



FLEXERA SOFTWARE™

# Workflow Manager

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## Workflow Manager 5.1 Release Notes

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# Introduction

Workflow Manager is a Web-based data and workflow management system that lets you monitor and control every aspect of your enterprise's software packaging, deployment, and management process. Workflow Manager standardizes the way your software is deployed and managed, ensuring reliable, repeatable results that translate into significantly lower IT costs and TCO.

From employees submitting Application Requests to IT, to IT's preparing and deploying reliable applications, to post-deployment application updating and repair, Workflow Manager facilitates the process while letting you manage it in real time. Workflow Manager also permanently stores all your application-related data, giving IT the information they need to more effectively manage your enterprise's software.

## New Features

Workflow Manager 5.1 includes the following new features:

- [Performance Improvement](#)
- [Authentication for LDAP Users](#)

## Performance Improvement

In Workflow Manager 5.1, WebGrid caching has been introduced, which has resulted in dramatically improved performance times when viewing Workflow Manager WebGrid lists on the **Reports** and **Application Summary** pages.

You can specify cache storage options by editing the `CacheStorage` and `FileServerLocationForCaching` property in the `web.config` file:

```
<!-- Storage type for caching: FileServer/PageCache/Session -->  
<add key="CacheStorage" value="Session"/>
```

```
<!-- WebGrid file server cache location: e.g ~/Cache -->  
<add key="FileServerLocationForCaching" value="~/Cache"/>
```

Enter the following values:

Property	Value
<b>CacheStorage</b>	Specify the location where cache data will be stored: <ul style="list-style-type: none"><li>• <b>FileServer</b>—Stores the cache data in a server (physical hard-disk).</li><li>• <b>PageCache</b>—Store the cache data in the server's memory.</li><li>• <b>Session</b>—Store the cache data in the Session Object. This is the default value.</li></ul>
<b>FileServerLocationForCaching</b>	If you set <b>CacheStorage</b> to <b>FileServer</b> , specify the location of the physical hard disk.

# Authentication for LDAP Users

A new option has been added to the web.config file that enables you to turn on or off the recursive search of LDAP subgroups during user authentication. In previous releases of Workflow Manager, there was no option to turn off recursion, which sometimes resulted in long authentication times.

```
<!--LDAP user search parameter to disable/enable the recursive group search-->  
<add key="RecurssiveGroupSearch" value="True"></add>
```

Enter the following value:

Property	Value
<b>ResurssiveGroupSearch</b>	Set this property to <b>False</b> to disable the recursive search of LDAP subgroups. The default value is <b>True</b> .

## Resolved Issues

The following issues have been resolved in Workflow Manager 5.1:

Issue	Description
<b>IOA-000051852</b>	<b>When defining a Data Element with a Data Type of “Date”, you can now specify a Default Value</b>  When adding a Data Element with a <b>Data Type</b> of <b>Date</b> to a Workflow Template Data Group, you can now specify a <b>Default Value</b> for that date. By default, Workflow Manager sets the <b>Default Value</b> to the current date. To change that date, you can either edit the date in the <b>Default Value</b> field or click on the calendar icon and select the date from a calendar control.
<b>IOA-000051920</b>	<b>When defining a Data Element with a Data Type of “Text Area”, you can now specify a multi-line Default Value</b>  When creating a Data Element with a <b>Data Type</b> of <b>Text Area</b> , you are prompted to enter a <b>Default Value</b> . Previously, the <b>Default Value</b> field only permitted you to enter only one line of text with a limited number of characters. This issue has been resolved and you can now specify a multi-line <b>Default Value</b> .
<b>IOA-000052002</b>	<b>When an Application Request is deleted, the files in its associated File Share folder are now also deleted</b>  In previous releases of Workflow Manager, when an Application Request was deleted, files that had been uploaded to that Application Request’s file share folder were not deleted. This issue has been resolved.

Issue	Description
IOA-000052188	<p data-bbox="581 205 1421 304"><b>When the file share folder for an Application Request is moved or deleted, you are now able to continue to download previously uploaded files</b></p> <p data-bbox="581 325 1421 493">Previously, when the location of the file share folder was moved or deleted, the Download link for previously-uploaded files listed on the <b>Uploaded Files</b> tab of the <b>Application Progress</b> page was not displayed. This issue has been resolved: the uploaded files are now still available for download if the previous location of the uploaded files is still valid.</p>
IOA-000052614	<p data-bbox="581 527 1421 594"><b>Workflow Manager's now displays user First and Last names, instead of just user IDs</b></p> <p data-bbox="581 615 1421 751">In Workflow Manager, the logged-in user's first and last name is now displayed instead of their user ID. Also, users' full names are displayed on the Assignment Details page, and in Search Results listings. Also, when importing Active Directory users, you can now search by full name rather than user ID.</p>
IOA-000052728	<p data-bbox="581 785 1421 812"><b>SQL Injection vulnerability on Password reset page has been resolved</b></p> <p data-bbox="581 833 1421 898">An SQL Injection vulnerability that existed on the Password reset page has been resolved.</p>
IOA-000052822	<p data-bbox="581 932 1421 999"><b>Default links on the My Page area of the Workflow Manager Home page have been updated</b></p> <p data-bbox="581 1020 1421 1119">Default links to the Flexera Software Web site and the Flexera Software Support site in the <b>My Page</b> area of the Workflow Manager Home page have been updated.</p>
IOA-000052858	<p data-bbox="581 1152 1421 1251"><b>After Workflow Templates are migrated from Workflow Manager 4.0 to 5.0, Phases/Steps and Data Groups/Elements are now displayed correctly</b></p> <p data-bbox="581 1272 1421 1409">Previously when Workflow Templates were migrated from version 4.0 to 5.0, there was a problem with the conversion of line ending characters which caused the Workflow Template to be displayed improperly. This issue has been resolved.</p>
IOA-000052893	<p data-bbox="581 1442 1421 1541"><b>When a browser's language is changed, Workflow Manager now updates the format it uses to display dates to match the selected language</b></p> <p data-bbox="581 1562 1421 1698">Previously, Workflow Manager displayed dates in the format that they were originally entered, even after the language of a browser was changed. This issue has been resolved and dates are now displayed in the proper format for the selected browser language.</p>

Issue	Description
IOA-000053170	<p data-bbox="581 205 1421 304"><b>When a Workflow Template that is already in use is updated, Application Requests that use that Template now display Workflow Steps properly</b></p> <p data-bbox="581 325 1421 457">Previously, when you modified a Workflow Template that was already in use, Application Requests using that Template that were previously submitted did not display any Workflow Steps. This issue has been resolved, and Workflow Steps are now displayed properly.</p>
IOA-000053296	<p data-bbox="581 499 1421 598"><b>After upgrading from Workflow Manager 4.0 to 5.0, Data Elements with a Data Type of Dynamic Pick List now retain their original Data Source File selection</b></p> <p data-bbox="581 619 1421 779">Previously, after upgrading from Workflow Manager 4.0 to 5.0, the <b>Data Source File</b> selection for Data Elements that had a <b>Data Type</b> of <b>Dynamic Pick List</b> was reset to the first XML file listed in the folder rather than the original selection. This issue has been resolved and the original <b>Data Source File</b> selection is retained.</p>
IOA-000053993	<p data-bbox="581 821 1421 884"><b>Serial numbers issued for the original version of Workflow Manager 5.0 will now work with subsequent updated releases of Version 5.0</b></p> <p data-bbox="581 905 1421 1003">Previously, a serial number distributed with Workflow Manager 5.0 would not work after you upgraded to version 5.01, 5.02, etc. This issue has been resolved and 5.0 serial numbers will now work for updated versions of 5.0.</p>
IOA-000054453	<p data-bbox="581 1045 1421 1108"><b>When changing an AdminStudio Enterprise Server user password, you are now prompted to confirm the new password</b></p> <p data-bbox="581 1129 1421 1289">Previously, when changing a user password for an AdminStudio Enterprise Server user, you were not prompted to confirm the password by entering it a second time, which could result in unknown passwords being entered. This issue has been resolved and you are now prompted to confirm the new password by entering it a second time.</p>
IOA-000054511	<p data-bbox="581 1331 1421 1394"><b>When upgrading from Workflow Manager 4.0 to 5.0, the XML files associated with Dynamic Pick Lists are no longer parsed incorrectly</b></p> <p data-bbox="581 1415 1421 1577">Previously, when upgrading from Workflow Manager 4.0 to 5.0, certain characters (such as ampersands) in the XML files associated with Dynamic Pick Lists were parsed incorrectly. For example, a value of <code>AT&amp;T</code> was parsed as <code>AT&amp;amp;T</code>. This issue has been resolved and the XML data is now parsed correctly.</p>
IOA-000056232	<p data-bbox="581 1619 1421 1682"><b>When upgrading Application Catalogs from previous releases, data is no longer being truncated in nText column values</b></p> <p data-bbox="581 1703 1421 1835">When you connect to an Application Catalog created with a version of AdminStudio prior to 9.5, you are prompted to upgrade the database. When doing so, the nText column values in the database were being truncated to 4000 bytes. This issue has been resolved and the data is no longer truncated.</p>

Issue	Description
IOA-000056389	<p data-bbox="589 212 1403 302"><b>You can now download uploaded files associated with existing Application Requests even after changing the File Share value in the web.config file</b></p> <p data-bbox="589 329 1403 491">Previously, when you changed the File Share path in the web.config file, the status of uploaded documents for existing Application Requests would be displayed as deleted, making it impossible to download them. This issue has been resolved; the files are now marked as External and are available for download if the download location is valid.</p>
IOC-000044020	<p data-bbox="589 533 1273 554"><b>Upload button is now disabled during the upload process</b></p> <p data-bbox="589 581 1403 711">Previously, during the upload process, the <b>Upload</b> button was enabled, making it possible to click the button a second time. This caused multiple copies of the same file to be uploaded. This issue has been resolved and the <b>Upload</b> button is now disabled during the upload process.</p>
IOC-000062601	<p data-bbox="589 753 1403 844"><b>When exporting a list of issues with the Show All Data option selected, all issues are now exported, not just those submitted by the currently logged-in user</b></p> <p data-bbox="589 871 1403 1068">When you click <b>View Issues</b> on the Workflow Manager Home page, the <b>Issues List</b> page opens and displays a list of issues you submitted. When you select the <b>Show All Data</b> option on this page, all submitted issues are displayed. However, if you then chose to export data from this list, only issues that you submitted were being exported, even though the <b>Show All Data</b> option was selected. This issue has been resolved.</p>
IOC-000076542	<p data-bbox="589 1110 1203 1131"><b>LDAP Users don't have assignment numbers shown</b></p> <p data-bbox="589 1159 1403 1320">When LDAP users are displayed on the <b>Assignment Details</b> page, the number of assignments displayed in the <b>Applications</b> column for that user was always displayed as 0, even though the user had one or more assignments. This issue has been resolved and the number of Applications assigned are now displayed correctly for LDAP users.</p>
IOC-000076639	<p data-bbox="589 1362 1403 1453"><b>You can now choose to open Application Progress page for an Application Request by clicking link on Workflow Manager Home Page</b></p> <p data-bbox="589 1480 1403 1680">Currently, when you click on an Application Request name in the <b>Assignments</b> area of the Workflow Manager Home Page, the <b>Assignment Details</b> page opens. While certain customers prefer this current behavior, some would prefer to open the Application Progress page for that Application Request. Workflow Manager now provides a configuration option in the web.config file that enables you to change this behavior:</p> <ul data-bbox="589 1707 1403 1772" style="list-style-type: none"> <li data-bbox="589 1707 1403 1728">● <b>Assignment Details</b>—Set <code>showApplicationProgress</code> to <b>1</b>.</li> <li data-bbox="589 1749 1403 1772">● <b>Application Progress</b>—Set <code>showApplicationProgress</code> to <b>0</b>.</li> </ul>

Issue	Description
<b>IOC-000079704</b>	<b>Viewing Dynamic Pick List for a second, different XML file is corrupt</b>  Previously, the persistence of WebGrid modifications caused issues in displaying a Dynamic Pick List because the column names were different across two different XML files. Persistence has now been turned off, resolving this issue.
<b>IOC-000082138</b>	<b>When a Project Name is changed, Workflow Steps are now displayed correctly for completed Application Requests</b>  Previously, when the name of a Project was changed, the Workflow Steps on completed Application Requests were no longer displayed. This issue has been addressed and the Workflow Steps are now displayed properly.

# System Requirements

This section lists the requirements for AdminStudio Workflow Manager 5.1 machines.

## Workflow Manager End User Computers


This section lists the requirements for AdminStudio Workflow Manager 5.1 machines:

Item	Description
<b>Processor</b>	400 MHz or higher Pentium-compatible CPU (Recommended)
<b>Browser</b>	Microsoft Internet Explorer 5.5 or later
<b>RAM</b>	256 MB or more RAM (Recommended)

## Application Catalog Database Server

The recommended system configuration for a database server to store AdminStudio application catalog databases is:

Item	Description
<b>Processor</b>	32-bit (x86) or 64-bit (x64) processor at 1 GHz or greater
<b>RAM</b>	512 MB or greater (1 GB preferred)
<b>Hard Disk Space</b>	80 GB or greater
<b>Operating System</b>	Windows Server 2003 or later
<b>Database Software</b>	AdminStudio supports SQL Server databases. SQL Server 2000 (with the latest Service Pack) is the minimum requirement, but SQL Server 2005 or later is highly recommended. SQL Server must be installed with case-insensitive dictionary sort order and ISO-8859-1 character set (use <b>sp_helpsort</b> T-SQL command for more information).

 **Note** • Starting with AdminStudio 9.01/Workflow Manager 5.0, Oracle databases are no longer supported. If you are upgrading an installation of Workflow Manager that used an Oracle database, you will be alerted that Oracle is no longer supported. You will then have the opportunity to continue the install and specify the location of a new SQL Server database or to exit the installation.

# AdminStudio Web Server

This Web server hosts the Workflow Manager Data Web service and the actual Workflow Manager Web site.

Item	Description
<b>Processor</b>	32-bit (x86) processor at 1 GHz or greater
	<i>Note • Workflow Manager runs on 32-bit Windows operating systems only.</i>
<b>RAM</b>	512 MB or greater (1 GB preferred)
<b>Hard Disk Space</b>	30 GB or greater
<b>Operating System</b>	Windows Server 2003 or later
<b>IIS</b>	IIS 5.0 or IIS 6.0
	<i>Note • AdminStudio Web Server also supports IIS 7.0 if IIS 6.0 compatibility mode is turned on.</i>
<b>.NET</b>	.NET Framework 2.0 (including ASPNET 2.0 registered with IIS)
<b>MSXML</b>	MSXML 4.0
<b>Running on a Domain Controller</b>	If running on a domain controller, you will have to implement one of the procedures described in the Microsoft Developer Network topic <a href="#">Running ASP.NET on a Domain Controller</a> , available at:  <a href="http://msdn2.microsoft.com/en-us/library/aa579070.aspx">http://msdn2.microsoft.com/en-us/library/aa579070.aspx</a>

# File Share Server

This machine stores the uploaded source files and the repackaged output files:

Item	Description
<b>Processor</b>	512 MHz or greater
<b>RAM</b>	512 MB or greater
<b>Hard Disk Space</b>	60 GB or greater
<b>Operating System</b>	Windows Server 2003 or later

## Portal Web Server for Internet Clients

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

- accepts the requests from the Internet clients,
- forwards them to the AdminStudio Web Server,
- gets responses from the AdminStudio Web Server, and
- forwards them to the clients

You can configure the AdminStudio Web 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 the AdminStudio Web 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 the AdminStudio Web Server.

## Portal Web Server for Intranet Clients

For better security, and to manage access to the AdminStudio Web Server, it is recommended to also set up a portal Web server for Intranet clients. If you would like to make use of the Single Sign On feature, you are required to install the Intranet Portal with NT Authentication mode of IIS directory security (by unselecting **Anonymous Authentication** and selecting **Integrated Windows Authentication**).

Single Sign On is only supported when the user that logs into IIS has been imported into the AdminStudio Enterprise Server 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 AdminStudio Enterprise Server using Single Sign On.

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

## Known Issues

For a complete list of known issues that pertain to the Workflow Manager 5.1 release, see the AdminStudio Support [Knowledge Base](#).