The **ComplianceAPIService** page on the FlexNet Manager Suite / FlexNet Manager Platform server should open **without** prompting you to enter network credentials:



If you **are** prompted to enter network credentials, then Windows Authentication is not set up correctly on the FlexNet Manager Suite / FlexNet Manager Platform server and you will need to modify its authentication settings. **Note** • If Windows Authentication is not enabled on the FlexNet Manager Platform server, App Portal will be unable to communicate with FlexNet Manager Suite / FlexNet Manager Platform.

2. To modify the FlexNet Manager Suite/ FlexNet Manager Platform server authentication settings, see Verify FlexNet Manager Suite On Premises Application Server Authentication Settings in IIS.

Invoke GetCategories API

On the App Portal server, once you are able to browse to the ComplianceAPIService without being prompted to log in (as described in Testing App Portal Server Authentication Settings), try to invoke the GetCategories API. You should be able to invoke it without encountering any issues.

Task

To invoke GetCategories API:

1. On the App Portal server machine, enter the following URL in a web browser:

http://<AppPortalServer>/ESD/WS/Integration.asmx

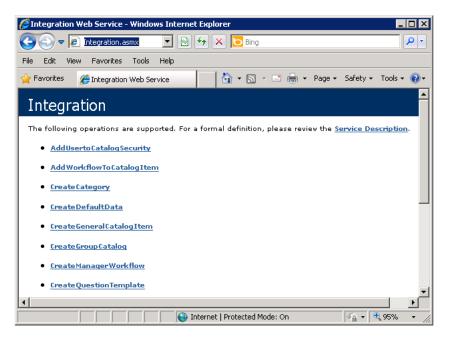
such as:

http://Win2008R2AppPortal/ESD/WS/Integration.asmx

 \bigcirc

Tip • When identifying the App Portal server in this URL, you can enter either the application server name or the server IP address.

The **Integration** documentation page on the App Portal server should open **without** prompting you to enter network credentials:



2. Click on GetCategories in the list. If this API is working correctly, the following page should be displayed:

🖉 Integration Web Service - Windows Internet Explorer 📃 🗆 🗙
🚱 🕞 🗢 🔊 http://win2008r2appportal/ESD/WS/Integration.asmx?op=GetCategories 🔽 🍫 🗙 🔕 Google
File Edit View Favorites Tools Help
🖕 Favorites 🏾 🎉 🖛 🔄 🚽 Bage + Safety + Tools + 🔞 +
Integration
Click here for a complete list of operations.
GetCategories
Test
To test the operation using the HTTP POST protocol, click the 'Invoke' button.
Invoke
SOAP 1.1
The following is a sample SOAP 1.1 request and response. The placeholders shown need to be replaced with actual values.
<pre>POST /ESD/WS/Integration.asmx HTTP/1.1 Host: win2008r2appportal Content-Type: text/xml; charset=utf-8 Content-Length: length SOAPAction: "http://selfservice.local/ESD/WS/GetCategories"</pre>
<pre><?xml version="1.0" encoding="utf-8"?> </pre>

If an error message is displayed instead, App Portal is not configured properly. One of the following could be causing this problem:

- **Prevented by Active Directory policy**—This type of error usually means that the System Administrator has changed the Active Directory policy so that it prevents the Flexera Software services from working.
- User does not have access to IIS—The user who is testing the connection may not have access to IIS if they are in the wrong security groups.

Error After Installation on X64 Server with WSUS Role

The App Portal website fails after installation on an X64 Server with WSUS role and generates the following error message:

HTTP 500.19 - Internal Server Error: The requested page cannot be accessed because the related configuration data for the page is invalid

To resolve this error, run the following command:

%windir%\system32\inetsrv\appcmd.exe set config -section:system.webServer/httpCompression /[name='xpress']



Note • You are only required to run this command one time, not each time App Portal is launched.



Note • The resolution to this error is documented in the following KB article:

Q207028: ERRDOC: WSUS and X64 - HTTP Error 500.19 - Internal Server Error

Troubleshooting App Portal Integration Issues

The following topics may assist you when troubleshooting App Portal integration issues:

- App Portal Catalog Item Not Automatically Created When AdminStudio Publishes an Application
- Preventing App Portal From Possibly Displaying False "Install Failed" Status for Application Deployment on SCCM 2012

App Portal Catalog Item Not Automatically Created When AdminStudio Publishes an Application

There could be several reasons why an App Portal catalog item is not automatically created when AdminStudio publishes an application to System Center Configuration Manager or Symantec Altiris Management Suite.

- AdminStudio 2013 R2 App Portal Settings Not Specified
- AdminStudio 2013: App Portal Default Category Not Specified
- Symantec Endpoint Protection Blocking Notification of App Portal

AdminStudio 2013 R2 App Portal Settings Not Specified

If you are using AdminStudio 2013 R2 or later, an App Portal catalog item is automatically created when AdminStudio publishes an application *only if* the following App Portal settings on the **App Portal Information** tab of the **Application View** in Application Manager have been set:

- The **Categories** property must be specified.
- The Notify Flexera Software App Portal on publish of current Application option on the Categories dialog box must be selected.

For more information, see Enabling Automatic Creation of App Portal Catalog Item in the AdminStudio 2014 Help Library.

AdminStudio 2013: App Portal Default Category Not Specified

If both AdminStudio (11.5 SP2 or 2013) and App Portal are connected via the Flexera Service Gateway, when you publish an application from AdminStudio to System Center 2012 Configuration Manager, a catalog item for that application should automatically be created in App Portal (in the default catalog category). Both the App Portal catalog item and the AdminStudio application will be identified by the same Flexera Identifier.

If a catalog item fails to be created, it may be because App Portal no longer has a **Default Category** specified. This can occur if the existing default category is deleted in App Portal. If the existing default category is deleted, the **Default Category** field on the **Settings > Web Site > General** tab is set to -Select-:

Default Workflow	Default Workflow	•
Default Workflow Group	Default Workflow Group	•
Default Category	- Select -	•

Figure 6-1: Default Category Field on Web Site > General Tab

In order for AdminStudio to automatically create an App Portal catalog item during publication, App Portal's default category must be set to a valid category. To attempt to resolve this issue, select an existing category from the **Default Category** list.

Note • Starting with AdminStudio 2013 R2, you can choose whether or not to automatically create a catalog item for an application when you publish it to System Center 2012 Configuration Manager or Symantec Altiris Management Server. You can also specify the destination App Portal category for the new catalog item. These settings are made on the **App Portal Information** tab of the Application Manager **Application View**. For more information, see:

- Enabling Automatic Creation of App Portal Catalog Item
- Specifying Catalog Item Categories

Symantec Endpoint Protection Blocking Notification of App Portal

In some instances, an App Portal catalog item is not created when AdminStudio publishes a package to System Center Configuration Manager.

Cause

This could be because Symantec Endpoint Protection blocked the notification of App Portal. If this is the case, the following error messages would be generated:

17:26:47 ERROR: AdminStudio.ESB.Integration.IntegrationService.LogException - NotifyAppPortalForGroup : The ConnectionString property has not been initialized.

17:26:47 ERROR: AdminStudio.ESB.Integration.IntegrationService.LogException - NotifyAppPortalForGroup : at System.Data.SqlClient.SqlConnection.PermissionDemand()

An anti-virus program (do not know which one yet) caused running tests in Test Center to fail. It prevented extraction of CAB files from MSI files thus stopping the correct execution of tests

Resolution

To resolve this issue, try to disable SEP (Symantec Endpoint Protection).

Preventing App Portal From Possibly Displaying False "Install Failed" Status for Application Deployment on SCCM 2012

When deploying an application from App Portal to System Center 2012 Configuration Manager, in some instances it is possible that App Portal will display an **Install Failed** status message in the **Status** column on the **My Requests** tab when, in fact, the deployment was successful.

This issue arises because System Center 2012 Configuration Manager returns different values to indicate failure for packages vs. applications, and App Portal is incorrectly interpreting the value returned from System Center 2012 Configuration Manager when an application is deployed as if a package was deployed.

If you have specified that you want System Center 2012 Configuration Manager to return the failure status of **Rejected** for package deployments, App Portal will incorrectly apply the "package" return value to "applications" and display an **Install Failed** status.

To resolve this issue, perform the following steps:

Task

To prevent false "Install Failed" status for applications:

- 1. Perform one of the following steps:
 - App Portal 2013 R2—On the Admin tab, select Settings > Deployment > SCCM 2012.
 - App Portal 7.3.1 or 7.5.x—On the Admin tab, select Settings > SCCM.

2. Locate the SCCM Status ID Mapping area.

SCCM Status ID Mapping

Success Status ID's	Select Status IDs	•
Failure Status ID's	Select Status IDs	-
Program Collection Cleanup Status ID's	Select Status IDs	•
Task Sequence Collection Cleanup Status ID's	Select Status IDs	•
Enable Rerun Advertisement for Status ID's	Select Status IDs	-

Important • The selections you make in the *Success Status ID's* and *Failure Status ID's* lists should only apply when deploying packages; they should be ignored when deploying applications.

- 3. From the Failure Status ID's list, clear the selection of Rejected.
- 4. To confirm that everything is set correctly, run the SQL below in the App Portal database and make sure that you do not see the value 2 in the comma-separated list of return values:

select * from WD_AppSettings where KeyName = 'FailureStatusIDs'

Upgrading the App Portal Web Site

To upgrade an existing installation of App Portal to Enterprise Product Integration Enterprise Product Integration, first review the About Upgrading section and then perform the upgrade.

- About Upgrading
- Performing the Upgrade

Important • If you are upgrading from a previous release of App Portal and you are using Symantec Altiris as your deployment technology, you cannot use the App Portal Upgrader to perform an upgrade. Instead, you need to perform a complete installation and point to your existing Altiris database.

About Upgrading

When upgrading an existing version of App Portal to App Portal Enterprise Product Integration, it is very important that you review the following information **before** you begin the upgrade.

- Supported Upgrade Versions
- Planning Your Upgrade

Supported Upgrade Versions

You can only upgrade to App Portal Enterprise Product Integration from the following previous versions:

- App Portal 2015 R2
- App Portal 2015
- App Portal 2014
- App Portal 2013 R2

To upgrade from one of these supported versions to App Portal Enterprise Product Integration, use the **App Portal Enterprise Product Integration Upgrader**, which can be downloaded from the Flexera Software Product and License Center, as described in Performing the Upgrade.

Important • If you want to upgrade an installation of App Portal 2013 or earlier to App Portal Enterprise Product Integration, contact a member of the Flexera Software Global Consulting Services team for assistance.

Planning Your Upgrade

When performing your upgrade to App Portal Enterprise Product Integration, it is recommended that you include the following steps in your upgrade process:

- Step 1: Review the Release Notes—Thoroughly review the Enterprise Product Integration Release Notes.
- Step 2: Upgrade and test in a lab environment—Before rolling out the App Portal upgrade in production, first upgrade App Portal in a lab environment using a clone or subset of your production data and test it thoroughly to make sure it still operates as per your requirements.
- Step 3: Production rollout—When you are ready to roll out the App Portal upgrade to your production environment, it is recommended that you include the following steps:

- a. Backup your existing App Portal database.
- **b.** Take a snapshot of the App Portal server, if possible.
- c. Provide downtime notice to your end users.
- d. Schedule your service window to allow for adequate testing post-production upgrade.
- e. Test your recovery model.

Performing the Upgrade

The instructions for upgrading App Portal vary depending upon the version of App Portal you are upgrading to:

- App Portal 2017 and later—For instructions on how to upgrade to App Portal 2017 and later, see Using the App Portal Installer to Perform an Upgrade.
- App Portal 2016 SP2 and earlier—For instructions on how to upgrade to App Portal 2016 and earlier, see Running the App Portal Upgrader.

7

Configuring AdminStudio

AdminStudio 11.5 SP2 or later can be integrated with App Portal and FlexNet Manager Suite / FlexNet Manager Server via the Flexera Service Gateway. When AdminStudio is integrated, the following occurs:

- AdminStudio obtains the Flexera Identifier from FlexNet Manager Suite / FlexNet Manager Server—When an application is imported into the Application Catalog, AdminStudio will automatically query the FlexNet Manager Suite / FlexNet Manager Server ARL and obtain the application's Flexera ID.
- AdminStudio creates catalog item in App Portal—When an application is published from AdminStudio to System Center Configuration Manager (2012 or Current Branch), a catalog item for that application will automatically be created in App Portal.

The following sections explain how to configure AdminStudio:

- Connecting AdminStudio to the Flexera Service Gateway
- Testing AdminStudio's Connection to the Flexera Service Gateway
- Configuring Authentication in Internet Explorer
- Upgrading AdminStudio

-

Task

Connecting AdminStudio to the Flexera Service Gateway

To enable AdminStudio to communicate with App Portal and FlexNet Manager Suite / FlexNet Manager Server via the Flexera Service Gateway, perform the following steps:

,	To enter Flexera Service Gateway connection settings:
	To enter riexera service dateway connection settings.

- 1. Open Application Manager.
- 2. On the Application Manager tab menu, select Options. The Options dialog box opens.
- 3. Select Flexera Service Gateway (FSG). The Flexera Service Gateway (FSG) tab opens.

Options				
 General options General 		y is used as a channel among y connection information to		
 ☑ Import Options Test Center Windows Installer Validation ACE Tests Mobile Tests Plugin Options Server Options Distribution System Microsoft ACT Flexera Service Gateway (FSG) 	Gateway Host Name Access Token FNMS URL Synchronize Flexera App P		jer.com/Suite Advanced FlexNet Manager	Test
AdminStudio services via FSG				^
		ОК	Cancel	Help

Important • Make sure that you select the *Flexera Service Gateway (FSG)* tab, not the *AdminStudio services via FSG* subtab.

4. Enter the following information:

Field	Description
Gateway Host Name	Enter the name or URL of your Flexera Service Gateway server.
	• Port number —If your System Administrator has installed Flexera Service Gateway using a different port than the default port, enter the appropriate port number at the end of the URL, preceded by a colon, such as:
	172.300.40.501:8484
	• DNS name vs. IP address —You can use a DNS name or an IP address. You should specify a DNS name if all clients are on the same domain and can resolve it; otherwise, use an IP address.
	• HTTPS—You should always use https.
	Note • The Flexera Service Gateway installer is downloaded from the Flexera Software Product & License Center.
Access Token	If you are connecting to an installation of FlexNet Manager Suite Cloud, enter the access token that was provided by your system administrator.
	If you are connecting to an installation of FlexNet Manager Suite On Premises, leave this field blank.
FNMS URL	To easily configure your connection to FlexNet Manager Suite, entering the FlexNet Manager Suite URL.

5. If you need to enter the Flexera Service Gateway login credentials, click **Advanced** to open the **Credentials** dialog box, where you can enter the Flexera Service Gateway login credentials.

•

Important • By default, the default credentials (admin, admin) are already entered. Unless your system administrator has informed you that these credentials have been changed, you do not need to open the **Credentials** dialog box.

6. Click **Test** to validate and save the Flexera Service Gateway connection information.

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Tip • The Flexera Service Gateway will not appear as registered within AdminStudio. The only place to confirm the current integrated gateway is to check the AdminStudio database for the cssysconnectioninfo table.

 Under Synchronize Flexera Products, click the FlexNet Manager Platform button to search the FlexNet Manager Suite Application Recognition Library (ARL) to locate and obtain the Flexera Identification Number for the Application Catalog's existing applications.



Note • After valid Flexera Service Gateway connection information is entered, each time you import an application into the Application Catalog, the Flexera Identification Number for that application will be automatically obtained from FlexNet Manager Suite / FlexNet Manager Server.

8. Click the **App Portal** button to create a catalog item in App Portal for all of the applications in the Application Catalog that were published to System Center Configuration Manager before the Flexera Service Gateway connection information was entered.

Note • After valid Flexera Service Gateway connection information is entered, each time you publish an application to System Center 2012 Configuration Manager, a catalog item for that application will automatically be created in App Portal.

9. Click OK.

Testing AdminStudio's Connection to the Flexera Service Gateway

If AdminStudio is successfully connected to the Flexera Service Gateway (as described in Connecting AdminStudio to the Flexera Service Gateway), and if FlexNet Manager Suite / FlexNet Manager Server is also connected, a Flexera Identification Number will be displayed on the General Information tab of an application's Application View. Also, messages related to the Flexera Identification Number will be displayed during application import and publication to System Center 2012 Configuration Manager.

- View Flexera Identification Number in Application View
- View Flexera Service Gateway Messages During Import and Distribution to SCCM

View Flexera Identification Number in Application View

If AdminStudio is successfully connected to the Flexera Service Gateway (as described in Connecting AdminStudio to the Flexera Service Gateway), and if FlexNet Manager Suite / FlexNet Manager Server is also connected, a **Flexera Identification Number** will be displayed on the **General Information** tab of an application's **Application View**.



Task

To view an application's Flexera Identification Number:

- 1. Open Application Manager.
- 2. On the Catalog tab, select an application in the tree. The Application View opens.

General Information	Deployment Types	References	Deployment Status	
Property			Value	
Administrator co	mments		Contact: Your local adm	ninistrator
Manufacturer			salesforce.com	
Software version			1.5.178.214	
Date published				
Install from Install Application task sequence			True	
Distribution priority			Medium	
Distribute to preferred DP			False	
Prestaged DP settings			Manually copy the conte	ent in this package to the DP
Display supersedes information to user			False	
Localized descrip	tion		Contact: Your local adm	ninistrator
User documentat	ion			
Icon file		sync_ico		
Classification		Desktop		
Flexera Identification Number		arl://MGS-APP-0000012	5196	

3. Note that an ID number is displayed in the Flexera Identification Number field, such as:

arl://MGS-APP-00000125196

View Flexera Service Gateway Messages During Import and Distribution to SCCM

When AdminStudio is connected to the Flexera Service Gateway, additional output messages appear each time you import an application into the Application Catalog or publish an application to System Center 2012 Configuration Manager. To view these messages, perform the following steps:

Task	To view Flexera Service Gateway messages during import and distribution to SCCM:				
	1.	Using Application Manager, import an application into the Application Catalog. The following messages will be listed on the Import tab of the Output Window:			
		Extracting Flexera Identification Number from FlexNet Manager Platform Done with extracting Flexera Identification Number from FlexNet Manager Platform			
	2.	Using Distribution Wizard, publish an application to System Center 2012 Configuration Manager. The following messages will be listed on the Distribution Output panel of the Distribution Wizard:			
		Sending publish notification to Flexera Gateway Service. Publish notification result from Flexera Gateway Service: Success.			

Configuring Authentication in Internet Explorer

To configure authentication in Internet Explorer so that you can access FlexNet Manager Suite / FlexNet Manager Server from AdminStudio, perform the following steps:

Task

To configure authentication in Internet Explorer:

1. On the AdminStudio machine, enter the following URL in the Internet Explorer web browser:

http://<FNMPServer>/ManageSoftServices/ComplianceAPIService/ComplianceAPIService.asmx

such as:

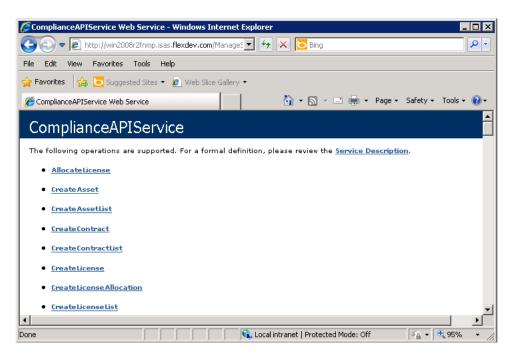
http://win2008r2fnmp/ManageSoftServices/ComplianceAPIService/ComplianceAPIService.asmx



Tip • When identifying the FlexNet Manager Suite / FlexNet Manager Server server in this URL, you can enter either the application server name or the server IP address.

You will then be prompted to login to this server.

2. Enter the login credentials for this server and click OK. The **ComplianceAPIService** page on the FlexNet Manager Suite / FlexNet Manager Server server opens:



- 3. Select Tools > Internet Options. The Internet Options dialog box opens.
- 4. Open the **Security** tab.
- 5. Select the Local intranet zone.

Internet Options					
General Security Privacy Content Connections Programs Advanced					
Select a zone to view or change security settings.					
🧼 💁 🗸 🚫					
Internet Local intranet Trusted sites Restricted sites					
Local intranet This zone is for all websites that are found on your intranet.					
Security level for this zone Allowed levels for this zone: All					
Provide the second					
Enable Protected Mode (requires restarting Internet Explorer)					
<u>Custom level</u> <u>D</u> efault level					
<u>R</u> eset all zones to default level					
OK Cancel Apply					

6. Click Sites. The Local intranet dialog box opens, with the current site (http://win2008r2fnmp) listed in the Add this website to the zone field.

Local intranet	×
You can add and remove websites from this zon this zone will use the zone's security settings.	ne. All websites in
Add this website to the zone:	
http://win2008r2fnmp	Add
Websites:	
hcp://system	Remove
http://localhost https://localhost	
Require server verification (https:) for all sites in thi	s zone
	Close

- 7. Click Add. The site name is now listed in the Websites list.
- 8. Click Close to close the Local intranet dialog box and click OK to close the Intranet Options dialog box.

Upgrading AdminStudio

Upgrading an existing Application Catalog to AdminStudio 2013 is a two step process. You first need to use the user interface to upgrade the database. Then you need to change the Application Catalog database's collation setting to SQL_Latin1_General_CP1_CI_AS.

• Upgrading an Application Catalog

Changing the Database Collation of the Upgraded Application Catalog

Upgrading an Application Catalog

When you attempt to open an existing Application Catalog in the AdminStudio 2013 client tools interface, you are prompted to upgrade the Application Catalog to the latest AdminStudio schema. This section explains this procedure.

Ì

Important • Before you upgrade the Application Catalog database from a previous AdminStudio version, it is strongly recommended that you create a backup of the original database. This is a standard precaution that is recommended to prevent possible data loss. If you are using the Application Catalog Software Repository feature, you may also want to make a backup copy of your Software Repository directories before upgrading.

Task

To upgrade an existing Application Catalog:

- 1. Launch Application Manager.
- 2. On the Application Manager tab menu, select Connect. The Connect Application Catalog dialog box opens.
- 3. Open the Standalone tab. The Standalone tab opens, prompting you to enter database connection information.
- **4.** If you want this Application Catalog to be the default shared Application Catalog used in your organization, select the corresponding option at the bottom of the dialog box.
- 5. Select the Server where the Application Catalog is stored.
- Specify how the database server should verify the authenticity of the login—either using Windows Authentication or Server Authentication. If you selected Server Authentication, enter the appropriate Login ID and Password.
- 7. In the Catalog box, enter the name of the Application Catalog you want to open.
- 8. Click Test to test the connection to the database.
- 9. Click OK. A message opens stating that the Application Catalog needs to be upgraded, and asking Do you want to upgrade now?.
- 10. Click Yes. The Welcome panel of the Upgrade Wizard opens.
- 11. Click Next. The Upgrade Progress panel opens and the upgrade begins.

When the upgrade is complete, the message Upgrade Completed is listed, and the Finish button is enabled.

12. Click Finish. The upgrade is now complete and all of your Application Catalog data has been preserved.



Note • When an SQL Server Application Catalog database is upgraded, the old tables are not dropped from the Application Catalog.

Changing the Database Collation of the Upgraded Application Catalog

Generally, an Application Catalog database obtains its collation setting from the SQL Server collation setting, unless one specifies a different collation setting. Therefore, if an SQL Server is running with the collation setting of Latin1_General_CI_AS, then any database created on this SQL Server will have the collation setting of Latin1_General_CI_AS by default.

However, AdminStudio 2013 or later requires the database collation to be SQL_Latin1_General_CP1_CI_AS. If a new Application Catalog is created using AdminStudio 2013 or later, that Application Catalog database is created with the correct collation setting, irrespective of the SQL Server collation setting. However, if you upgrade an Application Catalog database from a previous version to the AdminStudio 2013 or later schema using the Upgrade Wizard or using scripts, the collation setting is not changed, so you must perform the steps below to change it.



Note • In the United States, the default collation for any SQL Server is SQL_Latin1_General_CP1_CI_AS. However, in other geographies such as the United Kingdom and Europe, the default collation is set to something else. Therefore, this topic is more relevant to users located in geographies outside of the United States.

Important • If the collation setting of an AdminStudio 2013 or later Application Catalog is not set to the correct collation setting, you will be able to connect to it, but it will cause Application Manager to periodically crash. An error message such as the following will appear in the log file (ISCMIDE.Log):

'Exception 'System.Data.SqlClient.SqlException (0x80131904): Cannot resolve the collation conflict between "Latin1_General_CI_AS" and "SQL_Latin1_General_CP1_CI_AS" in the equal to operation.'

To change the collation setting of an AdminStudio Application Catalog database to SQL_Latin1_General_CP1_CI_AS, perform the following steps:

Task

To change the collation setting of an AdminStudio Application Catalog database:

1. Download the following ZIP file and extract the files to a temporary folder:

http://helpnet.flexerasoftware.com/adminstudio2013/CollationChange.zip

- 2. Open SQL Management Studio and run the Pre_Collation_Change.sql file against the AdminStudio 2013 Application Catalog database.
- **3.** Open the Collation_Change.sql file in an editor and replace the AS_DATABASE_NAME string with the name of the Application Catalog database that you are upgrading.
- 4. Run the Collation_Change.sql file against the AdminStudio 2013 Application Catalog database.
- 5. Run the Post_Collation_Change.sql file against the AdminStudio 2013 Application Catalog database.

The collation setting of the AdminStudio Application Catalog database will now have been changed to SQL_Latin1_General_CP1_CI_AS.

Chapter 7 Configuring AdminStudio

Upgrading AdminStudio

Configuring Workflow Manager

When Workflow Manager is connected to the Flexera Service Gateway, you can connect an App Portal catalog item to a Workflow Manager workflow request.

- Connecting Workflow Manager to the Flexera Service Gateway
- Testing Workflow Manager's Connection to the Flexera Service Gateway
- Upgrading Workflow Manager
- Troubleshooting Workflow Manager Issues

Connecting Workflow Manager to the Flexera Service Gateway

The Flexera Service Gateway is a component that enables AdminStudio, Workflow Manager, App Portal, and FlexNet Manager Platform to communicate. When Workflow Manager is connected to the Flexera Service Gateway, you can connect an App Portal catalog item to a Workflow Manager workflow request.

In App Portal, you select an event that you want to trigger a Workflow Manager workflow (such as **On Submit Approval**) and the Workflow Manager project that you want to use. A workflow request is then created in Workflow Manager. When Workflow Manager completes the workflow request, the status in App Portal changes to **Complete**.

The method used to connect Workflow Manager to the Flexera Service Gateway varies by version:

- Workflow Manager 2015 and 2016
- Workflow Manager 2013 or 2014

Workflow Manager 2015 and 2016

To connect Workflow Manager to the Flexera Service Gateway, perform the following steps:

Task	To connect to the Flexera Service Gateway:		
	1.	Launch the following file on the machine where you installed Workflow Manager:	
		C:\AdminStudioWebComponents_[VERSION]\Support\Config\Config.exe	
		The AdminStudio Configuration Wizard Welcome panel opens.	
	2.	Select Configure Flexera Service Gateway and click Next . The Configuration Settings: Flexera Service Gateway panel opens.	
	3.	In the Gateway Host Name field, enter the name of your Flexera Service Gateway Server.	
	4.	By default, the user name and login to the Flexera Service Gateway is admin / admin. If your organization is using a different user name and password, click Advanced and enter the appropriate credentials.	
	5.	Leave the Access Token and Application Recognition Service URL fields blank.	
	6.	Click Test to test the connection. You should receive the following message:	
		Connection to Flexera Service Gateway successful!	
		Testing WorkflowManager was successful at http://SERVER_NAME:81/WebServicesroot/authentication.asmx	
		The configuration begins and messages are displayed.	
	7.	When the configuration steps are complete, click Finish to close the wizard.	

Workflow Manager 2013 or 2014

To connect Workflow Manager to the Flexera Service Gateway, perform the following steps:

Task	To connect to the Flexera Service Gateway:			
	1.	In Workflow Manager, open the System Settings subtab of the Administration tab.		
	2.	Under Register With Flexera Service Gateway, enter the following information:		
		• Workflow Manager Portal Server—Enter the IP address of your Workflow Manager portal server. Do not enter an http://prefix.		
		• Flexera Service Gateway Server—Enter the name of your Flexera Service Gateway Server.		
		Register With Flexera Service Gateway		
		Services in Flexera Service Gateway only works with Windows Authentication. Please enter the Workflow Manager portal host name to register with Flexera Service Gateway		
		Workflow Manager Portal Server: 111.200.33.444		
		111.200.33.444		

3. Click Update.

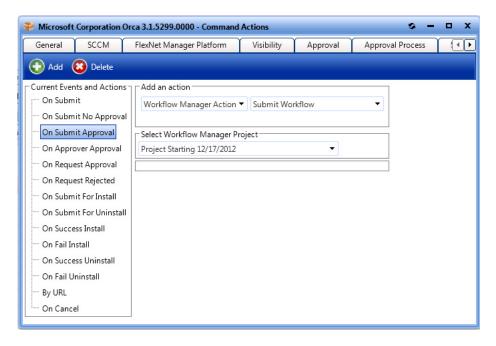
Testing Workflow Manager's Connection to the Flexera Service Gateway

To test Workflow Manager's connection to the Flexera Service Gateway, perform the following steps:

Task

To test Workflow Manager's connection to the Flexera Service Gateway:

- 1. In App Portal, open the Actions tab of a catalog item's Catalog Item Properties dialog box.
- Under Current Events and Actions, select an event that you want to trigger a Workflow Manager workflow (such as On Submit Approval).
- 3. Under Add an action, select Workflow Manager Action from the first list and Submit Workflow from the second list.
- 4. Under Select Workflow Manager Project, select a project from the list.



- 5. Click Add.
- 6. On the Browse Catalog tab, submit a workflow request for this catalog item.
- 7. Open Workflow Manager to see if a workflow request was automatically created for this catalog item.
- 8. In Workflow Manager, complete the workflow request.
- 9. Open App Portal and confirm that the status of the catalog item request has changed to Complete.

Upgrading Workflow Manager

To upgrade an existing version of Workflow Manager to a new version, perform the following steps.

Task

To upgrade a previous version of Workflow Manager:

- 1. On the Workflow Manager web server, launch the Workflow Manager installer. The **Welcome** panel opens and states that it has detected an existing version of Workflow Manager.
- 2. Click Next. The License Agreement panel opens.
- **3.** Select the **I accept the terms of the license agreement** option and click **Next**. The **Ready to Upgrade the Program** panel opens.
- 4. Click Install. The upgrade of the installation of Workflow Manager begins. When the upgrade is complete, the **Completed** panel opens.
- 5. Click **Finish** to exit the wizard.



Note • A log file has been created to help you identify any customizations that you may have made since the original installation of the previous version. You may need to take additional manual steps to port over these customizations to the latest version.

Troubleshooting Workflow Manager Issues

You may encounter the following issues when running Workflow Manager in an integrated environment.

• Test Center Testing Fails When Triggered by Workflow Manager

Test Center Testing Fails When Triggered by Workflow Manager

Problem

When a Workflow Manager workflow request triggers testing in Application Manager Test Center, the testing fails.

Cause

If Test Center testing fails when testing is triggered by Workflow Manager, it could be because an anti-virus program is installed and running on the machine where AdminStudio is installed, and is blocking the functionality required to test Windows Installer packages. Testing could fail because the anti-virus software prevents the extraction of CAB files from the Windows Installer packages, thus stopping the correct execution of tests.

Resolution

To resolve this issue, turn off the anti-virus software program on the machine where AdminStudio is installed.

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