

FlexNet Operations 2021.12 ALM Release Notes

December 2021

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Introduction

This Release Notes document summarizes the features, enhancements, and updates delivered with FlexNet Operations 2021.12 in December 2021. The document includes the following information:

- [Resources](#)
- [Features and Enhancements](#)
- [System Requirements](#)
- [Resolved Issues](#)
- [Known Issues](#)
- [Special Notes](#)
- [Legal Information](#)

Resources

These resources are available for more information about FlexNet Operations and other Revenera products:

- [Revenera Resources](#)
- [FlexNet Operations Videos](#)
- [Previous FlexNet Operations Release Notes](#)

Revenera Resources

The following resources can help you stay up to date with FlexNet Operations news and product knowledge:

- In addition to providing case management, the [Revenera Community](#) site can help you 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 Revenera's product solutions, you can access forums, blog posts, and knowledge base articles. You can also access the Product and License Center from the Community's **Other Resources** menu to download Revenera products.
- You can find documentation for FlexNet Operations and all other Revenera products on the [Revenera Product Documentation](#) site.
- The [Revenera Learning Center](#) offers free, self-guided, online videos to help you quickly get the most out of your Revenera products. You can find a complete list of these training videos in the Learning Center.
- Customers who have purchased a maintenance contract for their product(s) can submit a support case or check the status of an existing case by making selections on the **Get Support** menu of the Revenera Community:

<https://community.revenera.com>

FlexNet Operations Videos

These brief, informative videos walk you through the getting-started exercises found in the *FlexNet Operations User Guide* (online help or PDF version). We recommend that you first read the appropriate “Getting Started” section in the *User Guide* to gain an understanding of the concepts it covers, and then click the section title in the table below to view the video.

Guide	Topics
Getting Started with Entitlement Management	Creating an account, a user, a product, and an entitlement.
Getting Started with FlexNet Embedded Licensing	Setting up a publisher, identity, and a licensed product. Creating a device and activating its license. Creating and provisioning FlexNet Embedded license servers.
Getting Started with Electronic Software Delivery	Creating a producer and download packages, associating download packages with a product, creating files, associating files with download packages, and viewing and downloading files from the FlexNet Operations End-User Portal.
Getting Started with Usage Management	Creating a usage-based license model, a feature, a product, and an entitlement. Obtaining the license server URL to which the usage data is sent. Running a usage-capture client. Viewing usage information graphs and gauges.
Getting Started with FlexNet Publisher License File-Based Licensing	Activating and returning a certificate license.
Getting Started with Cloud Licensing Service	Creating a cloud-hosted license server.
Getting Started with FlexNet Customer Growth	Customer growth concepts and configuring notifications for expiring entitlements and expired entitlements.

Previous FlexNet Operations Release Notes

To access the release notes associated with previous FlexNet Operations ALM releases, do either of the following:

- To view all the release notes for 2021 ALM releases, access this location:
<https://docs.reverera.com/?product=FlexNet%20Operations&version=CURRENT>
- To view the release notes associated with FlexNet Operations versions from previous years, access the following site and select the appropriate year.
<https://docs.reverera.com/?product=FlexNet%20Operations>

Features and Enhancements

The following sections describe the new features and enhancements added to FlexNet Operations in 2021:

- [Features and Enhancements in 2021.11](#)
- [Features and Enhancements in 2021.10](#)
- [Features and Enhancements in 2021.09](#)
- [Features and Enhancements in 2021.08](#)
- [Features and Enhancements in 2021.07](#)
- [Features and Enhancements in 2021.06](#)
- [Features and Enhancements in 2021.05](#)
- [Features and Enhancements in 2021.04](#)
- [Features and Enhancements in 2021.03](#)
- [Features and Enhancements in 2021.02](#)
- [Features and Enhancements in 2021.01](#)

Features and Enhancements in 2021.11

Features and enhancements were added to the following areas of FlexNet Operations in the 2021.11 release:

- [Device Management Enhancements in 2021.11](#)
- [Entitlement Management Enhancements in 2021.11](#)
- [License Management Enhancements in 2021.11](#)
- [Reporting Enhancements in 2021.11](#)

Device Management Enhancements in 2021.11

The following enhancement for the management of devices was added in the 2021.11 release.

Device ID Now Hyperlinked

Previously, a device's **Name** value on the **Devices** page list was hyperlinked to the **Device Details** page. Now, a device's **ID** value in the list on this page is also hyperlinked to the **Device Details** page. This enhancement enables producers to hide the **Device Name** (for security purposes, for example) while still providing users access to the **Device Details** page through the **ID** hyperlink.

Entitlement Management Enhancements in 2021.11

The following enhancement to entitlement management was added in the 2021.11 release.

Licenses Associated with Line Items Inactivated or Obsoleted through “setEntitlementState” SOAP Request Now Automatically Removed from CLS Instances

The previous release introduced a new feature that automatically removes any unused concurrent and metered licenses associated an entitlement line item whenever the state of that line item is changed to inactive or obsolete through a **setLineItemState** SOAP request. (Any currently in-use licenses associated with the line item are automatically removed from the CLS instances once users return the licenses.)

This feature is now extended to a **setEntitlementState** SOAP request.

As in the previous release, this feature requires that the configuration option **Remove licenses from CLS when line item state is changed to Inactive/Obsolete** be selected and that **Allow used entitlement/line item state change to Inactive or Obsolete** be *unselected*. (Both options are found under **System > Configuration > FlexNet Operations > General Options** in the Producer Portal.)

License Management Enhancements in 2021.11

The following enhancement to license management was added in the 2021.11 release.

New Configuration Option to Batch-Rehost All Fulfillments

Currently, during a Batch Rehost process, if a producer selects to rehost fulfillments from more than 10 line items belonging to the same entitlement, a maximum of 10 fulfillments is rehosted. This limit can cause an issue when a producer wants to rehost all fulfillments on a given host and the host is activated with an entitlement that has more than 10 line items.

The following configuration option has been added in this release to enable a producer to rehost *all* available fulfillments for an entitlement during a Batch Rehost. (The 10-fulfillment limit is not exercised.)

System > Configure > FlexNet Operations > General Options > Process all line items in an Entitlement during Batch Rehost

This option applies to FlexNet Publisher fulfillments only.

Reporting Enhancements in 2021.11

The following reporting enhancement was added in the 2021.11 release.

New Reporter Menu Option Available

A single **Reports** menu option is now displayed in the Producer Portal, providing access to the new Reporter (version 4.2). Two options were previously displayed as FlexNet Operations transitioned from the old Reporter version to the new.

For more information about the new Reporter, refer to the latest [FlexNet Operations Reporter User Guide](#).

Features and Enhancements in 2021.10

Features and enhancements were added to the following areas of FlexNet Operations in the 2021.10 release:

- [Entitlement Management Enhancements in 2021.10](#)
- [SOAP and REST Web Services Enhancements in 2021.10](#)

Entitlement Management Enhancements in 2021.10

The following enhancement to entitlement management was added in the 2021.10 release.

Licenses Associated with Inactive or Obsolete Line Items Automatically Removed from CLS Instances

When the state of an entitlement line item is changed to inactive or obsolete, any unused concurrent or metered licenses associated with the line item can now be automatically removed from those CLS instances to which the line item is mapped. Any currently in-use licenses associated with the line item are automatically removed from the CLS instances once users return them.

The automatic removal of licenses occurs when the line item is made inactive or obsolete using a **setLineItemState** SOAP request *and* the new configuration option **Remove licenses from CLS when line item state is changed to Inactive/Obsolete** is selected. (This new option is found under **System > Configuration > FlexNet Operations > General Options**.)



Important - If you select this option, ensure that the **Allow used entitlement/line item state change to Inactive or Obsolete** configuration option (also located in the **General Options** category) is **not** selected.

SOAP and REST Web Services Enhancements in 2021.10

The following enhancement to the Web Services module was added in the 2021.10 release.

New Data Access API Lockout Policy

A new policy is now enforced in which a user ID (excluding the ID for a System or Super Administrator) is locked out of a Data Access API after 5 invalid authentication attempts. The user must wait 30 minutes after the last attempt before trying to access the API again. (The option to reset the password to bypass the lockout period is not available when the user has been blocked through a Data Access API.)

This policy is part of an ongoing effort to enhance overall FlexNet Operations security.

Features and Enhancements in 2021.09

Features and enhancements were added to the following areas of FlexNet Operations in the 2021.09 release:

- [Download Package Management Enhancements in 2021.09](#)
- [SOAP and REST Web Services Enhancements in 2021.09](#)

Download Package Management Enhancements in 2021.09

The following enhancements to the management of package downloads were added in the 2021.09 release:

- [Download Package Selection Across Pages in the End-User Portal](#)
- [Custom Activation ID Attribute for Entitlement Line Items Now Displayable on Download Order Page](#)

Download Package Selection Across Pages in the End-User Portal

In previous releases, users in the End-User Portal could select packages to download from only the current page in the **Download Packages** window; package selections on other pages were not processed during the download. If users wanted to download packages listed on other pages, they were forced to perform downloads one page at a time.

In this release, users can now download packages selected across pages. The following mechanisms were added to support this feature.

Package Selection on a Given Page

In the grid that lists the download packages for a specific page, a tool tip is now displayed when you hover over the “check box” column in the grid header, stating “Click to select all items on this page”.

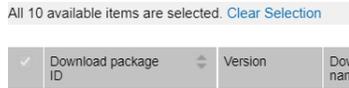
Package Selection Across Pages

The following mechanisms are introduced to help in the selection of packages across pages.

- As you select packages across individual pages, a message above the grid updates to the number of currently selected packages out of the total number of all available packages (across all pages). The message also provides the option to select all the available packages.



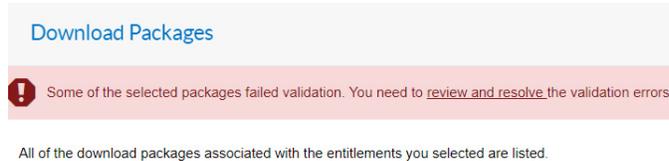
- If you click **Select all *n* items available** to select all packages, all packages (and files in those packages) are selected on every page. However, once you click this option, you cannot unselect specific packages or files within those packages. To make individual selections, you must click the **Clear Selection** toggle and reselect specific packages (and specific files in those packages).



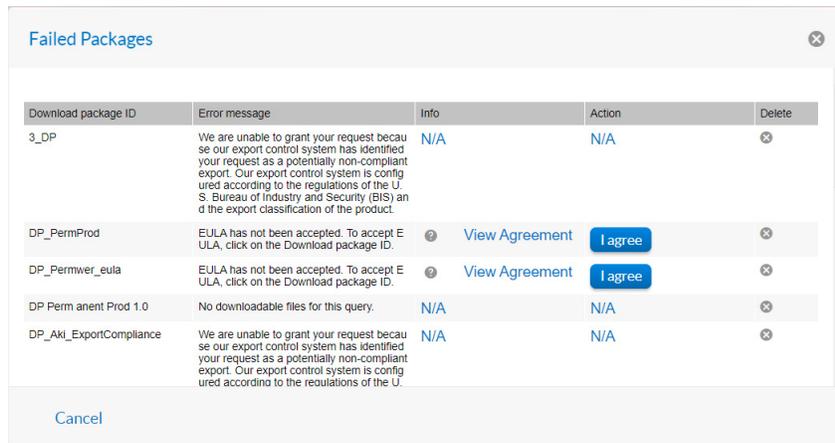
Download Validation

When you click **Download** to start the package download process, the packages are first validated. The following new mechanisms assist in managing the package validation phase of the download, especially when multiple packages have been selected across pages.

- If any packages fail validation, the following error message is now displayed.



- You can click **review and resolve** in the message to open the **Failed Packages** window, listing the packages that failed validation. If an action is available to remediate the validation error for a listed package (for example, agree to an EULA that had not yet been accepted), you can perform that action directly from the window. If no action is available, you can choose to remove the package from the download process. The option to cancel the entire download process is also available.



Custom Activation ID Attribute for Entitlement Line Items Now Displayable on Download Order Page

Existing functionality has enabled producers to create a custom attribute for entitlement line items and use this attribute in place of the **Activation ID** (by hiding the default **Activation ID** attribute) on the **List Entitlements** window in the End-User Portal. However, producers were not able to make a similar replacement on the **Download Order** window (which is displayed when the user clicks **Download Now** for a line item on the **List Entitlements** window).

In this release, FlexNet Operations can now automatically replace the **Activation ID** property on the **Download Order** page with the custom activation ID attribute (such as used on the **List Entitlements** window). To accomplish this, an administrator sets the following new configuration option with the name of the custom activation ID attribute:

System > Configure > End-User Portal Setup > DownloadOrderPage > Show Custom Activation ID
<custom_attribute_name>

The custom activation ID attribute now shown on the **Download Order** window is automatically populated with the value assigned to the entitlement line item corresponding to the order. Refer to the following table for exceptions to this behavior:

Value of custom activation ID attribute for a given entitlement line item	Custom attribute is/is not designated for “Show Custom Activation ID”	Activation ID item displayed on Download Order window for line item
Any <value> other than “Not Applicable” and “Not Required”	Designated	The custom activation ID attribute with the value <value>. This replaces the Activation ID property and its value.
“Not Required”	Designated	The custom activation ID attribute with the “Not Required” value. This replaces the Activation ID property and its value.
“Not Applicable”	Designated	The Activation ID property and its value.
No value	Designated	The Activation ID property and its value.
Any <value> or no value	Not designated	The Activation ID property and its value.

SOAP and REST Web Services Enhancements in 2021.09

The following enhancement to the Web Services module was added in the 2021.09 release.

New “length” Property for Fields in Data Access API Responses

A length property for fields has been added to the model section of responses from Data Access APIs. Users who want to replicate the data into their own data warehouse using these APIs now have information about the size of fields they should define.

Note that the size of these fields might increase in the future.

Features and Enhancements in 2021.08

Features and enhancements were added to the following areas of FlexNet Operations in the 2021.08 release:

- [Download Package Management Enhancements in 2021.08](#)
- [Reporting Enhancements in 2021.08](#)

Download Package Management Enhancements in 2021.08

The following enhancement to the management of download packages was added in the 2021.08 release.

Geographic Restrictions for Downloading Packages (Beta)

A new feature that restricts downloads to a geographic location is now available as beta. Producers can now try this feature in their test environment (but should be aware of the issues associated with the feature, as detailed in [Known Issues](#)). This feature helps ensure that software approved for a specific location (country or country/region) can be downloaded by accounts only in that location.

The **Restrict Download Package** page (accessed from the **View Download Package** page in the Producer Portal) now enables producers to add countries or specific regions in countries to which the download package will be available. In the End-User Portal, only users in those accounts assigned to these geographic locations will have access to the download, even if the accounts are otherwise entitled to the download.



Note - The geographic restrictions are in addition to the existing Grant or Deny Account Access restrictions available on the **Restrict Download Package** page. Accounts must meet both sets of restrictions in order to access the download package.

Reporting Enhancements in 2021.08

The following reporting enhancement was added in the 2021.08 release.

Reporter Upgrade

The legacy Reporter is now disabled. Users must use Reporter 4.2 (available through the **Reports (New)** menu option) to access their report data. The **Reports** menu option, previously used to access the legacy Reporter, will be removed from the Producer Portal in a future release. Until then, attempts to access the legacy Reporter through this option will result in an error message.

For more information, refer to the [FlexNet Operations Reporter 4.2 Overview](#) Knowledge Base article.

Features and Enhancements in 2021.07

Features and enhancements were added to the following areas of FlexNet Operations in the 2021.07 release:

- [Device Management Enhancements in 2021.07](#)
- [Electronic Software Delivery Enhancements in 2021.07](#)

Device Management Enhancements in 2021.07

The following enhancement to device management was added in the 2021.07 release.

Ability to Modify Metered License Counts on Cloud License Servers

In this release, it is now possible to change the counts of metered licenses mapped to Cloud license servers. This enhancement enables producers and end customers to increase, decrease, or completely remove the number of licenses mapped to a license server, within the count of licenses specified in an entitlement line item.

This feature is available through the UI only, not through Web Services.



Note - *It is not possible to modify counts of metered licenses mapped to local license servers.*

Electronic Software Delivery Enhancements in 2021.07

Support for the delivery of containerized software is now available in the Electronic Software Delivery module in 2021.07. To enable this support, contact your Revenera representative.

Support for Containerized Software

In addition to distributing file-based software installers and updates, Electronic Software Delivery can now be used to distribute software applications that run in Docker containers and are deployed using Helm charts.

Management of Containerized Products

Like download files, producers distribute containerized applications by associating them with a download package. However, containerized applications are not stored in the FlexNet Operations database, but in a separate registry that is hosted by Revenera. Producers manage containerized applications by associating them with a download package in FlexNet Operations, and by tagging and pushing them to their corresponding project in the Revenera registry using a Docker or Helm client.

For more information about managing containerized applications, refer to the *FlexNet Operations User Guide*.

Distribution of Containerized Applications

Entitled customers can view the download packages and any associated Docker images or Helm charts in the End-User Portal. The End-User Portal also provides the path and pull command for downloading an image or chart directly from the registry. Customers must have a Docker or Helm client installed to be able to pull images or charts from the registry.

For more information about viewing and downloading packages for containerized applications, refer to the *FlexNet Operations End-User Portal Help Library*.

Features and Enhancements in 2021.06

Features and enhancements were added to the following areas of FlexNet Operations in the 2021.06 release:

- [Download Package Management Enhancements in 2021.06](#)
- [Electronic Software Delivery Enhancements in 2021.06](#)
- [Entitlement Management Enhancements in 2021.06](#)
- [License Management Enhancements in 2021.06](#)

Download Package Management Enhancements in 2021.06

The following enhancement to the management of download packages was added in the 2021.06 release.

SHA2 Checksum Available for Uploading Files

Previously, when preparing to upload a file for association with a download package, producers could provide the file's expected MD5 value on the **Upload File** page. This value was then compared with the MD5 of the file once it was uploaded to ensure that the file had not changed during the upload.

Producers can now also provide the file's expected SHA2 checksum value when performing an upload. They can provide both the SHA2 and the MD5 values or one or the other value to ensure that the pre-uploaded file and uploaded file are the same. Note that this SHA checksum option is available only when performing an HTTP or FTP upload (from the **HTTP Upload** or **FTP Upload** tab, respectively).

Electronic Software Delivery Enhancements in 2021.06

The following enhancements to Electronic Software Delivery (ESD) were added in the 2021.06 release.

Downloads Now Visible in End-User Portal for Users Who Reset Their Passwords

Previously, if an end-user's account was deactivated due to multiple invalid login attempts and the user then reset their password, the Electronic Software Delivery module was not made aware of this account change. As a result, in the End-User Portal, the user could no longer view downloads associated with entitlements to which that user had access. Electronic Software Delivery will now be made aware of such changes, so that end users can continue to access downloads.

“Download Packages” Page Now Accessible for Multiple Selected Entitlement Line Items Belonging to Different Accounts

Prior to this release, when a user in the End-User Portal selected multiple entitlement line items belonging to various accounts and then clicked **View > View Download Packages**, the following error message was displayed: “The selected activation ids should belong to the same account Id.” The **Download Packages** page was not opened.

Now, when the user selects this option for multiple lines items belonging to various accounts, no error message is displayed. Instead, the **Download Packages** page is opened, enabling the user to view and download packages associated with these accounts. A dropdown above the grid on the page lets the user select the account for which to list download packages.

“Download Packages” Page Now Accessible for Multiple Selected Entitlement Line Items When Some Items Have No Downloads

Previously, when a user in the End-User Portal selected multiple entitlement line items—one or more of which had no associated download package—and then clicked **View > View Download Packages**, the following error message was displayed: “Some of the activation ids selected do not have download packages.” The **Download Packages** page was not opened.

Now, when the user selects this option for multiple lines items, some of which do not have associated download packages, no error message is displayed. Instead, the **Download Packages** page is opened, showing the download packages for those selected line items that have packages. However, if none of the selected line items are associated with download packages, the error message is displayed.

Entitlement Management Enhancements in 2021.06

The following enhancement to entitlement management was added in the 2021.06 release.

Improved User Experience When Attempting to View Download Packages for Entitlements Without Associated Downloads

Users on the **List Entitlements** page in the End-User Portal can select **View > View Download Packages** to view and download the download packages associated with multiple entitlement line items currently selected on the **List Entitlements** page.

Previously, if any of the selected line items were not associated with a download package, users received a error message, forcing them to deselect those line items that had no associated download packages before they could proceed to view the download packages for those items that had. (Entitlement line items that have an associated download show a **Download Now** link in the **Downloads** column on the **List Entitlements** page.)

Now, when users select to view the download packages for multiple line items, some of which do not have an associated download, the **Download Packages** window proceeds to open, listing the downloads for only those line items that have associated downloads. The previous error message that prevented users from proceeding to view the **Download Packages** window is no longer presented.

If none of the selected line items have associated download packages, a pop-up message on the **List Entitlements** page lets you know.

License Management Enhancements in 2021.06

The following enhancement to license management was added in the 2021.06 release.

Search Filters in End-User Portal Enhanced to Obtain Active Fulfillments

The **List Licenses** page in the End-User Portal now provides additional **Advanced Search** filters that can be used to obtain a list of all active license fulfillments. This can be useful, for instance, when consolidating fulfillments because all fulfillments consolidated must be active. To obtain this list, users will need to use a combination of the new fulfillment **State** filter (**Active**) and the new **Line Item State** filter (**Deployed**).

Features and Enhancements in 2021.05

Features and enhancements were added to the following areas of FlexNet Operations in the 2021.05 release:

- [Device Management Enhancements in 2021.05](#)
- [Entitlement Management Enhancements in 2021.05](#)

Device Management Enhancements in 2021.05

The following enhancement to device management was added in the 2021.05 release.

Site Name Now Editable After Device Creation

The **Site Name** property for a standalone or server device enables the user to identify a sub-section of a company account, such as the location to which a device is delegated. Previously, this field was available when creating the device. However, once the device was created, users could no longer edit this value.

In this release, the **Site Name** field is now editable after a device is created in either the Producer Portal or the End-User Portal. To allow editing of this field in the End-User Portal, the system administrator must select the new configuration setting, **Allow site name editing**, under **System > Configure > End-User Portal Setup > Devices Page**. Note that this setting is processed only when the **Display Site Name in device pages** configuration option is also selected.

Entitlement Management Enhancements in 2021.05

The following enhancement to entitlement management was added in the 2021.05 release.

Entitlement Search by Contact Email Address

Users can now filter entitlements by the email address of the contact associated with the sold-to account for entitlements. The following new items are available to enable the use of this new filter:

- A new **Contact Email** option in the **Search for** field on the **List Entitlements by Order** page
- A new optional **contactEmail** parameter for the **getEntitlementsQuery** method in the V4 **EntitlementOrderService** web service.



Note - For partner accounts, the search base on the contact email address works for those accounts that belong to the **endCustomer** tier type.

Features and Enhancements in 2021.04

Features and enhancements were added to the following areas of FlexNet Operations in the 2021.04 release:

- [Email Notification System Enhancements in 2021.04](#)

Email Notification System Enhancements in 2021.04

The following enhancement was added to the Email Notification system in 2021.04.

Support for Account-level Custom Attributes in Entitlement, Entitlement Certificate, and Reset Password Email Templates

The Entitlement, Entitlement Certificate, and Reset Password email templates now support account-level custom attributes. One or more of the custom attributes can be used to define conditions in the template that control the content sent to the users of different accounts. The templates include FOR-EACH tags that can be used to iterate through the accounts to read the values of the custom attributes.

Features and Enhancements in 2021.03

Features and enhancements were added to the following areas of FlexNet Operations in the 2021.03 release:

- [Entitlement Management Enhancements in 2021.03](#)

Entitlement Management Enhancements in 2021.03

The following enhancement to entitlement management was added in the 2021.03 release.

Multiple Package Downloads from Entitlement List in End-User Portal

Previously, users were required to perform software downloads for entitlement line items on the **List Entitlements** page one line item at a time. In this release, users can now perform software package downloads for multiple line items selected on the **List Entitlements** page or opt to download selected files within a given download package. (All selected entitlement line items must belong to the same account and have downloads available.)

To initiate the download process, users select the new **View > View Download Packages** option on the **List Entitlements** page. This option opens the **Download Packages** window, enabling users to view a list of the software download packages available for the selected line items and then download selected (or all) packages. Alternatively, users can click a package link from this window to obtain a list of all the files contained in the package, and, from this list, select specific (or all) files to download. Compliance checks are performed before any download starts.

Users must have the existing **Get Downloads** permission to perform these software downloads.

The new **View Download Packages** option is not visible by default, but is enabled by means of a new system configuration setting in the Producer Portal, **System > Configure > End-User Portal Setup > Entitlements Page > Show View Download Packages**.

Similarly, the button to download all files for selected packages directly from the **Download Packages** window is enabled by a separate system configuration setting, **System > Configure > End-User Portal Setup > General Options > Show Download Button**. This setting is applied only if the previously described **Show View Download Packages** option is enabled.

Features and Enhancements in 2021.02

Features and enhancements were added to the following areas of FlexNet Operations in the 2021.02 release:

- [SOAP and REST Web Services Enhancements in 2021.02](#)

SOAP and REST Web Services Enhancements in 2021.02

The following enhancement to the Web Services module was added in the 2021.02 release.

New Data Access REST Interface

This release introduces a new set of Data Access REST APIs that enable producers to capture a complete view of FlexNet Operations data for their tenant.

Current data-extraction APIs capture only incremental information from the FlexNet Operations warehouse, which is hosted and maintained by Flexera. To obtain a complete view of the data for reporting purposes, producers must host and maintain an archive of the data warehouse in their own database, regularly extracting data from the FlexNet Operations data warehouse and merging it with the archive to keep the data up to date.

Using the new APIs, however, producers can now extract data for their tenant from any time period (within a 30-day range) *directly* from the FlexNet Operations data warehouse, eliminating the need to maintain an archive. Additionally, these APIs offer an alternative to the existing FlexNet Operations Reporter tool, providing programmatic access to data and a standard interface on which it is possible to build custom reporting tools and integrate the data into any web or mobile application.

These APIs retrieve data related to the following:

- Accounts
- Users
- Entitlements

- Fulfillments
- Devices
- Served devices

For more information about the new Data Access REST APIs, refer to the *FlexNet Operations Web Services Integration Guide*.

Features and Enhancements in 2021.01

Features and enhancements were added to the following areas of FlexNet Operations in the 2021.01 release:

- [Entitlement Management Enhancements in 2021.01](#)
- [Export and Import Enhancements in 2021.01](#)
- [Updates and Insights Enhancements in 2021.01](#)
- [SOAP and REST Web Services Enhancements in 2021.01](#)
- [Rebranding in 2021.01](#)

Entitlement Management Enhancements in 2021.01

The following enhancement to the entitlement management was added in the 2021.01 release.

New Parameter to Control Inactivating or Obsoleting Entitlements and Line Items Currently Used by Devices

When an entitlement or line item is made Inactive or Obsolete, the licenses currently activated on a device (license server or standalone device) by that line item or entitlement remain on the device until they expire.

If this behavior is not desired, it is now possible to prevent the line item or entitlement from being made Inactive or Obsolete by setting the System Configuration option **Allow used entitlement/line item state change to Inactive or Obsolete** to **false**. An error message will then be displayed if an attempt is made to make such a line item or entitlement Inactive or Obsolete. (The option is located under **System>Configuration>FlexNet Operations>General Options**.)

Export and Import Enhancements in 2021.01

The following enhancement to the Data Export and Import functionality was added in the 2021.01 release.

Ability to Export a Single Entitlement into a Template for Import

Previously, to import a single or selected entitlements into a template for data import, users had to export the entire entitlement base. A new import option now makes it possible to export selected entitlements into a template for import.

Updates and Insights Enhancements in 2021.01

The following enhancement to the Updates and Insight module was added in the 2021.01 release.

Support for Served Devices

Updates and Insights originally supported requests from standalone devices only and then, starting in 2020 R2 SP1, from server devices. With this current release, Updates and Insights will also accept update requests (and the ability to log update status and device events) from served devices. This enhancement enables served devices to carry out in-product updates—and so achieve more frequent updates or patches to their software—as well as provide producers with insights into the status and use of their software on served devices.

SOAP and REST Web Services Enhancements in 2021.01

The following enhancement to the Web Services module was added in the 2021.01 release.

Ability to Search by “Sold To” Account Name When Using “getEntitlementsQuery”

Previously, the **getEntitlementsQuery** SOAP web service did not allow the ability to filter on the **Sold To** account name. An optional parameter, **isSearchByName**, has been added to the request type so that this filter can be carried out, without changing the way the API operates by default for existing integrations.

Rebranding in 2021.01

In 2020, FlexNet Operations became a product of Revenera, a new division of Flexera Software. The process is currently underway to rebrand the product, user documentation, and related artifacts to display the new Revenera logo (replacing the “Flexera” logo) and to redirect links to the Revenera Community and other Revenera-related sites. The FlexNet Operations product name remains the same.

System Requirements

Detailed system requirements for FlexNet Operations include the following.

Requirement	Description
Web browsers	<ul style="list-style-type: none">● Microsoft Edge● Mozilla Firefox 75.0● Google Chrome 80.0.3987.163

Requirement	Description
FlexNet licensing module	<ul style="list-style-type: none"> FlexNet Publisher Toolkit 11.12.0 or later FlexNet Embedded Toolkit 2015 R2 or later  <hr/> <p>Note ▪ <i>FlexNet Operations supports these FlexNet Embedded host ID types: Ethernet, FlexID 9, FlexID 10, String, VM_UUID, User, Extended, PUBLISHER_DEFINED, Internet, and Internet6.</i></p>
Vendor certificate generator	<p>The current versions of the VCG kit are 12.11.0 and 16.2.2.0.</p> <p>These VCGs were tested with the following compilers:</p> <ul style="list-style-type: none"> Windows—Visual Studio 2010 Professional Edition Linux—gcc 4.1.2 (RHEL 5.0) Linux—gcc 4.4.4 (RHEL 6.0)  <hr/> <p>Note ▪ <i>The 12.11.0 VCG is built with FlexNet Publisher 11.11.1 and shares the same minimum C compiler requirements on each supported platform. (See the FlexNet Publisher 11.11.1 release notes for C/C++ compiler support.)</i></p>
High Speed File Upload	<p>If you intend to use the High Speed Upload option to upload files, the following plug-in is required:</p> <p>Aspera Connect 3.10.0 or later</p>

Resolved Issues

The following sections describe the issues that have been resolved in the FlexNet Operations 2021 releases to date:

- [Issues Resolved in 2021.12](#)
- [Issues Resolved in 2021.11](#)
- [Issues Resolved in 2021.10](#)
- [Issues Resolved in 2021.09](#)
- [Issues Resolved in 2021.07](#)
- [Issues Resolved in 2021.06](#)
- [Issues Resolved in 2021.05](#)
- [Issues Resolved in 2021.04](#)
- [Issues Resolved in 2021.03](#)

- [Issues Resolved in 2021.02](#)
- [Issues Resolved in 2021.01](#)

Issues Resolved in 2021.12

Issues in the following areas were resolved in the FlexNet Operations 2021.12 release:

- [Electronic Software Delivery Issues Resolved in 2021.12](#)
- [Entitlement Management Issues Resolved in 2021.12](#)
- [SOAP and REST Web Services Issues Resolved in 2021.12](#)

Electronic Software Delivery Issues Resolved in 2021.12

The following issue related to Electronic Software Delivery was addressed in the 2021.12 release.

Unwanted Text String No Longer Showing in License Agreement Content

In previous releases, the following string could be included in the End User License Agreement (EULA) contents displayed on the **License Terms and Conditions** page for a given download package in the End-User Portal:

```
??EULAServlet.ExportCompliance.DefaultContent???
```

This issue was fixed for the English language in 2021.11 and is now fixed for all languages. The unwanted string is no longer displayed.

Entitlement Management Issues Resolved in 2021.12

The following issues were resolved for entitlement management in the 2021.12 release.

All Lines for New Entitlement Now Listed Whether or Not They Define Values for New Custom Attributes

In previous releases, when a new custom attribute was configured to display as a column on the **List Entitlements** page in the Producer and End-User portals, an issue could occur when new line items were added to an entitlement. Only those new line items that defined a value for the attribute were displayed on the **List Entitlements** page and in line-item lists on other pages in both portals. New line items that left the attribute blank were not listed.

This issue is now resolved so that all new line items for an entitlement are displayed, whether or not the custom attribute for a given line item has been set. (A prerequisite for this fix is that the custom attribute must allow only text, date, or number values.)

Note that, to ensure that *existing* entitlement line items are visible once a new custom attribute is enabled, users need to do either of the following:

- Make sure the custom attribute for each existing line item has a value set.
- For those line items that have a null value for the custom attribute, programmatically update the attribute with a dummy value, such as “N/A”.

Information in New Product or Entitlement No Longer Overwriting Information in Other Opened Products and Entitlements

In previous releases, when a producer created and saved a new product or entitlement while an existing product or entitlement was currently open in the same browser session, the information in the new product or entitlement could overwrite information in the corresponding existing entity (as seen when the existing entity was refreshed). The same problem was seen on Bulk Entitlement, Test Entitlement, and Test Bulk Entitlement pages. This had been partially fixed in 2021.10, and has now been fully resolved.

SOAP and REST Web Services Issues Resolved in 2021.12

The following issue related to FlexNet Operations Web Services was addressed in the 2021.12 release:

“generateCapabilityResponse” Method Now Properly Acknowledging Inactive or Obsolete Entitlement Line Items

In previous releases, the **generateCapabilityResponse** method (in the **ManageDeviceService** SOAP web service) would return a SUCCESS status in the capability response even though one or more of the requested line items were obsolete or inactive. While the obsolete or inactive line items were *not* mapped to the device as expected, the resulting SUCCESS status was misleading.

Now, the generated capability response shows a PARTIALFAILURE status when one or more of the requested line items are obsolete or inactive. The <reason> element in the response indicates which licenses could not have their copies increased (in this case, due to their obsolete or inactive status).

Issues Resolved in 2021.11

Issues in the following areas were resolved in the FlexNet Operations 2021.11 release:

- [Download Package Management Issues Resolved in 2021.11](#)

Download Package Management Issues Resolved in 2021.11

The following issues were resolved for the management of download packages in the 2021.11 release:

Updates to the Failed Packages Window

The **Failed Packages** window has been updated to provide information about how to handle the packages that failed to download due to validation issues during the current download process. (The **Failed Packages** window is opened when you click **review and resolve** from an error message that is displayed on the **Download Packages** window when certain package selections fail to download.)

Multiple-Package Download No Longer Failing When Some Packages Contain No Files

When an end user downloads multiple packages from the **Download Packages** window and one or some of the selected packages contain no files, the user is now allowed to proceed to download files for the remaining download packages. Only when none of the selected packages contain files will an error occur and the download process not be allowed to proceed.

Previously, if one or some of the selected packages contained no files, the entire download process failed with an error (either on the **Download Packages** window or the possible subsequent **Failed Packages** window).

Regions Now Successfully Added to Download-Package Geographic Restrictions in Firefox

When the Producer Portal runs in a Firefox browser, producers can now successfully add regions of countries as geographic restrictions for a download package. (Geographic restrictions are defined on the **Restrict Download Package** page, accessed through the **Edit > Restrict** option on the **View Package Download** page.) Previously, when the Producer Portal ran in Firefox, an attempt to add a region to a country as a geographic restriction would result in the country-region not displaying in the list of restrictions.

Any Number of Countries Allowed to Be Added to Geographic Restriction List at One Time

When designating geographic locations to which a given download package will be available, producers are no longer restricted to a maximum selection of 50 countries at any one time from the **Add Country** list available from the **Restrict Download Package** page. Starting in this release, users can select any number (or all) of the countries on the list at a given time to create geographic restrictions. (The **Restrict Download Package** page is accessed through the **Edit > Restrict** option on the **View Package Download** page.)

Any Number of Countries Allowed to Be Removed from Geographic Restriction List at One Time

A producer can now remove any number (or all) of the countries at any one time from the list of geographical restrictions for a download package shown on the **Restrict Download Package** page. In previous releases, a producer could remove a maximum of only 20 countries at a time. (The **Restrict Download Package** page is accessed through the **Edit > Restrict** option on the **View Package Download** page.)

Proper Behavior on “Failed Download Packages” Window After All Failed Packages Are Cleared

Once the EULAs have been accepted for all applicable packages listed on the **Failed Download Packages** window, the following behavior now occurs: (FNO-66141)

- The window shows the message “No failed packages remaining”, instead of the misleading message “No downloads available”.

- When you click **Cancel** to return to the previous **Download Packages** window, this window now updates properly. It no longer prompts the user to review and resolve failed-package validation when no packages are remaining to validate.

Issues Resolved in 2021.10

Issues in the following areas were resolved in the FlexNet Operations 2021.10 release:

- [Download Package Management Issues Resolved in 2021.10](#)
- [Entitlement Management Issues Resolved in 2021.10](#)
- [Export and Import Issues Resolved in 2021.10](#)
- [SOAP and REST Web Services Issues Resolved in 2021.10](#)

Download Package Management Issues Resolved in 2021.10

The following issues were resolved for the management of download packages in the 2021.10 release:

- [“I agree” Option to Resolve Unaccepted EULAs Now Working Properly](#)
- [Packages Now Properly Download When Account Meets Country-Region Requirements](#)
- [Reports of Download Progress Greater than 100 Percent No Longer Occurring](#)
- [All Versions of macOS Now Supported by Download Manager](#)
- [Correct Linux Path for Logs](#)

“I agree” Option to Resolve Unaccepted EULAs Now Working Properly

By design, when you select a package (using the selection column) that contains an unaccepted EULA from the **Device > Downloads** tab, and click **Download**, the package validation process results in a “failed validation” message that includes a **review and resolve** link. When you click the link, a **Failed Packages** window is displayed, enabling you to accept the EULA (and address any other problems). Previously, when you clicked **I agree** on this window to accept the EULA, the acceptance operation would hang. This issue has been fixed so that the **I agree** option now properly accepts the EULA.

Packages Now Properly Download When Account Meets Country-Region Requirements

In recent releases, End-User Portal users whose account was assigned to a country-region combination that met a given package’s geographic requirements were unable to download that package. The Download Manager would hang with the message: “Download Manager is gathering file info...Please wait.”

This issue has been resolved. End users whose accounts are assigned to a country-region locale that meets a package’s geographic requirements are now able to download that package successfully.

Reports of Download Progress Greater than 100 Percent No Longer Occurring

Download Manager was reporting a progress of greater than 100% for certain files. This problem has now been fixed in the latest Download Manager version (1.8) so that file download progress is reported correctly. (Users are prompted to install this latest version when they initiate their first download in the 2021.10 release.)

All Versions of macOS Now Supported by Download Manager

The latest version of Download Manager (1.8) now supports all versions of macOS. It works seamlessly on versions prior to macOS 10.15 (for example, 10.14, 10.13, and so forth), on macOS 10.15 (Catalina), and on latest macOS version, which is 11 (Big Sur).

Correct Linux Path for Logs

On Linux, Download Manager logs are properly located in the path `/var/log/DownloadManager/log.txt`.

Entitlement Management Issues Resolved in 2021.10

The following issue was resolved for entitlement management in the 2021.10 release:

Details for Existing Entitlement for No Longer Overwritten with Information Saved to New Entitlement

When a producer was creating an entitlement while an existing entitlement was open in the same browser session, the information saved to the new entitlement could overwrite certain information in the existing entitlement (as seen when the existing entitlement was refreshed). This issue is now resolved. Information for an existing entitlement open in a browser session is no longer overwritten with information from an entitlement created in the same session.

Export and Import Issues Resolved in 2021.10

The following issue related to the Data Export and Import functionality was resolved in the 2021.10 release.

Links Between License Models and Part Numbers Retained During Product Updates with Template

Updating products using the **CreateUpdateProduct** template is no longer removing the links between part numbers and license models.

SOAP and REST Web Services Issues Resolved in 2021.10

The following issues related to FlexNet Operations Web Services were addressed in the 2021.10 release:

- [“getEntitlementLineItemPropertiesQuery” with “restrictToItemsWithCount” Filter Now Returning Correct Items](#)

- [“getAccountsCount” SOAP web service \(UserAcctHierarchyService v3\) Now Returning Correct Totals](#)
- [Replace Operation in updateProduct Now Properly Replacing License Model](#)

[“getEntitlementLineItemPropertiesQuery” with “restrictToItemsWithCount” Filter Now Returning Correct Items](#)

A **getEntitlementLineItemPropertiesQuery** request in which the **restrictToItemsWithCount** filter is set to true now correctly returns only those activation IDs whose counts are greater than 0. Previously, the response included activation IDs with 0 counts. (The **getEntitlementLineItemPropertiesQueryRequest** method belongs to the **EntitlementOrderService** SOAP web service.)

[“getAccountsCount” SOAP web service \(UserAcctHierarchyService v3\) Now Returning Correct Totals](#)

The **getAccountsCount** SOAP web service (version 3 of **UserAcctHierarchyService**) now returns correct totals when multiple account types are specified in the request.

[Replace Operation in updateProduct Now Properly Replacing License Model](#)

The **REPLACE** operation for **opType** in the **updateProduct** method (in the **ProductPackagingService** SOAP web service) now properly replaces a license model for a product. Previously, the operation was adding a license model to the product instead of replacing one.

Issues Resolved in 2021.09

Issues in the following areas were resolved in the FlexNet Operations 2021.09 release:

- [Entitlement Management Issues Resolved in 2021.09](#)
- [Reporting Issues Resolved in 2021.09](#)
- [SOAP and REST Web Services Issues Resolved in 2021.09](#)

Entitlement Management Issues Resolved in 2021.09

The following issues were resolved for entitlement management in the 2021.09 release:

- [“Email Template variation” Field No Longer Resetting Itself During Entitlement Creation](#)
- [Attempts to Transfer an Entitlement Count Back to Its Original Entitlement No Longer Failing](#)
- [New Checks in Place to Prevent Concurrent Transfer and Mapping Operations Against the Same Entitlement Line Item](#)

[“Email Template variation” Field No Longer Resetting Itself During Entitlement Creation](#)

Email Template variation field is no longer resetting itself back to the default **Select** value whenever users attempt to add channel partners during the entitlement creation process.

Attempts to Transfer an Entitlement Count Back to Its Original Entitlement No Longer Failing

In previous releases, an attempt to transfer a license count for an entitlement line item under certain conditions could fail with the following error message: “The number of copies cannot be set to a number less than the fulfilled amount *n*.” The error was occurring (both in the Producer and End-User portals and for the **transferLineItem** Web Services method) even though the count being transferred was currently not fulfilled or mapped to any device. This issue is now resolved.

New Checks in Place to Prevent Concurrent Transfer and Mapping Operations Against the Same Entitlement Line Item

In previous releases, users were allowed to run a license-mapping operation against an entitlement line item while a license transfer was currently in progress against this same line item. The concurrent operations could result in corrupted license counts.

Now, during the transfer of an entitlement line to a different account or entitlement (through either the Producer or End-User Portal or the **transferLineItems** SOAP request), users are prohibited from mapping/unmapping licenses from the line item to/from a device.

If users attempt to perform a mapping operation during a license transfer that involves the same line item, the following message is displayed in the UI: “A license transfer is in progress for the activation Id <activationId>. Please wait until this has completed.” Additionally, the line item currently being transferred will be unavailable for mapping operations until the transfer is completed.

Reporting Issues Resolved in 2021.09

The following issue related to FlexNet Operations reporting was addressed in the 2021.09 release.

Link to New Reporter Now Visible on ESD Pages

The link to the new version of Reporter is now visible on the **System** menu when the user has navigated to any of the pages that manage Electronic Software Delivery (ESD) functionality in the Producer Portal. The link was missing previously.

SOAP and REST Web Services Issues Resolved in 2021.09

The following issue related to FlexNet Operations Web Services was addressed in the 2021.09 release.

Integration Issues with Versioned SOAP Web Services Resolved

Previous releases experienced a Web Services problem in which a "/" in the service binding name (for example, **v4/EntitlementOrderService**) could result in an error and failed integration. The error occurred on certain integration platforms and libraries such as Tibco BW, Windows Communication Foundation and .Net Core.

To resolve this issue, new versions of the **EntitlementOrderService** and **UserAcctHierarchyService** web services have been introduced. Both use a binding name format that omits the “/”:

- **EntitlementOrderService** (v5)
- **UserAcctHierarchyService** (v4)

Issues Resolved in 2021.07

Issues in the following areas were resolved in the FlexNet Operations 2021.07 release:

- [Device Management Issues Resolved in 2021.07](#)
- [Electronic Software Delivery Issues Resolved in 2021.07](#)
- [Email Notification System Issues Resolved in 2021.07](#)
- [Product Management Issues Resolved in 2021.07](#)

Device Management Issues Resolved in 2021.07

The following issue was resolved for the management of devices in the 2021.07 release.

Details for Served Devices Now Visible to Partners

Partner users in the End-User Portal (or using SOAP web services) are now able to view the details of a device whose features are served by a license server belonging to a customer account associated with the partner. This capability exists as long as the license server is licensed with an activation ID that is mapped to both the partner's account and the customer's account. Previously, partners could not view served-device details in an associated customer account.

Electronic Software Delivery Issues Resolved in 2021.07

The following issue related to Electronic Software Delivery was addressed in the 2021.07 release.

“Extended Description” Field on “Add File” Page Returned to Its Previous Maximum Length

An issue was reported in the 2021.06 release that the maximum size for the **Extended Description** field on the **Add File** page had changed from 1000 to 2000 characters. In this release, the size discrepancy has been resolved: the field's previous 1000-character maximum size has been restored.

Email Notification System Issues Resolved in 2021.07

The following issue was resolved for the Email Notification system in the 2021.07 release.

CLS Identification Merge Tags Now Supported in Email Forms in End-User Portal

The merge tags `[[DEFAULT_GLS_INSTANCE_ID]]` and `[[DEFAULT_GLS_URL]]`—which identify a Cloud license server (CLS)—are now supported in the email form used in the End-User Portal to send entitlement notifications.

Product Management Issues Resolved in 2021.07

The following issue involving product management was resolved in the 2021.07 release.

New Product Information No Longer Overwriting Existing Product Information

When a producer was creating a product while an existing product was currently open in the same browser session, the information saved for the new product could overwrite certain information in the existing product (as seen when the existing product was refreshed). This issue is now resolved. Information for an opened existing product is no longer overwritten with information from a product being created in the same browser session.

Issues Resolved in 2021.06

Issues in the following areas were resolved in the FlexNet Operations 2021.06 release:

- [Device Management Issues Resolved in 2021.06](#)
- [Entitlement Management Issues Resolved in 2021.06](#)
- [FlexNet Publisher Back-Office Issues Resolved in 2021.06](#)
- [General Issues Resolved Issues Resolved in 2021.06](#)

Device Management Issues Resolved in 2021.06

The following issue was resolved for the management of devices in the 2021.06 release.

Additional Improvement in the Enforcement of User Permissions When Editing Devices

In the 2021.04 release, a change was included to allow strict enforcement of a customer user's permissions in the End-User Portal, where the user's permissions might vary between accounts. (This enforcement is enabled using the option **System > Configure > End-User Portal Setup > Devices Page > Enforce device management permission across accounts.**)

In this release, a further improvement has been applied to this change, so that if a user lacks permissions to return or generate licenses, but can otherwise edit a device, these specific restrictions are also enforced strictly for each account.

Entitlement Management Issues Resolved in 2021.06

The following issues were resolved for entitlement management in the 2021.06 release.

Activation ID Link Now Properly Opening Entitlement Details Window

In the End-User Portal, clicking an activation ID on the **List Entitlements** page resulted in an error message. This issue has been resolved. Now, clicking an activation ID link opens the **Entitlement Details** window, which lists the activation details.

Bulk Upgrades with Embedded Licenses Successful

Bulk upgrade jobs complete without errors related to embedded licenses.

FlexNet Publisher Back-Office Issues Resolved in 2021.06

The following FlexNet Operations issue related to the FlexNet Publisher was addressed in the 2021.06 release.

Creation of Trial ASRs No Longer Resulting in Hibernation Error

Previous attempts to create local trial ASRs could result in a hibernation error if the ASR requested features with long names or a large number of features. This issue has now been resolved.

General Issues Resolved Issues Resolved in 2021.06

The following general issue related to FlexNet Operations was addressed in the 2021.06 release.

Third-Party Component jQuery Upgrade

The UI for the third-party component jQuery has been upgraded to 1.12.1 for both the Producer Portal and the End-User Portal to resolve any issues related to the outdated product.

Issues Resolved in 2021.05

Issues in the following areas were resolved in the FlexNet Operations 2021.05 release:

- [Device Management Issues Resolved in 2021.05](#)
- [Download Package Management Issues Resolved in 2021.05](#)
- [Electronic Software Delivery Issues Resolved in 2021.05](#)
- [Product Management Issues Resolved in 2021.05](#)
- [Security Issues Resolved in 2021.05](#)
- [SOAP and REST Web Services Issues Resolved in 2021.05](#)

Device Management Issues Resolved in 2021.05

The following issue was resolved for the management of devices in the 2021.05 release.

Trailing or Leading Spaces in Feature Names No Longer Failing Device Series Updates

Previously, when producers attempted to update a device series for FlexNet Embedded, any trailing or leading spaces around a feature name prevented the series from being updated. Starting in this release, trailing or leading spaces around feature names are ignored during the update process.

Download Package Management Issues Resolved in 2021.05

The following issue was resolved for the management of download packages in the 2021.05 release.

Size of Files in Download Packages Now in Binary Format

Previously, the size of files in a download package on the **Downloads > List Downloads** page did not match the size of the downloaded files. In this release, file sizes in the End-User Portal are now calculated using a binary conversion so that the raw byte size is divided by a power of 2 rather than a power of 10, as used previously. For example, with this conversion 1 KB now represents 1024 bytes, rather than the 1000 bytes previously calculated. As a result, the **Downloads > List Downloads** page now shows the size of files in the download package in binary format, the same format used for downloaded-file sizes, thus eliminating the file-size discrepancies.

Note that the Reporter still calculates file sizes using a power of 10 so that 1 KB represents 1000 bytes.

Electronic Software Delivery Issues Resolved in 2021.05

The following issue related to Electronic Software Delivery was addressed in the 2021.05 release.

“List Entitlements” Page Now Showing Download Package Links for Re-identified Entitlements

Previously, if an entitlement that had an associated download package was re-identified with an auto-generated entitlement ID, the **List Entitlements** did not show the package-download link in the End-User Portal. This issue has now been resolved.

Product Management Issues Resolved in 2021.05

The following issue was resolved for the management of download packages in the 2021.05 release.

Last Modified Date Now Updated Only When Product Configuration Changes Saved

Previously, simply navigating through the details for a product resulted in the product's **Data Modified** field to be updated. Now the field is updated only if the changes to the product's configuration have been saved.

Security Issues Resolved in 2021.05

The following security issue was addressed in the 2021.05 release.

Restricted Directory Access

As a preventative measure based on a recently announced security vulnerability, a security constraint has been implemented to restrict access to the WEB-INF directory.

SOAP and REST Web Services Issues Resolved in 2021.05

The following issue related to FlexNet Operations web services was addressed in the 2021.05 release.

Appropriate Error Now Produced When Transferred Counts Exceed Available Counts

Previously, the **transferLineItem** method in the **EntitlementOrderService** SOAP web service erroneously permitted the transfer of line item counts from one entitlement to another when the requested transfer count was greater than the number of licenses available in the source entitlement.

Now, the **transferLineItem** method throws an appropriate error when users attempt to transfer line item counts that exceed the number of licenses available in the source entitlement. (The transfer succeeds, however, when the transfer count is less than or equal to the available license count.)

Issues Resolved in 2021.04

Issues in the following areas were resolved in the FlexNet Operations 2021.04 release:

- [Device Management Issues Resolved in 2021.04](#)
- [Email Notification System Issues Resolved in 2021.04](#)
- [Entitlement Management Issues Resolved in 2021.04](#)
- [License Usage Issues Resolved in 2021.04](#)
- [SOAP and REST Web Services Issues Resolved in 2021.04](#)

Device Management Issues Resolved in 2021.04

The following issue was resolved for the management of devices in the 2021.04 release.

Device Permissions Now Properly Enforced Based on Its Account

Previously, a user who belonged to multiple accounts—one or more of which had full device-management permissions—would have full device-management permissions on devices that belonged to any of these accounts, even those accounts in which the user had no or limited device-management permissions.

A new configuration option in the Producer Portal, **System > Configure > End-User Portal Setup > Devices Page > Enforce device management permission across accounts**, now enforces device management permissions across all accounts in the End-User Portal. When the option is selected, all devices are listed on the **Devices** page (as in previous releases), no matter the account with which a given device is associated. However, when a device link is clicked, the capabilities available on the **Device Details** page are based on the specific account to which the device belongs. Consequently, if a user belongs to multiple accounts, the user's device-management permissions are now determined on an account-by-account basis, depending on the account with which the currently selected device is associated.

By default, this option is unselected so that the previous behavior remains in effect.

Email Notification System Issues Resolved in 2021.04

The following issues were resolved for the Email Notification system in the 2021.04 release.

Issues with Account Keywords and Merge Tags

Previously, the Entitlement and Entitlement Certification email template had the following issues:

- The *Account* keyword was not retrieving account-related merge tag details.
- The merge tag `[[AcctName]]` retrieved no information, resulting in a blank in the generated email or certificate.

These issues have been resolved in the current templates.

Title Length Errors for Template Variations Now Properly Handled

Previously, when users created an email template variation with a title that exceeded the maximum 25 characters, FlexNet Operations did not handle the error in a helpful way. A meaningful error message is now provided.

Entitlement Management Issues Resolved in 2021.04

The following issue related to entitlement management was resolved in the 2021.04 release.

Correct Available Count Showing on Entitlement Transfer Page

The **Transfer Entitlement Line Item** page now displays the correct available count for the transfer of an entitlement line item from a source to a target account in both the Producer Portal and the End-User Portal.

License Usage Issues Resolved in 2021.04

The following issue related to license usage was resolved in the 2021.04 release.

Issues with Activation ID Case Sensitivity in License Usage Searches Resolved

Previously, the case-sensitivity issues occurred with the activation IDs provided during searches for license usage information on devices. License usage searches are now case insensitive.

SOAP and REST Web Services Issues Resolved in 2021.04

The following issue with SOAP and REST web services was resolved in the 2021.04 release.

Feature Replacement for Deployed Products Now Working Properly

The REPLACE operation for individual features in the **updateProduct** SOAP web service now properly replaces a given feature in a deployed project (as long as the editing of deployed products is allowed).

Issues Resolved in 2021.03

Issues in the following areas were resolved in the FlexNet Operations 2021.03 release:

- [Account and User Management Issues Resolved in 2021.03](#)
- [Email Notification System Issues Resolved in 2021.03](#)
- [Entitlement Management Issues Resolved in 2021.03](#)
- [Export and Import Issues Resolved in 2021.03](#)
- [Product Management Issues Resolved in 2021.03](#)
- [Public Services Issues Resolved in 2021.03](#)
- [SOAP and REST Web Services Issues Resolved in 2021.03](#)

Account and User Management Issues Resolved in 2021.03

The following issue was resolved for the management of accounts and users in the 2021.03 release.

Creation of Users with Email Address Domains Containing Four Parts Now Allowed

The End-User Portal now allows the creation of users whose email address contains four tokens in its domain part (such as in mary.smith@**a.b.example.com**).

Email Notification System Issues Resolved in 2021.03

The following issue was resolved for the Email Notification system in the 2021.03 release.

Issue with Incorrect First Names Used in Emails Resolved

Previously, when an account had multiple users, a notification email sent to any of these users could contain the first name of any of the account's users in the greeting. This issue has been resolved so that the correct first name of a given recipient is used in that recipient's email.

Entitlement Management Issues Resolved in 2021.03

The following issue involving entitlement management was resolved in the 2021.03 release.

Attempts to Reduce Entitlement Quantities Now Successful

In some cases previously, producers were not able to reduce the quantity of a line item for a FlexNet Embedded entitlement even though the entitlement had no active fulfillments or still had some line items yet to be fulfilled. (The issue was related to FlexNet Embedded entitlements created before December 3, 2020.) This issue has now been resolved.

Export and Import Issues Resolved in 2021.03

The following issue related to the Data Export and Import functionality was resolved in the 2021.03 release.

Downloads Now Available to End Users for Entitlements Created with Data Import Template

Previously, when entitlements were created using a data import template, an Electronic Software Delivery download link would be available in the End-User Portal for only the last line item of each entitlement. This issue has been resolved so that links to all items in the entitlement are available.

Product Management Issues Resolved in 2021.03

The following issue related to product management was resolved in the 2021.03 release.

Product Line Change No Longer Deleting Custom Attributes of Product

Previously, if you changed the product line for a given product, all the custom attributes for the product were deleted. This behavior is now managed by a new attribute, **System > Configure > FlexNet Operations > Preserve Product Custom Attributes when changing a Product Line**. By default, this option is not selected.

Public Services Issues Resolved in 2021.03

The following issue involving the Public Services was resolved in the 2021.03 release.

“EntitlementDetails” Public Service No Longer Generating Error for Missing Grace Period

A license model can designate that the value for certain attributes (such as Grace Period, Renewal, Overdraft) be defined at the time an entitlement line is created for any product to which the license model is assigned. Additionally, providing a value for this attribute is optional. When the **EntitlementDetails** public service was run against an entitlement containing entitlement lines that had no value defined for one of these attributes, the service generated an error message similar to this: “The attribute <attribute name> days is not a valid numeric type.”

This issue has been resolved so that, when an attribute that is designated as optional for an entitlement line has no value, the **EntitlementDetails** public service no longer throws an exception.

SOAP and REST Web Services Issues Resolved in 2021.03

The following issues with SOAP and REST web services were resolved in the 2021.03 release.

Part Number Associated with Product Now Properly Handled During Product Entitlement

Previously, if the part number for a product that was being entitled was not included during the creation of an entitlement through the **EntitlementOrderService** SOAP web service, the part number associated with the product was still shown in the End-User Portal. This has been fixed. Now, if the part number for a product being entitled is not included in the web service request, the part number associated with the entitled product is no longer assigned by default.

Milliseconds Separator No Longer Included in Returned Usage Data

In the data returned for the Usage data extract REST API, the timestamps for **Transaction Time** and **Received Time** were showing a period (.) as a milliseconds separator even though a milliseconds value was not intended to be included in either timestamp.

```
2020-08-18T02:09:28.-0700
```

The unnecessary period could cause parsing issues and has now been removed.

Last Modified Time for Line Items Now Reported Accurately

The **lastModifiedDateTime** attribute for an entitlement line item now gets updated internally with every checkout or return of a license. As a result, this value (in UTC format) is now accurately reported in the **lastModifiedDateTime** field in the response for the **getActivatableItemsQuery** SOAP web service.

Issues Resolved in 2021.02

Issues in the following areas were resolved in the FlexNet Operations in the 2021.02 release:

- [Account and User Management Issues Resolved in 2021.02](#)
- [Device Management Issues Resolved in 2021.02](#)
- [Entitlement Management Issues Resolved in 2021.02](#)
- [License Management Issues Resolved in 2021.02](#)
- [Product Management Issues Resolved in 2021.02](#)
- [SOAP and REST Web Services Issues Resolved in 2021.02](#)

Account and User Management Issues Resolved in 2021.02

The following issue was resolved for the management of accounts and users in the 2021.02 release.

Users Now View Only Those Accounts to Which They Belong

Previously, when the **Apply Manage Users...** system option was in effect, a user (for example, User 1), who belonged to the same account as another user (User 2), would be able to remove User 2 from a different account even if User 1 did not belong to the different account. This issue has now been resolved by providing a user with access to only those accounts to which the user belongs.

The **Apply Manage Users permission to users in shared accounts** option is configured through **System > Configure > FlexNet Operations > General Options** in the Producer Portal.

Device Management Issues Resolved in 2021.02

The following issue was resolved for the management of devices in the 2021.02 release.

Now Only Electronic Software Delivery License Required for Availability of Downloads Tab for Devices

The **Downloads** tab is visible on the **Device Details** page for a standalone device in the End-User Portal as long as the end user has an Electronic Software Delivery license (and the Administrator has set the appropriate System Configuration options for the End-User Portal). Previously, the visibility of this tab was erroneously dependent on an Updates and Insights license as well.

Entitlement Management Issues Resolved in 2021.02

The following issues involving entitlement management were resolved in the 2021.02 release.

Issue with Deleting Source Account in an Entitlement Merge Resolved

Previously, after the entitlements for an account belonging to one organization had been merged with the entitlements of another account for a different organization *on the same host*, an attempt to delete the source account for the merge could fail. The deletion of the source account now completes successfully.

Users with Italian Locale Now Able to Perform Entitlement Transfers

Previously, users with the locale value **Italian (it_IT)** were unable to transfer entitlements in the End-User Portal. This issue has been resolved.

Returned FlexNet Publisher Licenses Now Reflected in Line Item Counts

Previously, counts for returned FlexNet Publisher licenses were not being updated to the associated entitlement line items. This issue has been resolved.

Correct “Available Quantity” Values Now Show in Line items in End-User Portal

Line items for FlexNet Embedded entitlements on the **List Entitlements** page in the End-User Portal now display correct values for **Available Quantity** (for example, when compared with the correct **Qty Remaining** value on the **Entitlement Details** pop-up). This issue was found in those FlexNet Embedded entitlements that were created and fulfilled before December 3, 2020.

License Management Issues Resolved in 2021.02

The following issue involving license management was resolved in the 2021.02 release.

Unexpected Error During Creation of Local Trial ASRs Resolved

Previous attempts to create a local trial ASR in the Producer Portal could fail with an unexpected error. The error is resolved, and the creation of a local trial ASR now completes successfully.

Product Management Issues Resolved in 2021.02

The following issue related to product management was resolved in the 2021.02 release.

License Model Value for Product Part Number Now Updating Properly

Previously, when a different product was associated with a part number on the **Create a Part Number** window, the License Model selected for the new product was not saved once the user clicked **Save**. This issue is now resolved.

SOAP and REST Web Services Issues Resolved in 2021.02

The following issues with SOAP and REST web services were resolved in the 2021.02 release.

“getActivatableItemsQuery” Web Service Results Now Show Correct Number of Copies for Line Items

Previously, in the response for the **getActivatableItemsQuery** SOAP web service, information for given entitlement line items could occasionally show out-of-date values for the number of remaining and fulfilled line-item copies. This issue is now resolved.

Special “publicservices” REST API Now Returning Correct License Counts

The **publicservices** REST API is a special interface used by some producers to return license counts for an activation or entitlement ID.

Previously, this API could return an incorrect “remaining licenses” count for a given activation ID. If the API was called as part of an activation process, the incorrect value in the response could cause the activation to fail. The **publicservices** API is now returning the correct license counts for a given activation ID.

Issues Resolved in 2021.01

Issues in the following areas were resolved in the FlexNet Operations the 2020.01 release:

- [Account and User Management Issues Resolved in 2021.01](#)
- [Entitlement Management Issues Resolved in 2021.01](#)
- [Product Management Issues Resolved in 2021.01](#)
- [User Experience Issues Resolved in 2021.01](#)

Account and User Management Issues Resolved in 2021.01

The following issues involving the management of accounts and users were resolved in the 2021.01 release.

Attempt to Delete a User Associated with Many Devices Now Completes Successfully

Previously, when a user was associated with a large number of devices, a request to the FlexNet Operations UI or Web Services to delete the user occasionally failed because an internal operation timed out. The internal operation has been optimized so that it no longer times out, enabling the delete process to complete successfully.

Buttons on User Creation Page No Longer Disappearing

The **Link Account** and **Remove Account** buttons no longer erroneously disappear on the **Create a User** page when the pagination button is clicked.

Entitlement Management Issues Resolved in 2021.01

The following issue involving entitlement management was resolved in the 2021.01 release.

Changes to Line Items Now Shown on License Server

Previously, in some cases when a line item was updated (for example, to extend an expiration date), the changes to the line item were not displaying on the relevant license server. The situations that caused this issue have now been resolved.

Product Management Issues Resolved in 2021.01

The following issue involving product management was resolved in the 2021.01 release.

Successful Product Mapping to a Product Line with a Multi-Line Attribute

Previously, when a product line had an attribute whose type was multi-line, users could not map products to the product line. This issue has been resolved.

User Experience Issues Resolved in 2021.01

The following issue involving user experience was resolved in the 2021.01 release.

Text in the FlexNet Operations End-User Portal Now Properly Localized

Certain error and confirmation messages, input field labels, and instructions in the FlexNet Operations End-User Portal were not being properly localized. These localization issues have now been resolved.

Known Issues

The following describes known issues in the current FlexNet Operations release.

SWM-6755: Attempts to export all entitlements from End-User Portal unsuccessful

An attempt by a producer user to export all entitlements from the End-User Portal can fail.

SWM-8779: Feature Names with “SERVER” Truncated in Trusted Storage

Feature names containing the string “SERVER” are truncated when the features are activated in trusted storage.

FNO-66018: Errors in UI updated for download package selection across multiple pages

In 2021.09, the **Download Packages** window was updated to allow package selection across multiple pages. The following errors currently exist for the updated UI.

- [Incorrect error message for EULA license on Review & Resolve page](#)
- [Search string not properly clearing](#)
- [No option to return to full \(unfiltered\) Download Package list when “failed validation” message displays](#)
- [Failed validation error displayed for search results](#)
- [Pagination control fields not showing correct information](#)
- [Inappropriate message displayed for already downloaded packages](#)

Incorrect error message for EULA license on Review & Resolve page

When you attempt to download packages that fail validation, the following message is displayed: “Some of the selected packages failed validation. You need to review and resolve the validation errors.” On the **Failed Packages** window that is displayed if you click the “review and resolve” link in the message, the error for an unaccepted EULA incorrectly shows the following:

“EULA has not been accepted. To accept EULA, click on the Download package ID.”

Instead of “click on the Download Package ID”, the message should instruct the user to “click ‘I Agree’”.

Search string not properly clearing

After you filter the package list on the **Download Packages** window, the message “Results for Download package name: <name>” is appropriately displayed. However, if you then click the **Clear** link at the end of message, the search string used to filter the package list remains, the list remains filtered (even if you move to the next page), and the “Results for the Download package name...” message is still displayed. You must manually delete the search string and click **Search** to clear the filter.

No option to return to full (unfiltered) Download Package list when “failed validation” message displays

If the “failed validation” message is displayed after you attempt to download packages from a filtered list on the **Download Packages** window, no mechanism exists to clear the filter to display all packages. You must manually delete the search field contents and click **Search**.

Failed validation error displayed for search results

After searching for and attempting to download a package containing an unaccepted EULA, the expected message “Some of the selected packages failed validation...” is displayed on the **Download Packages** window. However, if you then search for a package that does not contain an EULA (but do not attempt to download the package), you received the “failed validation” message instead of the correct message describing the filter results: “Results for Download package name: <name>”.

Pagination control fields not showing correct information

The pagination control fields on the **Download Packages** window are not displaying the correct totals for a filtered list of packages.

Inappropriate message displayed for already downloaded packages

When you select an entitlement line item whose packages have already been downloaded, the **Download Packages** window is displayed with incorrect message “Files sent for download. Please monitor the download manager pop up”. The message should be removed altogether or displayed only as package files are being sent to the Download Manager (before the actual **Download Manager** window is displayed).

SWM-8196, 8199: End-User Portal showing recently added files for download packages that are currently not accessible due to geographic restrictions

The home page and the **Downloads > Recent Files Added** page in the End-User Portal are showing files recently added to download packages that are currently not accessible to the current account for downloading due to geographic restrictions.

SWM-8128: Download package still visible to users of accounts denied package access due to geographical restrictions

Although an account is denied access to a download package due to a geographic restriction, the package is still visible on the **Downloads** page (accessed from **Downloads > List Downloads**) in the End-User Portal for users of the account. However, when the user clicks the package, a message is displayed, appropriately explaining that no files are available for download for the package.

SWM-7952: Not all applicable download links available on List Downloads page in End-User Portal

When end-users are logged in with an activation ID for an entitlement line item that is associated with multiple products, the **Downloads** page (accessed from **Downloads > List Downloads**) in the End-User Portal does not always show links to all applicable product downloads.

SWM-7786: SHA2 Checksum value of previous file shown

The following issue can be observed in the 2021.06 release, following the [SHA2 Checksum Available for Uploading Files](#) enhancement, where a file's expected SHA2 checksum value can be provided when performing an upload. If a file image is subsequently deleted, and the **Upload File** page is opened again, the SHA2 checksum value of the previously loaded file image is shown.

SWM-6996: Updating device "Site name" property to blank not handled properly

If you change the **Site name** value for a device to a blank, the edited property reverts to its original value instead of maintaining the blank. This issue occurs when you make the change either through the Devices UI in the Producer Portal or End-User Portal or through the **updateDevice** method in the **ManageDeviceService** SOAP web service.

SWM-5894: Changes and limitations to the updateDevice SOAP method

The **updateDevice** method in the V3 and V4 **ManageDeviceService** SOAP web service has the following limitations and changes:

- [Single channel partner recommended in channel partner list](#)
- [Support for only Replace operation in channel partner list](#)

Single channel partner recommended in channel partner list

As in previous releases, the **updateDevice** method supports a list of channel partners. However, because a device is currently limited to one channel partner, the web service code, in turn, considers only one channel partner for the method. Therefore, you are strongly recommended to include only one partner in the channel partner list. If the list contains more than one channel partner, the behavior of **updateDevice** method is unpredictable.

Support for only Replace operation in channel partner list

Previously, the **opType** element, required for managing a channel partner list for the **updateDevice** method, had three possible values: **Add**, **Delete**, or **Replace**. This element now supports only the **Replace** value. If you specify **Add**, **Delete**, or **Replace** or omit the element altogether, the method will always use **Replace**. (If you attempt to specify **Add** or **Delete**, a message is returned in the response, explaining that **Replace** was used instead.)

FNO-65909: Download files not visible for self-registered and trial users

Download files might not be visible in the End-User Portal for self-registered users and those users registered through the "Try Before You Buy" registration.

FNO-63827: Downloads sometimes not available to end users when accounts are re-identified

When a new account is set up with an account ID previously used by a different account, and a user who belonged to the original account is assigned to the new account, that user is unable to see Software Delivery download links in the End-User Portal.

FNO-61266: Translation issues with localization

Per a previous enhancement in 2020 R3 to add more language support for End-User Portal localization, certain strings—such as alerts and validation messages—are not being translated properly when localization is in effect. These issues will be addressed in an upcoming release.

FNO-60845: Size limitation for license models

The JSON definition of a license model and the definition's internal representation are both stored in the FlexNet Operations database. Neither the JSON definition nor its internal representation can exceed 8000 bytes in length.

Special Notes

This section contains special information pertaining to FlexNet Operations.

Plug-in Upgrade Needed for High-Speed File Uploads

If you intend to use the high-speed upload option to upload files, upgrade the Aspera plug-in to Aspera Connect 3.10.0 or later.

Best Practice for Uploading New File Versions for Software Delivery

The following practice helps to prevent the delivery of “stale” file content to your customers.

When you upload a new version of a file (or package) whose previous version exists in the Software Delivery system, best practice is to give the new file version a unique name, different from the name of the existing file version. (For example, use a version number in the file name.) Try to avoid uploading a file using the same name as the existing file so that the existing file is overwritten.

If you must upload a new file using the same name as the existing file, delete the existing file and wait 10-15 minutes before uploading the new version. This process will reduce the probability of re-caching the old content.

Handling UI Conflicts When Using a Custom CSS for the End-User Portal

When you use your own CSS to customize the look of the End-User Portal, sometimes your custom CSS code conflicts with existing Revenera CSS code that is used to define certain buttons, pages, and other UI elements. When conflicts occur, handle each case individually, determining the basis of the conflict and adjusting the custom CSS as needed. If you require assistance, contact Revenera Technical Support (see [Revenera Resources](#)).

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