



Workflow Manager 2015 Release Notes

10 September 2015

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Introduction

Workflow Manager helps enterprises efficiently manage the application readiness and software license optimization processes to streamline the procurement, preparation, deployment, and ongoing management of applications. Workflow Manager maximizes productivity of the IT team by automating change management, asset management, and other ITIL processes as part of the enterprise application lifecycle.

When IT-wide processes such as preparing application for deployment, migrations, and license optimization are managed poorly, expensive errors can occur, resulting in costly delays, lost productivity, and overspending. Workflow Manager standardizes, coordinates, and streamlines the management of applications through the entire enterprise lifecycle, reducing costs and maximizing productivity.

Workflow Manager supports both AdminStudio Suite and FlexNet Manager Suite for Enterprises. IT teams of every size use Workflow Manager to coordinate software asset management—from application packaging and deployment, through software licensing and optimization after deployment. Workflow Manager can manage desktop management processes, such as preparing for Windows migrations and application virtualization, as well as procurement, auditing, and retirement of software assets.

Streamline the Application Readiness Processes

Workflow Manager enables you to streamline the application readiness process:

- Give end users an easy way to submit requests for new software packaging services and initiate IT projects
- Assign requests to the packager with the most bandwidth and monitor progress in real time
- See assigned tasks in an easy-to-follow graphical workflow, eliminating the need for ad-hoc guesswork
- Generate detailed management reports on every aspect of the software packaging process
- Track and manage SLAs (service level agreements) to ensure compliance

Coordinate Software License Optimization

Workflow Manager helps you coordinate software license optimization:

- Collects data from other IT systems necessary for next generation software asset management
- Real time updates increase data accuracy of procurement and receiving of new software and contracts
- Coordinate audit reviews of contract obligations and current compliance
- Ensures collaboration of cross-functional teams involved in the management of software assets
- View the real-time status of every project, who is working on it, and any issues that arise

Tightly Integrate Management of the Application Lifecycle With Existing IT Processes

Using Workflow Manager, you can integrate the management of the application lifecycle with your existing IT processes:

- Exposed APIs enable integration with help desk tools and processes including incident, change, and release management from leading vendors including BMC Remedy® and ServiceNow
- Share package files, metadata, licensing information and other application lifecycle data with IT systems like the CMDB to simplify ITIL or Microsoft BDD implementations
- Provides connectivity to HR, Active Directory, procurement, ERP and other systems for user, computer, purchasing and organizational data

New Features in Workflow Manager 2015

Workflow Manager 2015 includes the following new features:

- [Completely Redesigned User Interface](#)
- [Improved Search Engine](#)
- [Enhanced Reporting with New Dashboard](#)
- [New Configuration Wizard](#)

Completely Redesigned User Interface

Workflow Manager is used by many different users (software licensing experts, application readiness engineers, business users requesting new software) and is designed to be integrated with AdminStudio Inventory and Rationalization, FlexNet Manager, and App Portal, which all have a consistent web based user interface.

To enhance integration with these applications, Workflow Manager 2015's user experience has been completely redesigned to ensure it is easy to navigate, and consistent with these other Flexera solutions.

Workflow Manager 2015 now has a consistent user experience that is intuitive to use standalone, or when integrated with other Flexera Software applications.

- [New Horizontal Navigation Bar](#)
- [All Panels Redesigned to Enhance Customer User Experience](#)
- [Redesigned Workflow Progress Page](#)
- [Redesigned Template Details Page](#)
- [Improved Report Access and Creation](#)

New Horizontal Navigation Bar

Workflow Manager 2014 had a vertical navigation bar on the left side of the screen, which sometimes would require you to scroll down in order to view all menu items. In Workflow Manager 2015, you navigate through the screens by clicking on logically grouped menu items in the navigation bar at the top of the page.

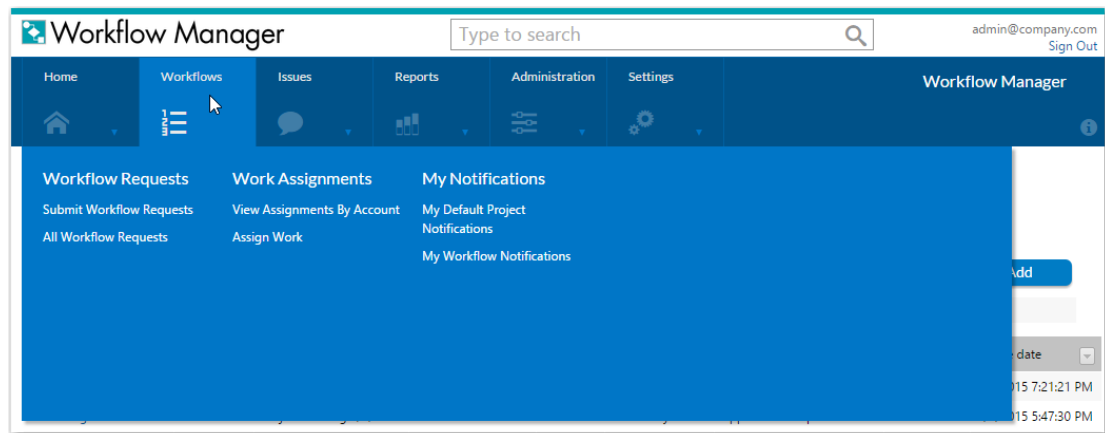


Figure 1: Workflow Manager Navigation Bar Menu

The items which appear on the navigation bar menus vary according to your permissions and whether you are a workflow administrator or consumer. The Workflow Manager navigation bar menus contain the following selections:

Table 1 • Navigation Bar Selections

Menu	Heading	Menu Selection
Home	Options	Dashboard
		Getting Started
Workflows	Workflow Requests	Submit Workflow Requests
		All Workflow Requests
	Work Assignments	View Assignments By Account
		Assign Work
	My Notifications	My Default Project Notifications
		My Workflow Notifications

Table 1 • Navigation Bar Selections (cont.)

Menu	Heading	Menu Selection
Issues	Open Issues	All Open Issues
		Recently Created Issues
		Recently Created Critical Issues
		Recently Responded Issues
	Closed Issues	Recently Closed Issues
Reports	Standard Reports	All Reports
		Request Detail Report
		Project SLA Report
		Projects Report
		Workflow Request Summary Report
		Workflow Steps SLA Report
	Custom Reports	Create Custom Workflow Manager Report
		Create Workflow Manager Activity Report
		Create Custom SQL Query Report
		Create Custom Stored Procedure Report
	AdminStudio Reports	Search Packages
		Application Catalog Reports
Administration	Design	Projects
		Templates
		Approvals
	Configuration	Workflow Status
		External Email Addresses
		Calendar Settings

Table 1 • Navigation Bar Selections (cont.)

Menu	Heading	Menu Selection
Settings	Configuration	Accounts and Groups
		Roles
		Email Templates
		Companies
		Directory Services
		External Web Services
		External Data Sources
		Directory Service Attributes

When you scroll down on a page, the navigation bar remains visible, but only the icons are displayed. This helps you conserve vertical space in your browser window.







Workflow Manager									
									
Adobe Illustrator CC	WF 2	Project Starting 9/1/2015	Workflow Consumer	Active	Data Entry Phase	Application Request Review	Yes	9/1/2015 7:21:21 PM	
Adobe Lightroom CC	WF 3	Project Starting 9/1/2015	Workflow Consumer	Active	Data Entry Phase	Application Request Review	Yes	9/2/2015 5:47:30 PM	
Adobe Photoshop CC	WF 1	Project Starting 9/1/2015	Workflow Consumer	Active	Work Phase	Application Initial Testing	Yes	9/1/2015 4:42:25 PM	
Adobe Dreamweaver CC	WF 4	Project Starting 9/1/2015	Workflow Consumer	Active	Work Phase	Application Initial Testing	Yes	9/2/2015 5:48:09 PM	

Figure 2: Icon Only View of Navigation Bar

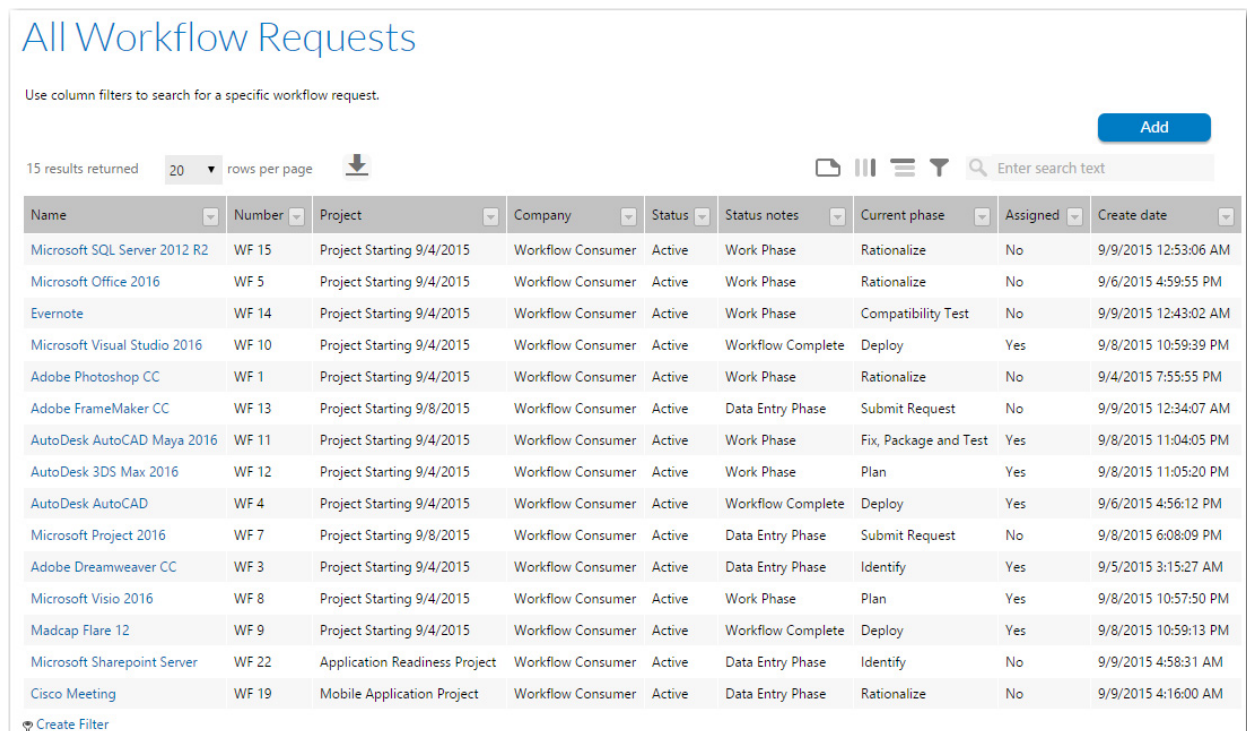
All Panels Redesigned to Enhance Customer User Experience

All of the screens where a consumer or administrator interacts with Workflow Manager have been redesigned to enhance the customer user experience. Consistent fonts, colors, and controls have been implemented throughout. Buttons are large and easily visible.

- Consistent List Presentation
- Lengthy Pages Have Been Grouped Into Subtabs
- Use of Pop-Ups Has Been Minimized

Consistent List Presentation

All lists in Workflow Manager now use the same controls, which have extensive searching, filtering, and grouping capabilities.



All Workflow Requests

Use column filters to search for a specific workflow request.

15 results returned 20 rows per page

Add

Enter search text

Name	Number	Project	Company	Status	Status notes	Current phase	Assigned	Create date
Microsoft SQL Server 2012 R2	WF 15	Project Starting 9/4/2015	Workflow Consumer	Active	Work Phase	Rationalize	No	9/9/2015 12:53:06 AM
Microsoft Office 2016	WF 5	Project Starting 9/4/2015	Workflow Consumer	Active	Work Phase	Rationalize	No	9/6/2015 4:59:55 PM
Evernote	WF 14	Project Starting 9/4/2015	Workflow Consumer	Active	Work Phase	Compatibility Test	No	9/9/2015 12:43:02 AM
Microsoft Visual Studio 2016	WF 10	Project Starting 9/4/2015	Workflow Consumer	Active	Workflow Complete	Deploy	Yes	9/8/2015 10:59:39 PM
Adobe Photoshop CC	WF 1	Project Starting 9/4/2015	Workflow Consumer	Active	Work Phase	Rationalize	No	9/4/2015 7:55:55 PM
Adobe FrameMaker CC	WF 13	Project Starting 9/8/2015	Workflow Consumer	Active	Data Entry Phase	Submit Request	No	9/9/2015 12:34:07 AM
AutoDesk AutoCAD Maya 2016	WF 11	Project Starting 9/4/2015	Workflow Consumer	Active	Work Phase	Fix, Package and Test	Yes	9/8/2015 11:04:05 PM
AutoDesk 3DS Max 2016	WF 12	Project Starting 9/4/2015	Workflow Consumer	Active	Work Phase	Plan	Yes	9/8/2015 11:05:20 PM
AutoDesk AutoCAD	WF 4	Project Starting 9/4/2015	Workflow Consumer	Active	Workflow Complete	Deploy	Yes	9/6/2015 4:56:12 PM
Microsoft Project 2016	WF 7	Project Starting 9/8/2015	Workflow Consumer	Active	Data Entry Phase	Submit Request	No	9/8/2015 6:08:09 PM
Adobe Dreamweaver CC	WF 3	Project Starting 9/4/2015	Workflow Consumer	Active	Data Entry Phase	Identify	Yes	9/5/2015 3:15:27 AM
Microsoft Visio 2016	WF 8	Project Starting 9/4/2015	Workflow Consumer	Active	Work Phase	Plan	Yes	9/8/2015 10:57:50 PM
Madcap Flare 12	WF 9	Project Starting 9/4/2015	Workflow Consumer	Active	Workflow Complete	Deploy	Yes	9/8/2015 10:59:13 PM
Microsoft Sharepoint Server	WF 22	Application Readiness Project	Workflow Consumer	Active	Data Entry Phase	Identify	No	9/9/2015 4:58:31 AM
Cisco Meeting	WF 19	Mobile Application Project	Workflow Consumer	Active	Data Entry Phase	Rationalize	No	9/9/2015 4:16:00 AM

Create Filter

Figure 3: Typical List in Workflow Manager

Lengthy Pages Have Been Grouped Into Subtabs

In Workflow Manager 2014, pages that contained a large number of entry fields made it necessary to scroll down to see all of the fields, or required expand/collapse controls. In Workflow Manager 2015, lengthy pages are now displayed using subtabs, each of which contains a logical grouping of fields. On each of the tabs, an icon is displayed to help you quickly identify its purpose.

The screenshot displays the 'Project Details' page in Workflow Manager 2015. The page title is 'Project Details' in blue. Below the title, a subtitle reads 'Enter the details about this project.' The main content area is titled 'SLA Information' in blue. It contains several input fields: '* Workflow due period:' with a value of '5', '* Workflow at risk period:' with a value of '2', '* Start date:' with a value of '9/7/2015' and a calendar icon, '* End date:' with a value of '3/5/2016' and a calendar icon, and 'Send emails at workflow risk :' with an unchecked checkbox. On the right side of the page, there are three buttons: 'Save' (blue), 'Cancel' (grey), and 'Delete' (grey). Below these buttons is a vertical list of subtab buttons: 'General Information' (with an information icon), 'Project Information' (with a folder icon), 'SLA Information' (with a clock icon and currently selected), 'Work Week Information' (with a calendar icon), 'Holiday Information' (with a musical note icon), and 'Automatic Work Assignment' (with a circular arrow icon).

Figure 4: Subtab Interface of Project Details Page

Use of Pop-Ups Has Been Minimized

In Workflow Manager 2014, pop-ups were often used when you were completing a workflow step, searching for a user, or upload files. In Workflow Manager 2015, these pop-ups have been replaced by temporary areas that open on a page when an action is initiated. As soon as the action is completed, these areas close.

In the following example, when you click **Assign Administrator Contact**, the area in gray opens, which provides the fields required to search for a user account.

General Information

* Project name: Project Starting 9/9/2015

* Company/business unit: Workflow Consumer ▼

* Workflow request prefix: WF

* Template: Application Readiness ▼

* Consumer contact: [Assign Consumer Contact](#)

* Administrator contact: [Assign Administrator Contact](#)

Companies Workflow Administrator ▼

Roles SCAdmin ▼

Account Name a

#	FullName	Account Name	Account Type	Workflows
<input type="checkbox"/>	admin@servicer.com	admin@servicer.com	Database	4

Figure 5: Temporary User Search Area on Project Details Page

Redesigned Workflow Progress Page

In Workflow Manager 2015, a redesigned **Progress** tab for Workflow Requests page is introduced. This new **Progress** tab implements a phase navigation bar, informational icons, and the ability to enter workflow step completion information without the use of pop-ups.

The following screen capture displays a six-phase workflow request. The current phase is **5. Fix Package, and Test**, and the current workflow step is **Package and test application**:

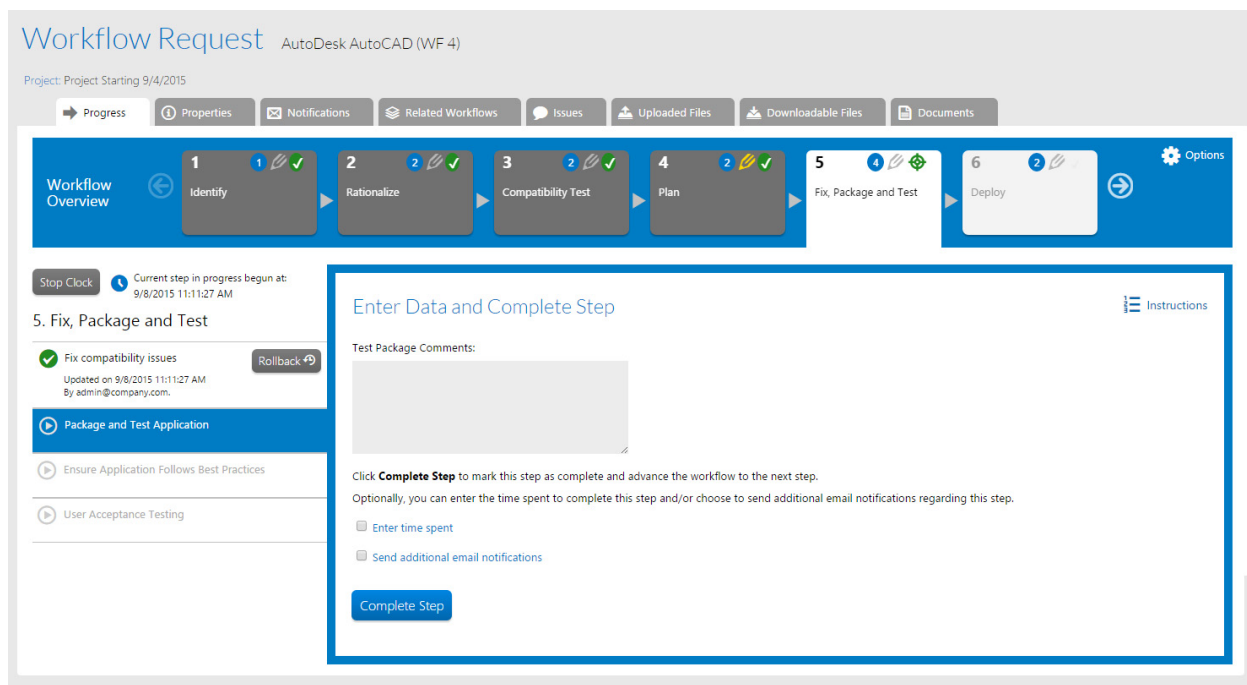


Figure 6: Workflow Request Page / Progress Tab

The new **Progress** tab consists of several distinct areas and uses icons to communicate information about the workflow request.

- Phase Navigation Bar
- Workflow Step Area
- Workflow Step Completion Panel
- Icons Used in on Workflow Progress Tab

Phase Navigation Bar

You can switch between the current and completed phases by clicking in the phase navigation bar:

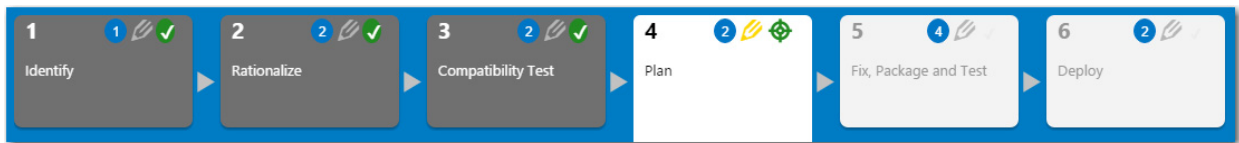


Figure 7: Phase Navigation Bar

Completed phases have a dark gray background. The background of the current phase is white, while future phases have a light gray background. You can scroll through any completed phase or the current phase. However, you cannot view future phases.

If the workflow template uses branching condition, the branch location has a yellow background:

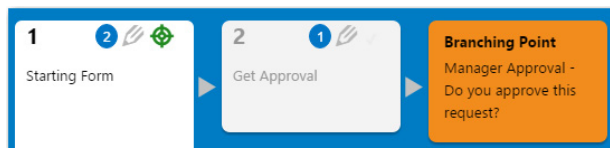


Figure 8: Phase With a Branch Point

When the branching question is answered, the rest of the phases in the chosen branch are then displayed in the phase navigation bar.

Workflow Step Area

A list of the workflow steps of the selected workflow phase are listed on the left side of the page.

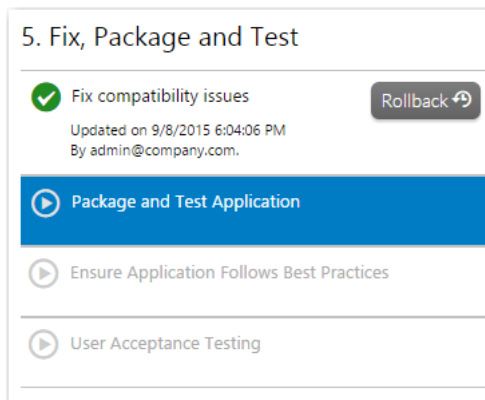


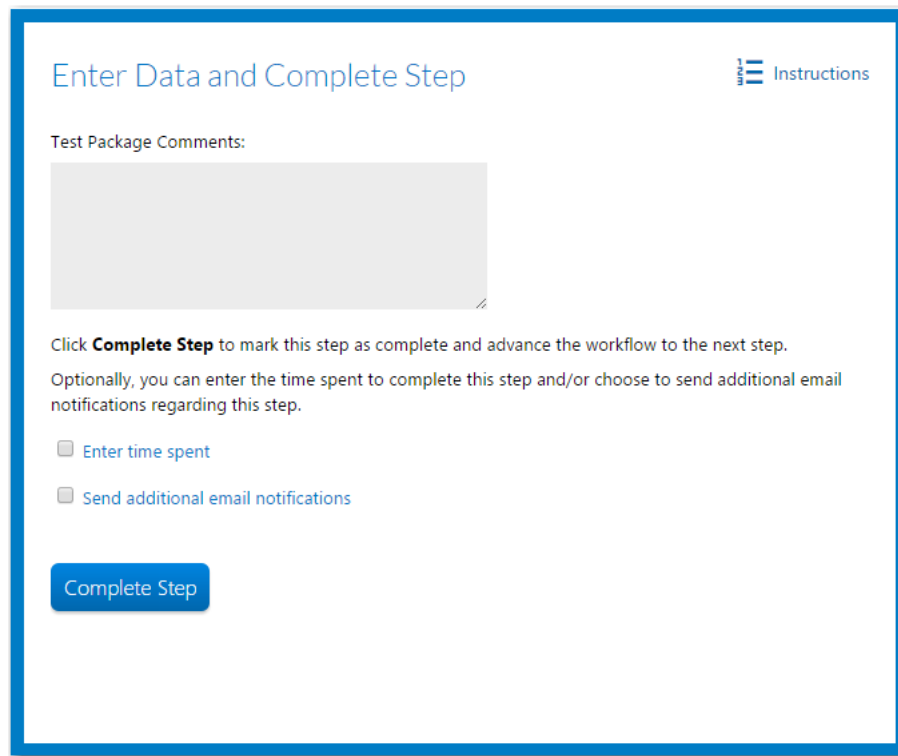
Figure 9: Workflow Step Area

Completed steps are indicated by a green check mark, and lists the time it was completed and the user who completed it. The current step is highlighted in blue.

When you select a completed or current step, that step's workflow step completion panel is displayed on the right. You cannot select a future step.

Workflow Step Completion Panel

The middle portion of the page displays the step completion fields for the selected workflow step.



The screenshot shows a web interface titled "Enter Data and Complete Step" with a blue header bar. In the top right corner of the header is a menu icon and the word "Instructions". Below the header, there is a section labeled "Test Package Comments:" followed by a large, empty text input area. Below this, there is instructional text: "Click **Complete Step** to mark this step as complete and advance the workflow to the next step. Optionally, you can enter the time spent to complete this step and/or choose to send additional email notifications regarding this step." Below the text are two checkboxes: "Enter time spent" and "Send additional email notifications". At the bottom of the panel is a blue button labeled "Complete Step".






Figure 10: Workflow Step Completion Panel

When you enter the required information and click **Complete Step**, the step is marked as complete. When data entry is required for a workflow step, the data entry fields are displayed in this area.

Icons Used in on Workflow Progress Tab

The following icons are used on the **Progress** tab to provide information on the state of each workflow phase and workflow step:

Phase Icon Legend

	Number of steps in phase		Click to add/edit comment
	Current phase		Comment has been added
	Phase is complete		

Step Icon Legend




	Current step
	Future step
	Completed step

Figure 11: Icons Used on Workflow Progress Tab

Redesigned Template Details Page

The **Template Details** page has also been redesigned to incorporate the same consistent user experience that is easy to navigate, and consistent with these other Flexera Software solutions.

The workflow phase views appear on the **Workflow Phases** tab, while the data group views are on the **Data Groups** tab. Navigation trees are displayed along the left side.

Role permissions and email notifications fields are displayed on the **Permissions** and **Notifications** subtabs.

The screenshot displays the 'Template Details' page for a template named 'Packaging for Marketing'. The page is divided into three main tabs: 'Template', 'Workflow Phases', and 'Data Groups'. The 'Workflow Phases' tab is active, showing a list of workflow phases on the left and a detailed view of the 'Rationalize' phase on the right. The left sidebar contains a navigation tree with categories like 'Identify', 'Rationalize', 'Compatibility Test', 'Plan', and 'Fix, Package and Test'. The 'Rationalize' phase is currently selected. The main content area shows the 'Workflow Phase Details' for 'Rationalize', including fields for Name, Type, and Sort order. Below this, there is a section for 'Workflow phase branching' with radio buttons for 'Yes' and 'No', and a dropdown for 'Link to next phase'. At the bottom, there are buttons for 'Update', 'Cancel', and 'Delete'. On the right side of the main content area, there are subtabs for 'Phase Details', 'Permissions', and 'Notifications'.

Template Details

Define and edit the properties of this template.

Template name: Packaging for Marketing

Information: This item is not used by any requests and therefore is fully editable.

Template Workflow Phases Data Groups

Add

Identify

Review Request Details

Rationalize

Compatibility Test

Test for OS Compatibility

Test for Application Virtualization Suitability

Plan

Determine Target Environments

Determine Packaging Format(s)

Fix, Package and Test

Fix compatibility issues

Package and Test Application

Workflow Phase Details

*Name: Rationalize

*Type: Work Phase

*Sort order: 20

Workflow phase branching

*Define a condition for workflow branching?: Yes No

Link to next phase: Compatibility Test

Currently, this Workflow Phase follows these other Workflow Phase(s):

Workflow phase

Identify

Update Cancel Delete

Phase Details Permissions Notifications

Figure 12: Workflow Template Details Page

A combo **Add** button is used to add workflow phases/steps and data groups/elements:

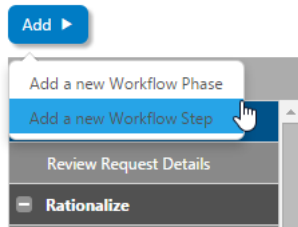


Figure 13: Combo Add Button

Improved Report Access and Creation

Workflow Manager 2015 includes a redesigned **All Reports** page which lists current reports in either card or list view. To open any of these reports, just click on the icon.

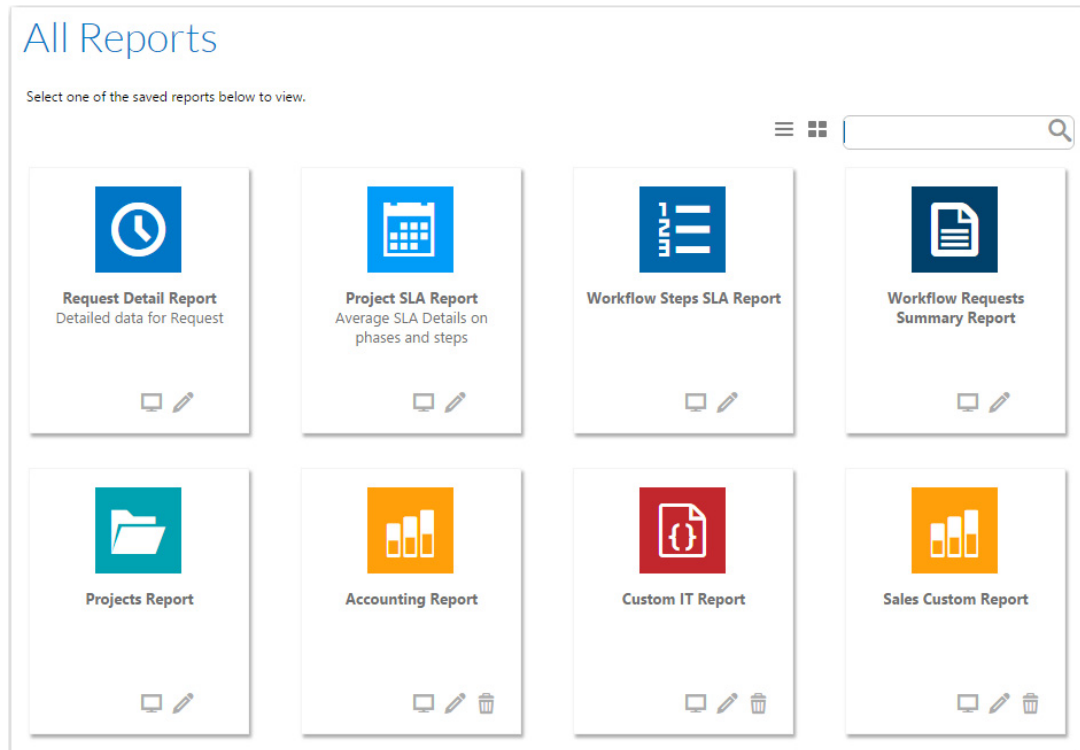


Figure 14: All Reports Page

For custom reports, the wizard interface has been redesigned to improve ease of use.

Create Custom Workflow Manager Report

Step 2: Select report fields

Report fields:

☐ Select/Deselect all

☒ Packages

☒ Comments

☒ File Modified Date

☒ File Name

☐ Import Date

☒ In Software Repository

☐ Manufacturer

☒ Package Code

☐ Product Code

☒ Product Language

☒ Product Name

Previous

Next

Figure 15: Create Custom Workflow Manager Report / Step 2: Select report fields

Improved Search Engine

Workflow Manager 2015 includes a new search engine that makes it easy to search through workflow requests that are open, and those that have been completed, as well as search through historical issues. The search engine easily locates open and completed requests, projects, and issues, which can help you find information that can expedite related requests.

To perform a search for a workflow request, project, or issue, you enter a search term in the search box above the navigation bar. When you put your cursor in the search box, the **Filter Your Search** menu opens to enable you to focus your search to specific portions of the available data.

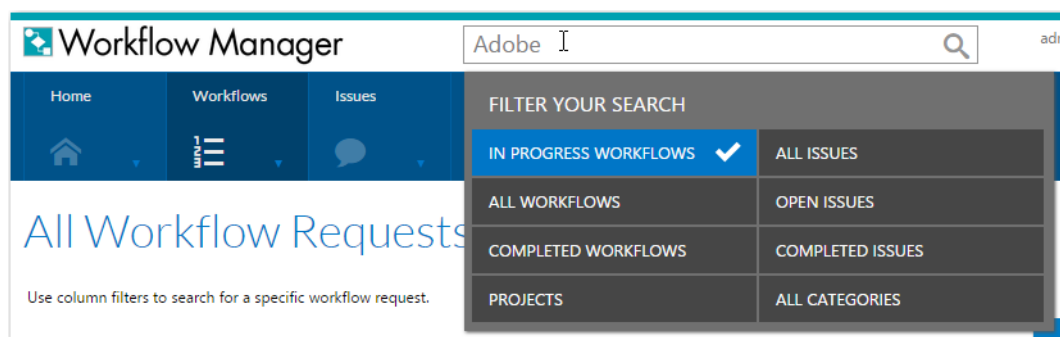


Figure 16: Search Box and Filter Your Search Menu

In the Filter Your Search box, just select the categories that you want to include in the search, and click enter. The results are listed by category.

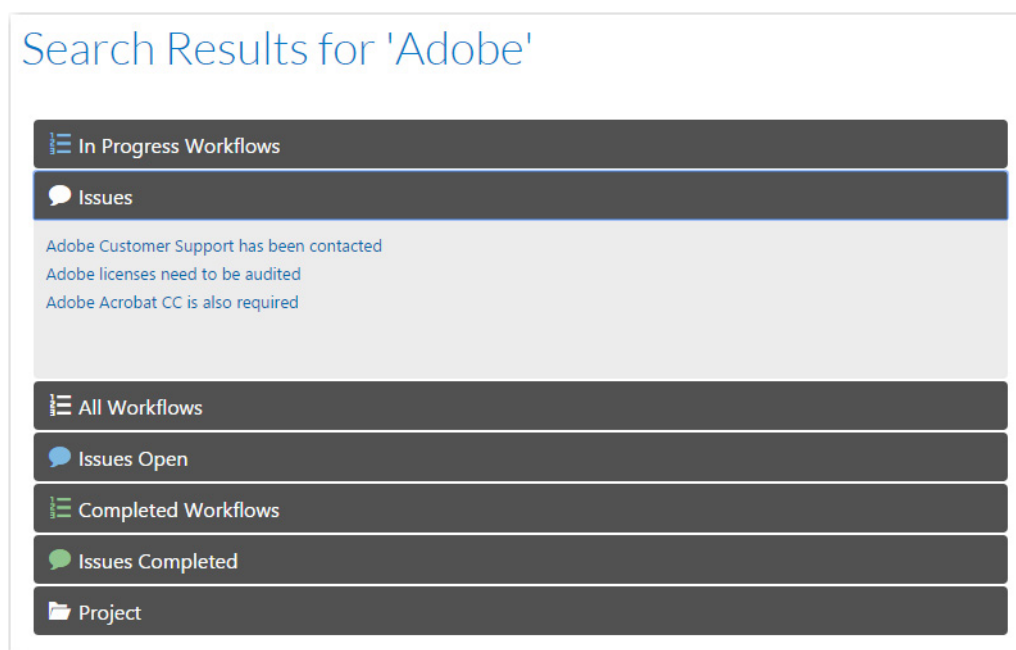


Figure 17: Search Results Page

On the **Search Results** page, you can click on a category name to expand/collapse the listing, and can click on a result link to open that page.

Enhanced Reporting with New Dashboard

Workflow Manager 2015 provides quick access to metrics and reporting on the quality and speed of service delivery on the new **Dashboard** reports.

These reports include summary information about workflow requests, relevant work assignments, and issues. The dashboard information is tailored to each user, based on their permissions and displays at glance information about the projects they contribute to.

Viewing a Summary Dashboard Report of All Workflow Requests

On the **Dashboard** page of the **Home** menu, color-coded boxes display the total number of workflow requests that are open, and also breaks down the total number by current SLA status: Late, At Risk, or On Time. It also lists a bar and line chart that, by default, provides status summary information for all of workflow requests.

Dashboard

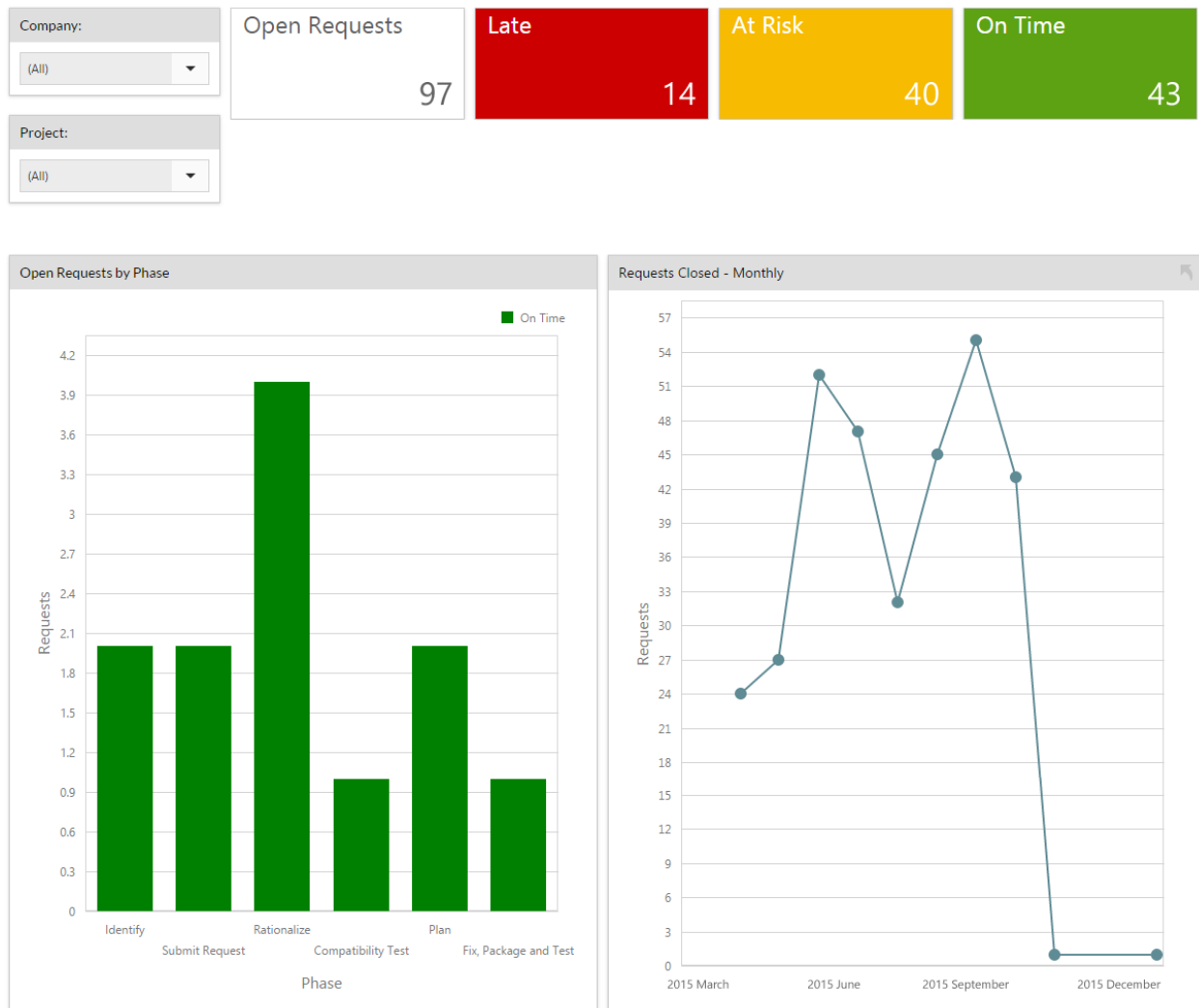


Figure 18: Dashboard Report

The lower portion of the dashboard report includes the following additional information:

- **Request Assignments**—Total number of workflow request assignments broken down by user.
- **Open Issues**—List of all open issues.

Viewing Dashboard Reports for an Individual Project

If you make a selection from the **Company** and **Project** list, the report will be filtered to display information only about the selected product.

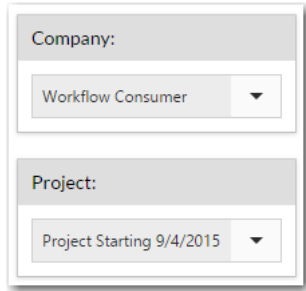
The image shows a web interface for selecting filters. It consists of two vertically stacked sections. The top section is titled 'Company:' and contains a dropdown menu with 'Workflow Consumer' selected. The bottom section is titled 'Project:' and contains a dropdown menu with 'Project Starting 9/4/2015' selected. Both sections have a light gray header and a white body with a dropdown arrow on the right.

Figure 19: Company and Project Selection List

New Configuration Wizard

With Workflow Manager 2015, you can now use the AdminStudio Configuration Wizard to create the Workflow Manager database, activate the product, connect to the Flexera Service Gateway, and perform other configuration tasks which were formerly made by editing the `web.config` file.

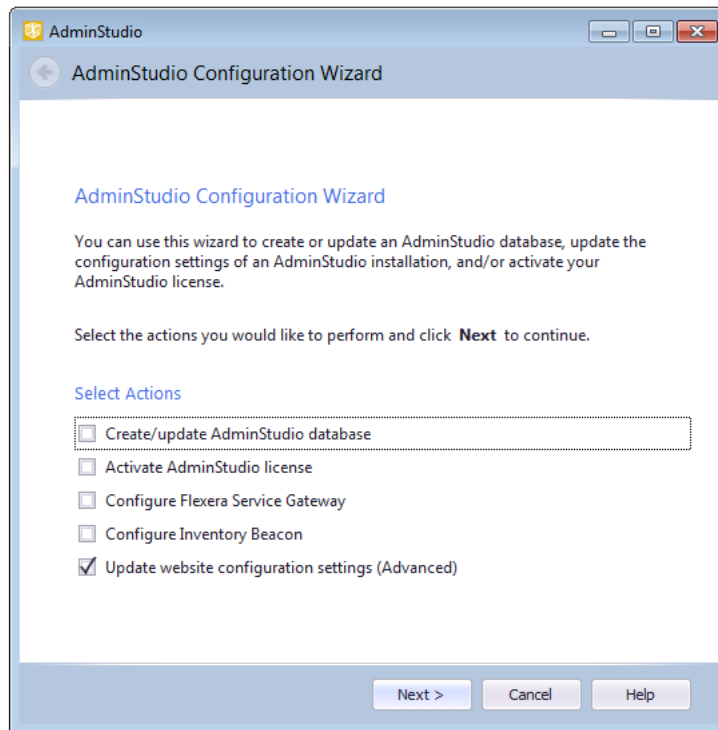


Figure 20: AdminStudio Configuration Wizard

The AdminStudio Configuration Wizard is automatically launched after Workflow Manager installation, and can also be launched at any time after installation. Standard panels are displayed during installation, and additional advanced panels can be displayed after installation.

Using the AdminStudio Configuration Wizard, you can:

- Create or update a new Workflow Manager database.
- Set the default connection for web site users.
- Activate by uploading a license file.
- Connect to the Flexera Service Gateway.
- Specify the file share directory.
- Disable step-level SLA so that all workflow steps are included in SLA calculations.
- Specify the login page timeout value.

You can launch the Configuration Wizard at any time by opening the following file that is installed with Workflow Manager:

`C:\AdminStudiowebComponents_2015\Support\Config\Config.exe`


System Requirements

This section lists the system requirements for Workflow Manager / AdminStudio Enterprise Server.

- [Workflow Manager Web Server / AdminStudio Enterprise Server](#)
- [Workflow Manager / AdminStudio Database Server](#)
- [File Share Server](#)
- [Workflow Manager End User Computers](#)
- [Portal Web Server for Intranet Clients](#)
- [Portal Web Server for Internet Clients](#)
- [Workflow Manager System Account Requirements](#)


Workflow Manager Web Server / AdminStudio Enterprise Server

The following table lists the system requirements for the Web server that hosts the Workflow Manager Data Web service and the actual Workflow Manager Web site and/or AdminStudio Enterprise Server.

Item	Description
Processor	32-bit or 64-bit processor at 2 GHz or greater.  Note • AdminStudio Enterprise Server / Workflow Manager runs in 32-bit mode on a 64-bit OS.
RAM	4 GB or greater (8 GB preferred)
Hard Disk Space	100 GB or greater
Operating System	Windows Server 2008 R2 or later / English base language (Windows Server 2012 preferred)
IIS	IIS 7.0 or later
.NET Framework	.NET Framework 4.5.2 or later
ASP.NET	ASP.NET 4.0.30319 or later
MSXML	MSXML 4.0

Workflow Manager / AdminStudio Database Server

This following table lists the recommended system configuration for a Workflow Manager/AdminStudio Application Catalog database server:

Item	Description
Processor	32-bit or 64-bit processor at 2 GHz or greater
RAM	4 GB or greater (8 GB preferred)
Hard Disk Space	80 GB or greater
Operating System	Windows Server 2008 R2 or later (Windows Server 2012 preferred)
Database Software	<p>SQL Server 2008 R2 or later databases, including SQL Server 2012 and SQL Server 2014 (latest version preferred)</p> <ul style="list-style-type: none">• Dictionary sort order—SQL Server must be installed with case-insensitive dictionary sort order 52 on Code Page 1252 for non-Unicode data. For more information, use the <code>sp_helpsort</code> T-SQL command, which returns the following: <code>Latin1-General, case-insensitive, accent-sensitive, kanatype-insensitive, width-insensitive for Unicode Data, SQL Server Sort Order 52 on Code Page 1252 for non-Unicode data</code>• Collation setting—SQL_Latin1_General_CP1_CI_AS is the required collation setting for AdminStudio database server. It is the only supported collation. <div><p>Note • Before attempting to connect to an existing Microsoft SQL Server, open SQL Server Configuration Manager and make sure that the following three protocols are enabled:</p><ul style="list-style-type: none">• Shared Memory• Named Pipes• TCP/IP</div>

File Share Server

This following table lists the system requirements for the machine that stores Workflow Manager's uploaded source files and the repackaged output files:

Item	Description
Processor	2 GHz or greater
RAM	2 GB or greater
Hard Disk Space	1 TB or greater
Operating System	Windows Server 2008 R2 or later

Workflow Manager End User Computers

This following table lists the recommended system configuration for a Workflow Manager 2015 end user machine:

Item	Description
Browser	<ul style="list-style-type: none">• Microsoft Internet Explorer 9.0 or later• Chrome for Windows 33.0 or later• Firefox for Windows 25.0 or later• Safari for Mac OS X and iOS

Portal Web Server for Intranet Clients

In previous releases of Workflow Manager, if you wanted to use Windows NT authentication for intranet clients, you were required to set up a portal web server. Starting with Workflow Manager 5.6, a portal is no longer required to support Windows NT authentication. You can enable Windows NT authentication directly on the web site.

Single Sign On is only supported when the user that logs into IIS has been imported into the Workflow Manager database using Active Directory. The administrator can either import the complete group or only one user. If a complete group is imported, then all the members of the group can be logged into Workflow Manager using Single Sign On.

The system requirements for this machine are the same as for the [Workflow Manager Web Server / AdminStudio Enterprise Server](#).

Portal Web Server for Internet Clients

For better security and to manage access to the Workflow Manager Web Server, it is recommended to also set up a portal Web server for Internet clients.

If Workflow Manager needs to be accessed over the Internet, it is recommended to set up a portal Web server, residing in a demilitarized zone (DMZ). This Web server:

- accepts the requests from the Internet clients,
- forwards them to the Workflow Manager / AdminStudio Enterprise Server,
- gets responses from the Workflow Manager / AdminStudio Enterprise Server, and
- forwards them to the clients

You can configure the Workflow Manager / AdminStudio Enterprise Server to entertain the request only if it is coming from the Portal Web server, and otherwise reject the request. The Portal Web server manages access to Workflow Manager / AdminStudio Enterprise Server and ensures that clients are not able to access any data or documents without logging in.

The system requirements for this machine are the same as for [Workflow Manager Web Server / AdminStudio Enterprise Server](#).

Workflow Manager System Account Requirements

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**—Must have permission to send e-mail through the SMTP server.
- **Active Directory query permission**—Must have permission to query Active Directory.
- **Local Administrators group member**—If Workflow Manager will be calling any of the AdminStudio Platform APIs in the iPlugin DLL, the AMS_SYSTEM account must be a member of the local Administrators group.

Resolved Issues

This section lists the customer issues that were resolved in Workflow Manager 2015.

Issue Number	Issue Summary
IOJ-1523980	When updating a template that has completed applications, an exception is thrown.
IOJ-1523986	A list of work orders and enhancements should be included in the Workflow Manager release notes.
IOJ-1523989	Users unable to login after upgrade.
IOJ-1524011	Customer requires validation that Workflow Manager allows bidirectional synchronization between regional and corporate application catalogs.
IOJ-1524016	Dates are calculated incorrectly in the Workflow Request Summary Report.
IOJ-1524035	Dynamic pick list displays the Workflow Manager login screen.
IOJ-1524083	Verification on whether disabling ad-hoc query access has any effect on Workflow Manager.
IOJ-1524099	Changing template breaks completed workflow requests.
IOJ-1524119	Toggling the project state from Active to Inactive or vice-versa throws a JavaScript error.
IOJ-1524661	An error is displayed when attempting to edit a project when using the portal.
IOJ-1524664	Request for a new data type in Workflow Manager called Domain User, which would put a combo box on the data entry screens. The list for the combo box would be populated with the names of all of the users in the domain.
IOJ-1524750	Opening the Workflow Manager online help via a secured portal displays an error message about non-secure items when accessed.
IOJ-1524764	When consumers view workflow requests, the project that the workflow request belongs to is not displayed.
IOJ-1524765	A Windows script host error is generated during setup.
IOJ-1524826	Request for additional branding documentation.
IOJ-1524979	Evaluate and tune code and schema to improve performance with large sets of data.
IOJ-1525243	Improve email notification feature.

Issue Number	Issue Summary
IOJ-1525244	Improve the user experience by introducing My AMS Home page.
IOJ-1525542	Date picker returns invalid short date format with non-US region settings.
IOJ-1525568	Date selector in AMS 3.0 returns system short date format instead of in mm/dd/yyyy format.
IOJ-1525574	An error message appears in the data pick list element display
IOJ-1526657	An AdminStudio phase shows 100% complete, even when it is still incomplete in the AdminStudio client.
IOJ-1526947	A tool tip does not show up next to the icon for Workflow Manager data elements.
IOJ-1642143	API calls to set values in a workflow request returns an exception.
IOJ-1660520	The Issues page is truncated, and using the scroll bar does not reveal the entire screen.
IOJ-1661170	Regular expressions associated with data elements that are collected later in the workflow are ignored.
IOJ-1663811	On the Workflow Progress screen, display the Active Directory display name rather than the Active Directory login name.
IOJ-1664695	Request that assigning a workflow family to a workflow request be optional instead of mandatory. Also, request to hide the Workflow Family selection list.
IOJ-1665977	User email addresses longer than 40 digits are not accepted.
IOJ-1700371	Cannot insert notification variables into email subject lines.
IOJ-1700372	The DBDriven data type is converting single vertical quotes into double quotes within the SQL statement.
IOJ-1719964	Modifying a template that is in use causes the completed workflow requests to break with the following error: <i>This constraint cannot be enabled as not all values have corresponding parent values.</i>
IOJ-1722087	Workflow step completion instruction HTML page does not scale.
IOJ-1722626	List view changes are not permanent.
IOJ-1729980	When creating a custom report through the Report Wizard, it does not show any Data Element values in the final report.

Issue Number	Issue Summary
IOJ-1730004	Request that the Company field drop down list be read-only on the Role Details page so that users cannot change the company of an existing role.
IOJ-1730790	Workflow Manager does load any data on Chrome v 43.0.2357.65. and all of the lists grids are empty.
IOJ-1731653	Tool tip does not show up next to the data element when the data for a data group is collected at the later stage of a workflow.
IOJ-1732302	Consumers are permitted to copy a workflow request even when permission is disabled.
IOJ-1733477	Rollback behavior loses check box data types.
IOJ-1737164	Advanced email template shows the body of NormalStep.txt,
IOJ-1737171	A TemplateTree: Page_Load Unknown CType error occurs when accessing templates.
IOJ-1738155	Notification variables are left unresolved in email notifications sent by Workflow Manager.

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