

FlexNet Operations 2025 ALM Release Notes

November 2025

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Introduction

This Release Notes document summarizes the features, enhancements, and updates delivered with FlexNet Operations 2025.11 (UAT) in October 2025. The document includes the following information:

- [Resources](#)
- [Features and Enhancements](#)
- [System Requirements](#)
- [Resolved Issues](#)
- [Known Issues](#)
- [Special Notes](#)
- [SOAP API Change Log](#)
- [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.

Note that any FlexNet Operations documentation published for UAT is subject to finalization until the Production release.

- 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 first logging into the [Revenera Community](#), clicking **Support** on the navigation menu to open the **Support Hub** page, and then clicking the **Open New Case** or **Case Portal** button.

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 view the release notes associated with FlexNet Operations ALM releases from previous years, access <https://docs.revenera.com/?product=FlexNet%20Operations> and select the appropriate year from the **VERSION** list.

Features and Enhancements

The following sections describe the new features and enhancements added to FlexNet Operations in 2025:

- [Features and Enhancements in 2025.11](#)
- [Features and Enhancements in 2025.10](#)
- [Features and Enhancements in 2025.09](#)
- [Features and Enhancements in 2025.08](#)
- [Features and Enhancements in 2025.07](#)
- [Features and Enhancements in 2025.06](#)
- [Features and Enhancements in 2025.05](#)
- [Features and Enhancements in 2025.04](#)
- [Features and Enhancements in 2025.03](#)
- [Features and Enhancements in 2025.02](#)
- [Features and Enhancements in 2025.01](#)

Features and Enhancements in 2025.11

Features and enhancements were added to the following areas of FlexNet Operations in the 2025.11 release:

- [Account and User Management Enhancements in 2025.11](#)
- [SOAP and REST Web Services Enhancements in 2025.11](#)

Account and User Management Enhancements in 2025.11

The following enhancement for the management of accounts and users was added in the 2025.11 release.

Support for Country Field in FlexNet Operations' User Synchronization Service

(Case 04164122, SWM-29615)

FlexNet Operations now supports capturing the user's country information during SCIM-based user provisioning.

Previously, all users created via FlexNet Operations' user synchronization functionality (see [Automated User Provisioning from Identity Providers \(IdPs\) to FlexNet Operations](#) for more information) were assigned a default country code of **US**. The country code for users based in countries other than the US had to be updated manually to reflect the correct country.

Now, a user's country information (if available) is passed from the Identity Provider (IdP) during user synchronisation and stored directly in the user profile. This enhancement reduces manual effort required to update user profiles and helps ensure accurate country data for compliance checks, including Electronic Software Delivery (ESD) validations.

Implementation Notes

The country value must be provided in ISO 3166-1 Alpha-2 format (for example, IN for India, GB for United Kingdom).

If the country code is invalid or not in the correct format, the system will return an error and the user will not be created in FlexNet Operations.

If the country code is missing, the user will still be created in FlexNet Operations, but will be assigned a default country code of **US**. No error message will be displayed in this case.

Customers who need assistance updating their Identity Provider (IdP) configuration to include the country code attribute in their user data for FlexNet Operations' User Synchronization Service should contact Revenera Support.

SOAP and REST Web Services Enhancements in 2025.11

The following enhancements were added to the SOAP and REST Web Services module in the 2025.11 release:

- [Restriction on Modifying publisherIDname After Device Creation](#)
- [Flexible Filtering for Null and Blank LicenseStatus Values](#)

Restriction on Modifying publisherIDname After Device Creation

(SWM-28354)

Previously, users were able to modify the publisher identity name (publisherIDname) of a device after its creation, even when the device's identity had already been mapped. This led to inconsistencies in license management, as changing the publisherIDname could result in mismatches between devices and their allocated licenses, potentially causing compliance issues and inaccurate license counts.

From the 2025.11 release onwards, users will no longer be able to change the publisherIDname once a device has been created and its identity is mapped. Attempts to change the publisherIDname after device creation will now result in an error.

This change applies to all device updates made through the ManageDeviceService SOAP API. It ensures data integrity, maintains accurate license tracking, and aligns device management with licensing policies, ultimately reducing the risk of license misallocation and improving compliance for customers.



Note ▪ *If a change to publisherIDname is necessary, the device must be deleted and recreated with the desired identity.*

Flexible Filtering for Null and Blank LicenseStatus Values

(SWM-29626)

Previously, querying the **/report/device** endpoint of the Data Access API (see [FlexNet Operations Data Access APIs](#)) with a filter for an empty LicenseStatus (for example, "\$eq": "") returned all devices, regardless of their actual LicenseStatus value. This behavior limited the ability to accurately filter devices based on missing or blank license information.

Starting with the 2025.11 release, the API now supports enhanced filtering logic for null and blank values in query parameters. This update work on the following operators:

- equalsTo
- notEqualsTo

These operators allow users to explicitly filter records where a specific field (such as LicenseStatus) is either null or blank, or explicitly not null or blank.

This enhancement enables precise filtering and therefore improves report accuracy and usability.

Example Usage

The following examples show how to filter device records where the LicenseStatus field is null or blank.

```
{"LicenseStatus":{"$eq": "" }}
{"LicenseStatus":{"$eq": null }}
{"LicenseStatus":{"$eq":"null"}}
```

The following examples show how to filter device records where the LicenseStatus field is explicitly not null or blank:

```
{"LicenseStatus":{"$ne": "" }}
{"LicenseStatus":{"$ne": null }}
{"LicenseStatus":{"$ne":"null"}}
```

Features and Enhancements in 2025.10

Features and enhancements were added to the following areas of FlexNet Operations in the 2025.10 release:

- [Dynamic Monetization Enhancements in 2025.10](#)
- [Device Management Enhancements in 2025.10](#)
- [Entitlement Management Enhancements in 2025.10](#)
- [User Experience Enhancements in 2025.10](#)

Dynamic Monetization Enhancements in 2025.10

The following enhancement for Dynamic Monetization was added in the 2025.10 release.

Unified Documentation for Dynamic Monetization

Starting October 2025, the Dynamic Monetization User Guide and API Reference have been merged into a single, comprehensive document. This update simplifies navigation and ensures a more cohesive experience for developers and users alike.

The consolidated documentation continues to be accessible from the Reverera Documentation site for [Dynamic Monetization](#). The link there—**Dynamic Monetization Documentation - Comprehensive Guide**—directs you to the new documentation site at <https://fnoapi-dynamicmonetization.redocly.app/>.

Throughout October, both the new combined documentation and the previous separate documents will be available. The older versions will be retired in November 2025. Please update your bookmarks and references accordingly.

Device Management Enhancements in 2025.10

The following enhancement to device management was added in the 2025.10 release.

Device Event Notifications to Include CLS Instance

(Case 03008370, FNE-22963)

Previously, when a device notification was triggered for a feature update, the notification included the relevant device ID and the state of the license update. However, it did not include information about the Cloud Licensing Service (CLS) instance where the update occurred. This made it difficult for producers to selectively update any middleware (for example, their own licensing database) with the relevant licensing information.

Starting with the 2025.10 release, producers can now receive real-time notifications that include the Cloud Licensing Service (CLS) instance ID whenever a CLS instance is updated (e.g., license or configuration changes). This enables producers to then trigger targeted **/features** requests to only those CLS instances, without increasing the load on other instances.

Implementation Details

A device event notification is generated for any update on a CLS instance. This includes license changes, configuration updates, or metadata modifications.

Each notification payload includes the unique device ID of the updated CLS instance.

Activating CLS Device Event Notifications

To receive device event notifications from a CLS instance, update the CLS configuration using the following API call:

```
PUT https://<siteID>-uat.compliance.flexnetoperations.com/api/1.0/instances/<CLS-instanceID>/configuration
```

Payload

In the payload, specify **true** to receive CLS device event notifications, or **false** to deactivate CLS device event notifications.

```
{
```

```

    "licensing.enableChangeNotification": "true"
  }

```

Sample Payload for a Cloud Licensing Service Device Event Notification

The following shows a sample payload that would be delivered to a webhook endpoint when a certain event occurs on a Cloud Licensing Service instance.

```

{
  "eventHeader": {
    "event": "CLS_INSTANCE",
    "eventType": "UPDATE",
    "userId": "producer",
    "tenant": "ADMN",
    "timeStamp": "1752645569000"
  },
  "eventBody": {
    "deviceName": "H6WF4YMBFGGK",
    "deviceId": "H6WF4YMBFGGK",
    "version": "4",
    "id": "434485",
    "siteName": null,
    "owner": null,
    "identity": null,
    "deploymentType": "CLOUD",
    "hostType": null,
    "status": "License Updated",
    "active": "Active",
    "notes": null,
    "errorMessage": null,
    "idtype": null,
    "lastUpdated": "1752645569000",
    "ownerName": null,
    "addOnInfoList": null
  }
}

```

Entitlement Management Enhancements in 2025.10

The following enhancement to entitlement management was added in the 2025.10 release.

Simplified Activation and Deactivation of Line Items in FlexNet Operations

(03038349, SWM-25089)

FlexNet Operations now offers a unified and streamlined operation that allows producers to seamlessly toggle the status of an entitlement line item between active and inactive states. This enhancement allows efficient control over license allocation without requiring manual interventions, significantly improving operational efficiency and user experience.



Important ▪ This enhancement is still under active development and may not perform consistently across all use cases. We advise using it with care and thoroughly validating any results it produces.

Overview

When a line item is marked Inactive, Cloud Licensing Service (CLS) instances will stop serving licenses associated with that line item. However, if the line item state is changed back to Deployed, the CLS instance will resume serving the license as usual.

This behavior is controlled by a new configuration option, **License server features will become inactive when the line item state is changed to Inactive** (under **System > Configure > FlexNet Operations > General Options**). This option is disabled by default. Enable the configuration option to use this new functionality.

The configuration **License server features will become inactive when the line item state is changed to Inactive** can only be enabled if both the following two configurations are disabled:

- **Remove licenses from CLS when the line item state changes to Inactive/Obsolete**
- **Allow used entitlement/line item state change to Inactive or Obsolete.**

Attempting to enable this setting while either of the above configurations is active will result in a conflict. In such cases, the following error message is displayed:

"You can only enable either 'License server features will become inactive when the line item state is changed to Inactive' or 'Remove licenses from CLS when the line item state changes to Inactive/Obsolete' or 'Allow used entitlement/line item state change to Inactive or Obsolete'."

Behavior When Configuration is Enabled

When the configuration **License server features will become inactive when the line item state is changed to Inactive** is enabled and you make a line item associated with the CLS instance inactive, the **/features** endpoint will reflect this change.

Specifically, when **/features** is called with the `includeInactive` parameter, the response will indicate that the feature status for the line item is marked as Inactive.



Important ▪ Enabling both the **License server features will become inactive when the line item state is changed to Inactive** setting and the **Enable feature count aggregation** option (located under **System > Configure > FlexNet Operations > Embedded Device Settings**) can prevent users from marking certain individual line items as Inactive. For this reason, Revenera strongly advises against activating both configurations simultaneously.

Obsoleting Line Items

When **License server features will become inactive when the line item state is changed to Inactive** is enabled, FlexNet Operations will not allow the line item state to be changed to Obsolete. If an attempt is made to do so, an error message will be triggered:

"You cannot set the line item state to Obsolete while the configuration 'License server features will become inactive when the line item state is changed to Inactive' is enabled. Disable this configuration to proceed."

Limitations

Feature deactivation is not supported when using feature aggregation. Therefore, the configuration option **Enable feature count aggregation** must be deselected (under **System > Configure > FlexNet Operations > Embedded Device Settings**).

User Experience Enhancements in 2025.10

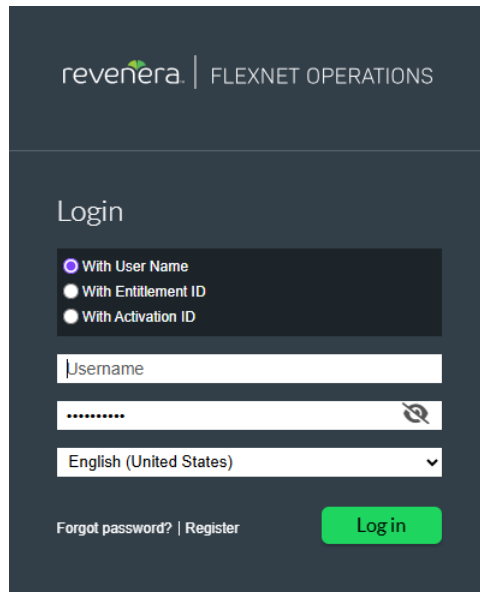
The following user experience enhancement was added in the 2025.10 release.

Enhanced Login Experience in End-User Portal

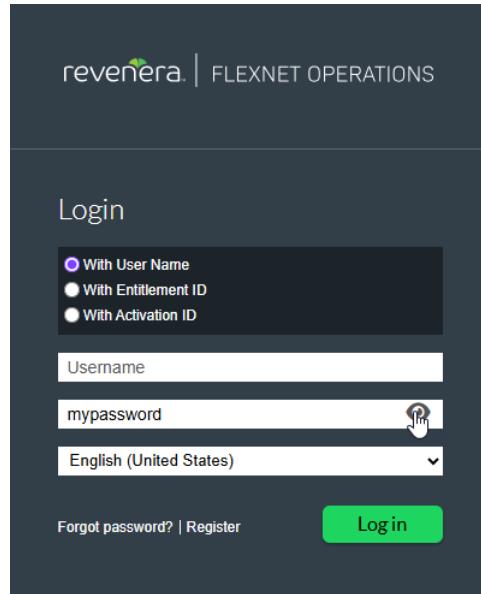
(Case 02820421, SWM-25340)

The login screen now includes a password visibility toggle to improve usability and reduce login errors. Users can press and hold the new eye icon to temporarily reveal their password:

- **Closed eye icon** (default): Password is hidden

The image shows a screenshot of the FlexNet Operations login interface. At the top, the 'revenera' logo is followed by 'FLEXNET OPERATIONS'. Below this is a 'Login' section. It features three radio buttons for login methods: 'With User Name' (selected), 'With Entitlement ID', and 'With Activation ID'. There are input fields for 'Username' and 'Password'. The password field is currently masked with dots and has a small eye icon to its right, which is the 'Closed eye icon' mentioned in the text. Below the password field is a dropdown menu showing 'English (United States)'. At the bottom left, there are links for 'Forgot password?' and 'Register'. At the bottom right, there is a green 'Log in' button.

- **Open eye icon** (while pressed): Password is visible



The screenshot shows the FlexNet Operations login interface. At the top, the 'revenera' logo is followed by 'FLEXNET OPERATIONS'. Below this is a 'Login' section. It features three radio buttons: 'With User Name' (selected), 'With Entitlement ID', and 'With Activation ID'. Below the radio buttons are three input fields: 'Username', 'mypassword', and a dropdown menu set to 'English (United States)'. A green 'Log in' button is positioned to the right of the password field. Below the input fields, there are links for 'Forgot password?' and 'Register'.

This enhancement enables users to confirm the password they've entered, which is especially helpful in avoiding mistakes caused by caps lock, keyboard locale changes, or other typing errors.

Features and Enhancements in 2025.09

This section lists new capabilities, features and enhancements that were introduced in the 2025.09 release. New capabilities are introduced first, see [New Capabilities in 2025.09](#).

As part of this release, we are also providing an early advisory regarding a potential configuration conflict. See [Early Notice for Possible Configuration Conflict](#) for details.

Features and enhancements were added to the following areas of FlexNet Operations in the 2025.09 release:

- [Device Management Enhancements in 2025.09](#)
- [Entitlement Management Enhancements in 2025.09](#)
- [Export and Import Enhancements in 2025.09](#)
- [SOAP and REST Web Services Enhancements in 2025.09](#)
- [User Experience Enhancements in 2025.09](#)

New Capabilities in 2025.09

In the 2025.09 release, FlexNet Operations introduces the following new capability:

- [Enhanced Visibility into Cloud Licensing Service Instance Details and Features](#)

Enhanced Visibility into Cloud Licensing Service Instance Details and Features

The Producer Portal and End-User Portal now feature an upgraded interface that provides extended visibility into Cloud Licensing Service (CLS) instances.

The new built-in, intuitive user interface offers a clearer view of features, licenses and devices, which simplifies license operations for both producers and customers.

As an out-of-the-box solution, the interface eliminates the need for producers to develop custom UIs—reducing overhead, accelerating time-to-value, and helping customers better understand entitlement purchases and usage.

Key Enhancements

- Producer Portal and End-User Portal users can now view Cloud License Server information equivalent to that available for Local License Servers in the FlexNet License Server Manager.
- Clicking a Cloud License Server device name on the **Devices** page opens a redesigned page with a tabbed layout.

Tabbed Interface Breakdown

This release introduces the following new tabs. Click on the relevant link to jump to the section:

- [Overview Tab](#)
- [Features Tab](#)
- [Active Clients](#)
- [Named License Pools](#)



Note ▪ The pages to display device information for standalone devices, served devices and local license servers remain unchanged.

Overview Tab

The **Overview** tab displays the same server information previously shown on the **View Server** page. This tab is selected by default.

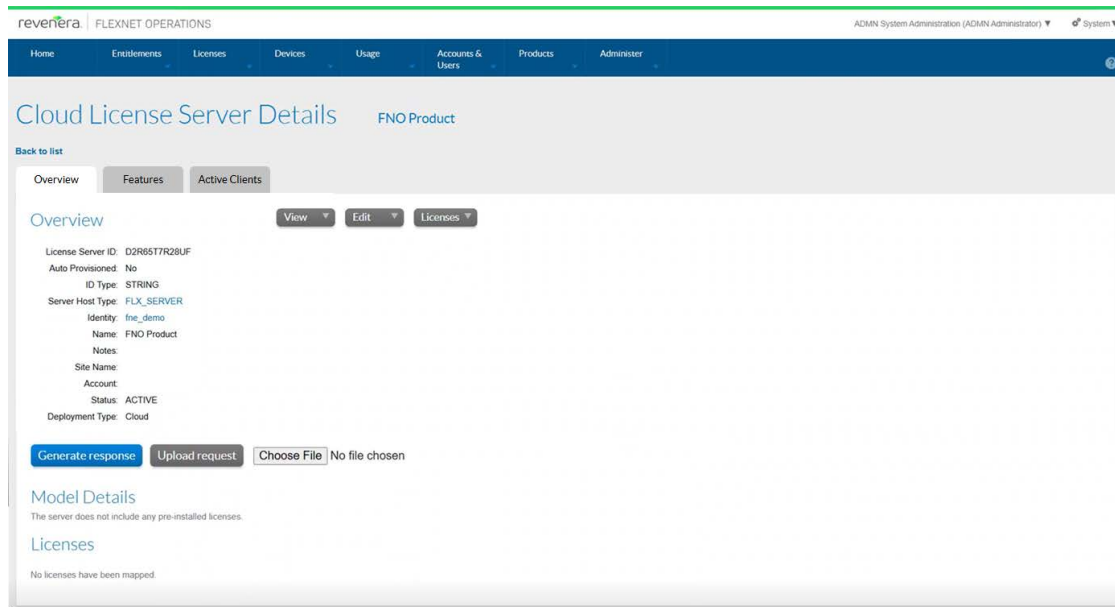


Figure 1: Example of the **Overview** tab with information for a Cloud License Server.



Note - No changes have been made to the commands available from the **View**, **Edit**, and **Licenses** menus on this page.

Features Tab

The **Features** tab contains two subtabs: **Summary** and **Details**. The **Details** tab can also display a detailed feature view. Use the following links to jump to each section:

- [Summary Tab](#)
- [Details Tab](#)
- [Details Tab - Feature View](#)

Summary Tab

The **Summary** tab (default view) provides a consolidated view of feature usage on the license server. It groups feature records by feature name, summing up counts across different entitlements, activations, or product associations. This view is ideal for high-level monitoring and reporting. The individual columns are described in the following table:

Column	Description
Feature	The name of the feature or capability available on the license server.
Version	The version number of the feature.
Total Count	The total number of license units available for this feature across all entitlements and activations.

Column	Description
Total Used	The number of license units currently checked out or in use by clients.
Total Available	The number of license units still available for checkout. Calculated as Total Count minus Total Used.
First Expiration	The earliest expiration date among all line items for this feature. Helps identify the soonest expiring entitlement.
Last Expiration	The latest expiration date among all line items for this feature. Indicates the longest validity period.
Total Overdraft	The number of overdraft units used, if any. Overdrafts allow usage beyond the entitled count under specific conditions.
Metered	Indicates whether the feature is metered (usage is tracked and reported) or not.
Counted	Indicates whether the feature is counted (limited by quantity) or uncounted (unlimited usage allowed).

This screenshot shows the layout of the **Features** tab with the **Summary** subtab:

Feature	Version	Total Count	Total Used	Total Available	First Expiration	Last Expiration	Total Overdraft	Metered	Counted
r1Demo	2.0	20	0	20	2025-06-30	2025-06-30	0	false	true
r2Demo	2.0	15	5	10	2025-07-15	2025-07-15	1	true	true
r3Demo	2.0	30	10	18	2025-08-01	2025-08-01	2	false	false
r4Demo	2.0	25	8	17	2025-09-10	2025-09-10	0	true	true

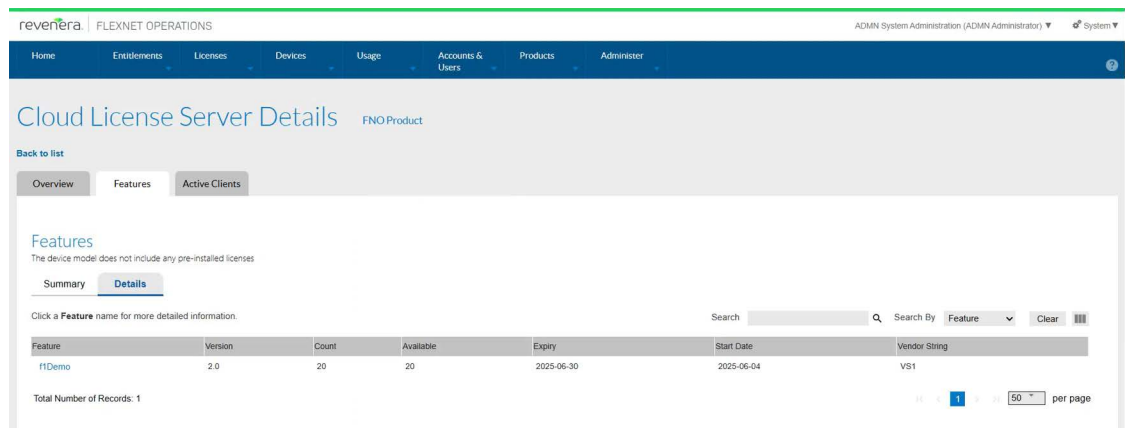
Details Tab

The **Details** tab displays all individual feature records as they exist on the license server. This granular view helps in troubleshooting, auditing, and understanding how licenses are distributed. The following table gives details about each column:

Column	Description
Feature	The name of the feature or capability. Each row represents a distinct record, even if the feature name is the same.

Column	Description
Version	The version of the feature. This helps differentiate between multiple releases of the same feature.
Count	Number of license units allocated for this specific feature record.
Available	The number of license units still available for checkout from this record.
Expiry	The expiration date of this feature record. If marked as permanent, the feature does not expire.
Start Date	The date from which this feature record becomes valid and available for use.
Vendor String	Optional metadata defined by the producer, often used for filtering or categorization.

This screenshot shows the layout of the **Features** tab with the **Details** subtab:



Details Tab - Feature View

Clicking a hyperlinked feature name on the **Details** subtab opens a detailed view for the selected feature. The view includes the following fields:

Column	Description
Feature Name	The name of the feature or capability.
Version	The version of the feature. This helps differentiate between multiple releases of the same feature.
Start Date	The date from which this feature record becomes valid and available for use.
Total Count	The total number of license units available for this feature across all entitlements and activations.

Column	Description
Available	The number of license units still available for checkout from this record.
Used Count	The count currently being used.
Reserved Count	The number of reserved licenses within the used count.
Vendor String	Optional metadata defined by the producer, often used for filtering or categorization.
Feature Expiry	The expiration date of this feature record. If marked as permanent, the feature does not expire.

The feature view also includes an **Active Clients** section, which lists the active client devices that currently have counts from this feature currently checked out. The following information is provided:

Column	Description
Device ID	The ID identifying the device that has count checked out.
Device ID Type	The device host ID type.
Device Type	The device on which the feature is used (client, served client, or license server).
Device Alias	A user-defined name (sometimes called host name) for the device.
Total Count Served	The total count served to the device.
Expiry	The expiration date of this feature record on the device. If marked as permanent, the feature does not expire.

This screenshot shows the **Features** tab with detailed information for a selected feature:

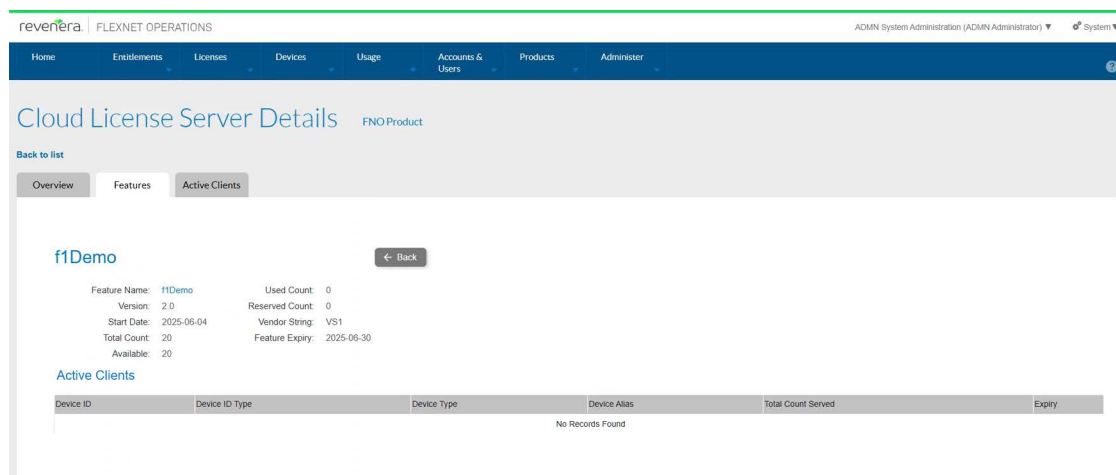


Figure 2: Example of a detailed view for a selected feature.

Users can click the **Back** button to return to the **Details** subtab.

Active Clients

The **Active Clients** tab displays the client devices recognized by the license server as having been served licenses from the server's shared pool or from licenses reserved for the client. Each client is identified by its device ID, the ID type, and the device type—physical, virtual, or unknown. In addition, a device alias might be displayed if this has been set on the device. (A device alias is also sometimes referred to as a device name or host name. It is a human-readable alias—in contrast to the `hostid`—which can optionally be included in a capability request.)

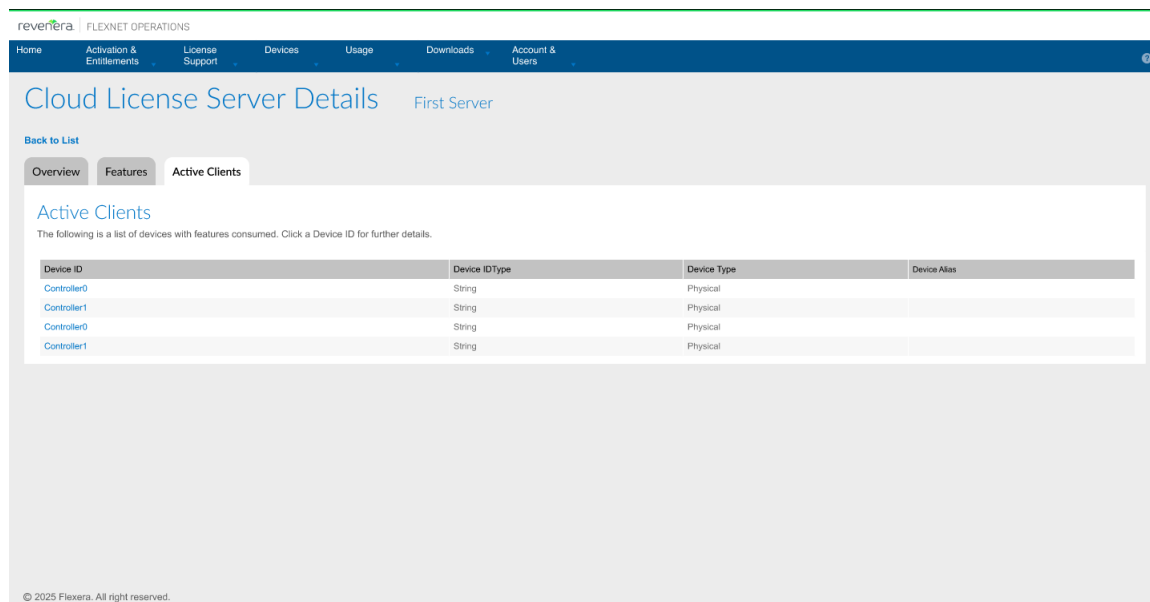


Figure 3: Example of the active clients overview.

When you click the device ID for a specific client, a detailed view opens, showing details about the client device and the list of features currently served to the client. (Click **Back** to exit the page.)

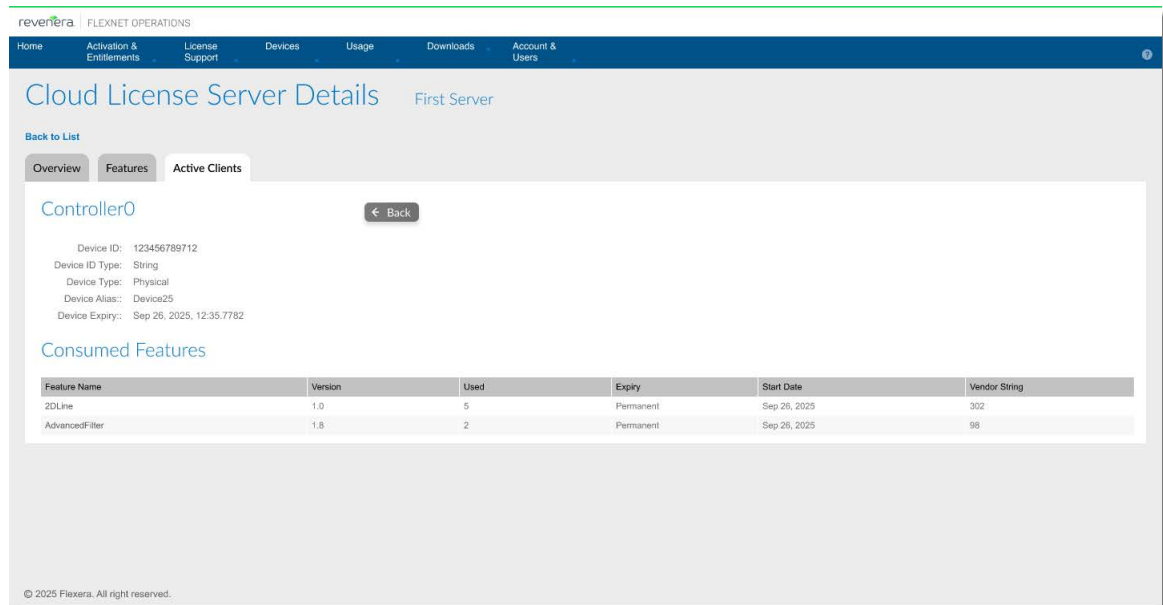


Figure 4: Example of a detailed view of an active client.

Note that the **Device Expiry** field shows the timestamp when all currently checked-out features will expire on the device. This timestamp is determined either by the borrow expiration for the checked-out concurrent features or the final expiration date (as defined in the back office) for checked-out metered features.

The **Expiry** field for a feature in the **Consumed Features** list shows its final expiration date as defined in the back office.

Named License Pools

The **Named License Pools** tab is divided into the **Existing License Pools** and **Upload Model File** subtabs. The **Existing License Pools** subtab displays the list of named license pools that have been defined on the CLS instance as well as the default license pool.

When you click a license pool name, the view expands to show details about the features that are currently included in the license pool.

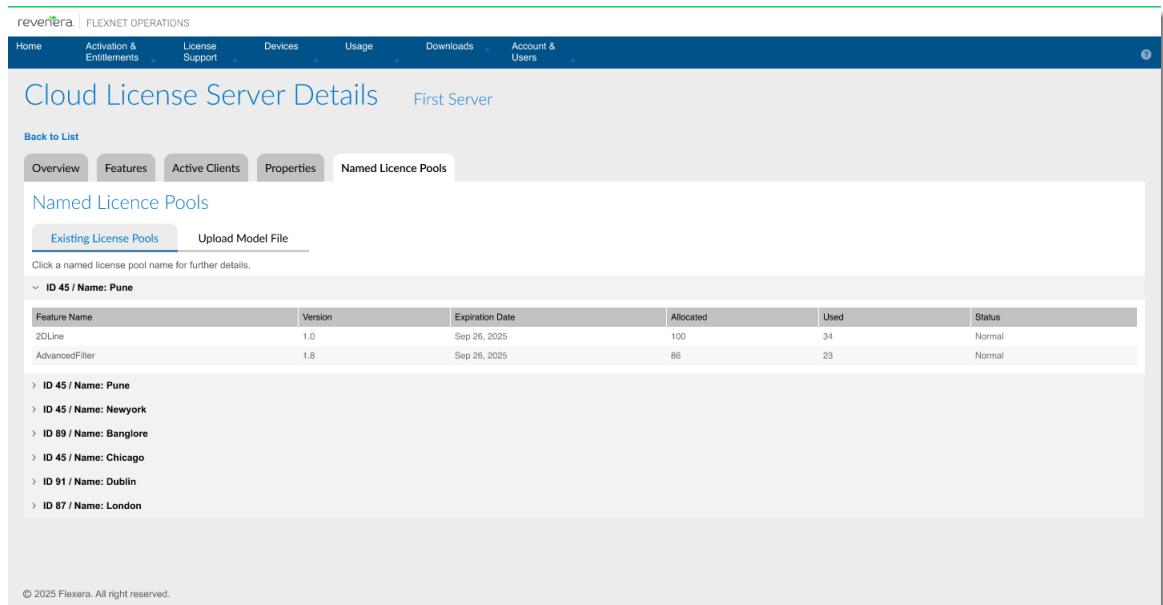


Figure 5: Example of the **Named License Pools** view.

The **Upload Model File** tab displays the model definition that is currently active on the license server. The model definition specifies the license pools and the rules of access that define how licenses are allocated to license pools (named or default).

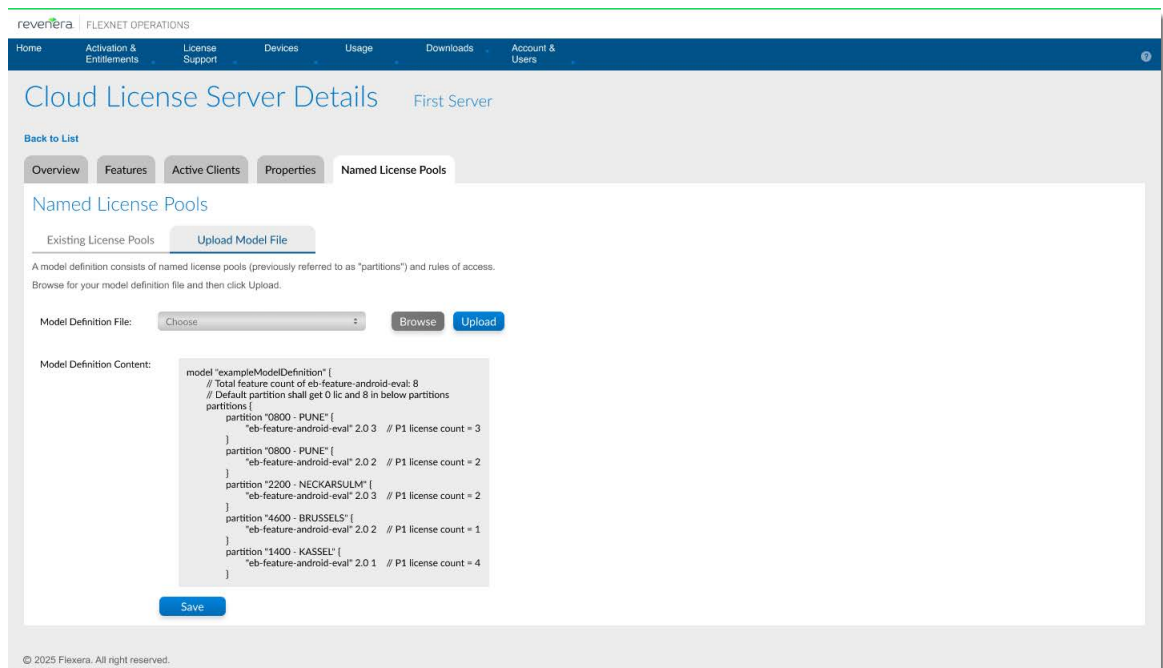


Figure 6: Example of the view for uploading a model definition.

To change the model definition, browse for the model definition that you want to use by clicking **Browse** and then click **Upload**.

Early Notice for Possible Configuration Conflict

Revenera is working to enhance the behavior of entitlement line items when toggled between Active and Inactive states. As part of this effort, a new configuration option **License server features will become inactive when the line item state is changed to Inactive** has been introduced (under **System > Configure > FlexNet Operations > General Options**).

This configuration is currently under development and not yet fully functional. It is disabled by default.

This new option is interdependent with the following existing configurations:

- **Remove licenses from CLS when line item state is changed to Inactive/Obsolete**
- **Allow used entitlement/line item state change to Inactive or Obsolete**

Starting with the 2025.09 release, the above configuration options cannot be enabled simultaneously. If more than one is selected, the system will display the following error message:

"You can only enable either 'License server features will become inactive when the line item state is changed to Inactive' or 'Remove licenses from CLS when the line item state changes to Inactive/Obsolete' or 'Allow used entitlement/line item state change to Inactive or Obsolete'."

Customers encountering this error message should verify their configuration settings to ensure that only one of the configuration options is enabled—either **Remove licenses from CLS when line item state is changed to Inactive/Obsolete** or **Allow used entitlement/line item state change to Inactive or Obsolete**—but not both.

Device Management Enhancements in 2025.09

The following enhancement to device management was added in the 2025.09 release.

New Job “Obsolete Inactive Devices”

(SWM-27146)

The 2025.09 release introduces a new job, Obsolete Inactive Devices. This job enables producers to mark any devices as Obsolete that have not been updated within a specified period of inactivity. This feature is particularly useful for generating accurate analytics reports that reflect only active devices.

Devices are evaluated based on their Last Modified date. Any device that exceeds a configured inactivity threshold will be updated to an Obsolete status.

The inactivity threshold is defined using the new configuration option **Device inactivity period** (under **System > Configure > FlexNet Operations > Embedded Device Settings**).

The value must include a number followed by a time unit:

- D = Days
- W = Weeks
- M = Months
- Y = Years

Examples for Configuration Values

- **2Y**—Devices not modified in the last 2 years will be marked obsolete.
- **20W**—Devices inactive for 20 weeks will be marked obsolete.

Setting up the Obsolete Inactive Devices Job

You can access the Obsolete Inactive Devices job on the **Configure Alerts/Jobs** page (available by clicking **Administer > Configure Alerts/Jobs**).

To activate the job:

- On the **Configure Alerts/Jobs** page, change its status to Active.
- Set the configuration option **Device inactivity period** to the desired value.

Important Notes for the Obsolete Inactive Devices Job

Marking a device as Obsolete is a permanent action and cannot be undone. Use this job with caution, especially in production environments. To help prevent accidental obsolescence, the following safeguards are in place:

- The Obsolete Inactive Devices job is disabled by default.
- The default device inactivity period is set to 100 years (**100Y**).

Entitlement Management Enhancements in 2025.09

The following enhancement to entitlement management was added in the 2025.09 release.

Assigning Account When Processing Capability Requests Without User-Related Information

(SWM-23219)

When a capability request that does not include an enterprise ID or activation ID is uploaded to the End-User Portal, FlexNet Operations creates the corresponding device. However, the device does not appear on the End-User Portal's **Devices** page, because it is created without an associated account.

This release introduces an enhancement that changes this behavior: When a capability request is uploaded via the End-User Portal, the device can now be automatically assigned to the account of the logged-in user, ensuring it is visible on the **Devices** page.

Behavior Details

The following happens when uploading a capability request without user-related information in the End-User Portal (under **Devices > Offline License Management**):

- If the logged-in user is associated with a single account, a dropdown menu is displayed with that account pre-selected.

The screenshot shows the 'Offline Device Management' page. At the top is a navigation bar with links: Home, Entitlements, Licenses, Devices, Usage, Accounts & Users, and Products. Below the navigation bar is the page title 'Offline Device Management' and a sub-header: 'Manually upload either a Capability Request or Synchronization History Files for offline processing. The application will offer you a response file to download.'

The 'Upload type:' section has two radio buttons: 'Generate license or confirm license reduction or return' (selected) and 'Upload synchronization history'. Below this is a 'Choose File' button followed by the text 'reqserverEP...ntDetails.bin'.

The 'Account ID:' field is a dropdown menu with 'dkaccount' selected. A red rectangle highlights this dropdown menu.

At the bottom is a blue 'Upload' button.

Figure 7: The new **Account ID** dropdown menu shows the account that the user will be associated with.

- If the logged-in user is associated with multiple accounts, the dropdown menu lists all associated accounts. The user can then select the appropriate account to associate with the device.

This screenshot shows the same 'Offline Device Management' page, but the 'Account ID:' dropdown menu is open, displaying a list of accounts. The list includes: 'Select Account Id' (at the top), 'MYORG', 'PORTAL_ORG_UNIT', 'ACMES', 'WILY', 'ROADR', 'Aberdeen', 'Alpha-311', 'Bravo5', 'Callaway', and 'Charlie'.

The 'Upload' button is visible at the bottom left of the form area.

Figure 8: Using the **Account ID** dropdown menu, the user can select the account to be associated with the device.

Enabling New Behavior

By default, this new behavior is disabled. Producers who wish to enable it should contact Reverera Support to request the necessary configuration change.



Note - When the configuration option **Allow Server Without Activation IDs** is enabled, FlexNet Operations can process capability requests generated by a FlexNet Embedded local license server that do not include an activation ID.

Export and Import Enhancements in 2025.09

The following enhancement involving the Data Export and Import functionality was added in the 2025.09 release.

Removing Field Values for Download Packages Using the Download Packaging Template

(02840821, SWM-22856)

Producers can now remove values from any string-accepting fields in the Download Packages template by entering "NULL" or "null" in the desired field. During import, these entries will result in blank fields, effectively clearing the original content.

In previous releases, it was not possible to remove values using the Download Package template. Leaving fields empty during import would retain existing values. This behavior made it challenging for producers to clear values in bulk.

This enhancement applies to all non-mandatory columns that can accept a null string, for example, ExtendedDescription, Version, ReleaseGroup, and DownloadInstructions (non-exhaustive list).

To determine whether a column supports null string values, refer to the column's note. Any column designated to accept string input will also accept "NULL" or "null" to clear its value.

For any columns left blank in the Download Packages template, the previous behavior is unchanged. If a column is left blank or is removed from the template, the existing value will be retained.

SOAP and REST Web Services Enhancements in 2025.09

The following enhancement was added to the SOAP and REST Web Services module in the 2025.09 release.

Retrieving Devices Not Associated to Any Account

(Case 02874971, SWM-21765)

The 2025.09 release now enables producers to retrieve devices or servers that are not linked to any account, expanding flexibility in device management workflows.

In the ManageDeviceService SOAP web service (version 7), a new enum value IS_EMPTY has been added to the **simpleSearchType** for the **searchDevices** SOAP request. This allows searching for devices where **soldToAcctId** is blank.

Usage Example

To use the new IS_EMPTY searchType in a **searchDevices** request:

```

<urn:soldToAcctId>
  <urn:value></urn:value>
  <urn:searchType>IS_EMPTY</urn:searchType>
</urn:soldToAcctId>

```

Note that the <urn:value> field must remain empty for the query to work as intended.

For detailed information about the changes made to the v7/manageDeviceTypes.xsd file, see the [Change Log for 2025.09](#).

Sample Request and Response for searchDevices

The following shows sample code for a **searchDevices** request.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:urn="urn:v7.fne.webservices.operations.flexnet.com">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:searchDevicesRequest>
      <urn:queryParams>
        <urn:deviceClasses>
          <urn:deviceClass>CLIENT</urn:deviceClass>
        </urn:deviceClasses>
        <urn:soldToAcctId>
          <urn:value></urn:value>
          <urn:searchType>IS_EMPTY</urn:searchType>
        </urn:soldToAcctId>
        <urn:status>
          <urn:value>ACTIVE</urn:value>
          <urn:searchType>EQUALS</urn:searchType>
        </urn:status>
        <urn:lastModifiedDate>
          <urn:value>2024-06-14</urn:value>
          <urn:searchType>AFTER</urn:searchType>
        </urn:lastModifiedDate>
      </urn:queryParams>
      <urn:responseConfig>
        <urn:name>true</urn:name>
        <urn:soldTo>true</urn:soldTo>
      </urn:responseConfig>
      <urn:sortBy>
        <urn:sortBy>
          <urn:sortKey>LAST_MODIFIED_DATE</urn:sortKey>
          <urn:ascending>true</urn:ascending>
        </urn:sortBy>
      </urn:sortBy>
      <urn:pageNumber>1</urn:pageNumber>
      <urn:batchSize>25</urn:batchSize>
    </urn:searchDevicesRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

The following shows sample code for a **searchDevices** response.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
  instance">
  <soapenv:Body>

```

```

<searchDevicesResponse xmlns="urn:v7.fne.webservices.operations.flexnet.com">
  <statusInfo>
    <status>SUCCESS</status>
  </statusInfo>
  <devices>
    <device>
      <deviceId>
        <id>Cloud purpose</id>
        <idType>ETHERNET</idType>
        <publisherName>fnetest</publisherName>
        <deviceClass>CLIENT</deviceClass>
      </deviceId>
      <name>Test_5_Aug</name>
      <lastModified>2024-08-05T11:30:37.333Z</lastModified>
    </device>
    <device>
      <deviceId>
        <id>a</id>
        <idType>STRING</idType>
        <publisherName>fnetest</publisherName>
        <deviceClass>CLIENT</deviceClass>
      </deviceId>
      <name>a</name>
      <lastModified>2024-08-15T15:37:57.103Z</lastModified>
    </device>
  </devices>
</searchDevicesResponse>
</soapenv:Body>
</soapenv:Envelope>

```

User Experience Enhancements in 2025.09

The following user experience enhancement was added in the 2025.09 release.

Selective Retriggering of Failed Bulk Operations for FlexNet Publisher Entitlements

(Case 02840512, SWM-28102)

In the 2025.07 release, an enhancement was introduced to the **Bulk Operations** page, which would now list failed upgrade lines along with their failure reasons. This improvement allowed administrators to quickly identify and selectively reprocess only the failed items. For details, see [Selective Retriggering of Failed Bulk Operations for FlexNet Publisher Entitlements](#).

Initially, this functionality was available exclusively for entitlements using FlexNet Embedded.

As of the 2025.09 release, the same capability has been extended to entitlements using FlexNet Publisher, ensuring consistent handling of bulk operation failures across both entitlement types.

On the **Bulk Operations** page, administrators can rerun failed upgrade jobs using the following methods:

- Retrigger a single job: Click the new **Retry** icon next to a failed job entry.

- Retrigger multiple jobs: Select the checkboxes for multiple failed jobs and click the new **Retry** button (located above the table).

Features and Enhancements in 2025.08

Features and enhancements were added to the following areas of FlexNet Operations in the 2025.08 release:

- [Data Analytics Enhancements in 2025.08](#)
- [Device Management Enhancements in 2025.08](#)
- [Entitlement Management Enhancements in 2025.08](#)
- [User Experience Enhancements in 2025.08](#)

Data Analytics Enhancements in 2025.08

The following enhancements were made to the Analytics functionality in 2025.08.

- [Enhanced Visibility in License Server Usage and Denials Report](#)
- [Bundle Information in Product-Feature View](#)

Enhanced Visibility in License Server Usage and Denials Report

(Case 02993983, SWM-25566)

To improve clarity and contextual understanding for customers, the License Server Usage and Denials report (available from the **Analytics** menu) now includes two new fields: **SITE_NAME** and **DESCRIPTION**.

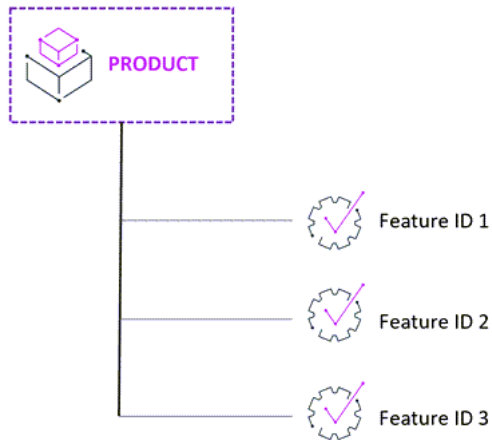
The new fields, part of the **usage** entity, can also be extracted using a data share or the [Data Access API](#) (DAPI).

These additions help users quickly identify where license usage is occurring and what each site represents, making it easier to audit, analyze, and manage license consumption across environments.

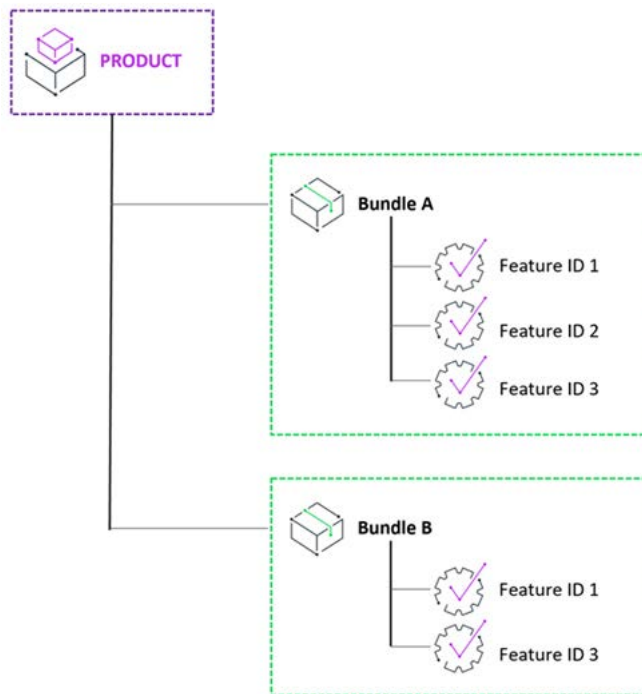
Bundle Information in Product-Feature View

(SWM-28187)

Previously, producers wanting to build a report that presented all the features used in a product could only produce a simple view, where each product was linked directly to individual features:



To address this, new fields have been added to the Data Warehouse, with a hierarchical, bundled structure:



The new fields can be extracted using a data share or the [Data Access API \(DAPI\)](#).

The following table lists the new fields which are part of the **product-feature** entity:

Field Name in DAPI	Field Name in Data Share	Description
FeatureBundleName	FEATUREBUNDLE_NAME	The name of the feature bundle.
FeatureBundleDescription	FEATUREBUNDLE_DESCRIPTION	The description of the feature bundle.

Field Name in DAPI	Field Name in Data Share	Description
BundleFeatureRelationFeatureID	BUNDLE_FEATURE_RELATION_FEATURE_ID	The feature ID of the feature that is included in the bundle.
BundleFeatureDeleted	BUNDLE_FEATURE_DELETED	Indicates the relationship between the feature and the bundle: ● Y: Feature was removed from the bundle. ● N: Feature still included in the bundle.

Customer Benefits

- **Layered Insight**—Understand both high-level capability (via bundles) and granular functionality (via features) without navigating multiple systems.
- **Better Discoverability**—Easily trace which features belong to which bundles—and which bundles are tied to which products.

Device Management Enhancements in 2025.08

The following enhancement to device management was added in the 2025.08 release.

Devices Template Enhancements: Bulk Device Creation

(Case 02880444, SWM-27074)

In the third iteration of the Devices Template enhancements, a new worksheet named **CreateHost** has been introduced. This addition streamlines the creation of devices and servers via Excel import, eliminating the need for manual entry — which is often time-consuming and error-prone.

Producers would perform the following steps to create devices in bulk using the updated template:

1. Navigate to **Administer > Import Data Objects** and select the **Data Import Templates** tab.
2. Click the hyperlinked name of the **Devices Template** to download it.
3. Open DevicesTemplate.xlsx and locate the **CreateHost** sheet. Provide relevant details for each device or server. The following details can be specified:
 - Host ID
 - Host alias
 - Identity
 - Publisher name
 - Host class
 - Server deployment type
 - Host ID type

- Host model
- Account ID
- Site name
- Notes
- User ID
- Backup server ID



Note - In the template, column headers formatted in bold indicate mandatory fields.

4. Save the populated spreadsheet as a Unicode .txt file.
5. Return to the **Import Settings** tab on the **Import Data Objects** page and upload the .txt file to import the new entities (see also [Importing Entities](#) in the FlexNet Operations User Guide).

This screenshot shows an example of a populated template:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	TransactionType	HostID	HostAlias	Identity	PublisherName	HostClass	ServerDeploymentType	HostIDType	HostModel	AccountID	SiteName	Notes	UserID	BackupServerID
1	CreateHost	a123456789	dev_5019		fnedemo	CLIENT	LOCAL	STRING		Acc_123456				
2	CreateHost	k258147369	dev_5051		fnedemo	CLIENT	LOCAL	STRING		Acc_123456				
3	CreateHost	z963852741	dev_5087		fnedemo	CLIENT	LOCAL	STRING		Acc_123456				
4	CreateHost	k159487263	dev_5098		fnedemo	CLIENT	LOCAL	VM_UUID		Acc_887795				
5	CreateHost	326598741p	dev_5074		fnedemo	CLIENT	LOCAL	STRING		Acc_887795				
6	CreateHost	host_KS_73	mach_797		fnedemo	SERVER	CLOUD	ETHERNET		Acc_123456				

Entitlement Management Enhancements in 2025.08

The following enhancements to entitlement management were added in the 2025.08 release.

Ability to filter out expired activation id from Entitlement emails

(Cases 02429882, 02449414; SWM-9903)

They have an use case where they co-term an entitlement - involves adjusting subscriptions so that they all come up for renewal at the same time.

When they send the entitlement email, they would only like to send out active activation IDs on the entitlement and filter out expired line items.

I am trying with XSL (as a workaround), but it is not an easy template.

It would be nice to be able to only list activation IDs that are current. We can filter out line items based on line item state (draft is never included but inactive/obsolete will be unless explicitly excluded) but not expiration. This would be a nice feature to have for all customers.

User Experience Enhancements in 2025.08

The following user experience enhancement was added in the 2025.08 release.

Monitoring Status of FlexNet Publisher Bulk Upgrade Jobs

(Case 02840512, SWM-27668)

Producers can now monitor the status of upgrade bulk operations for FlexNet Publisher licenses.

Clicking the **Status** column on the **Entitle Customers To Licenses | Bulk Operations** page (under **Entitlements > Bulk Operations**) for a FlexNet Publisher bulk operation opens the **Bulk Job Status** dialog, which displays the progress of mapping activation IDs from parent activation IDs to corresponding child activation IDs.

The following table outlines how the columns in the **Bulk Job Status** dialog will be populated based on the outcome of the bulk job and the auto-fulfill configuration.

Scenario	Parent Activation ID	Child Activation ID	Auto-Fulfill
Upgrade successful, no auto-fulfill	Populated	Populated	Blank
Upgrade successful, with auto-fulfill	Populated	Populated	Success or Failure
Upgrade failed	Populated	Blank	Failure

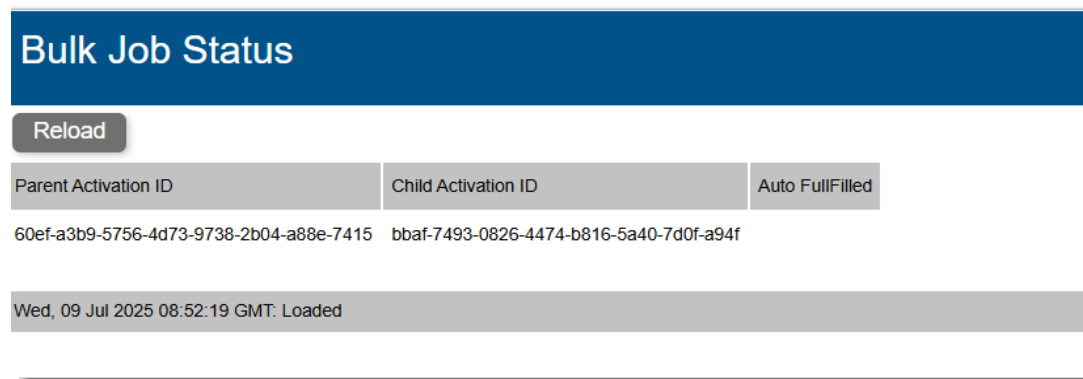


Figure 9: Example of the **Bulk Job Status** dialog for a successful upgrade without auto-fulfill

Features and Enhancements in 2025.07

Features and enhancements were added to the following areas of FlexNet Operations in the 2025.07 release:

- [Data Analytics Enhancements in 2025.07](#)
- [SOAP and REST Web Services Enhancements in 2025.07](#)
- [User Experience Enhancements in 2025.07](#)

Data Analytics Enhancements in 2025.07

The following enhancements were made to the Analytics functionality in 2025.07.

- [Adoption Trend Reports in Analytics](#)
- [Usage Expiry Data Available in Data Access API and Analytics Reports](#)
- [Logging of Recent Downloads for Updates Downloaded By Devices](#)

Adoption Trend Reports in Analytics

(SWM-27312)

The main dashboard within the Analytics functionality (available by clicking **Analytics > Analytics Dashboard**) has been redesigned to deliver more targeted and actionable insights. It now helps users across functions—such as Sales, Renewals, Product, and Marketing—track adoption trends across key entities. The charts and reports highlight activities including new account creation, user onboarding, entitlement creation, product usage, and activations. This enhanced visibility enables teams to monitor how users and organizations adopt your platform and get actionable insights to make data-driven product decisions.

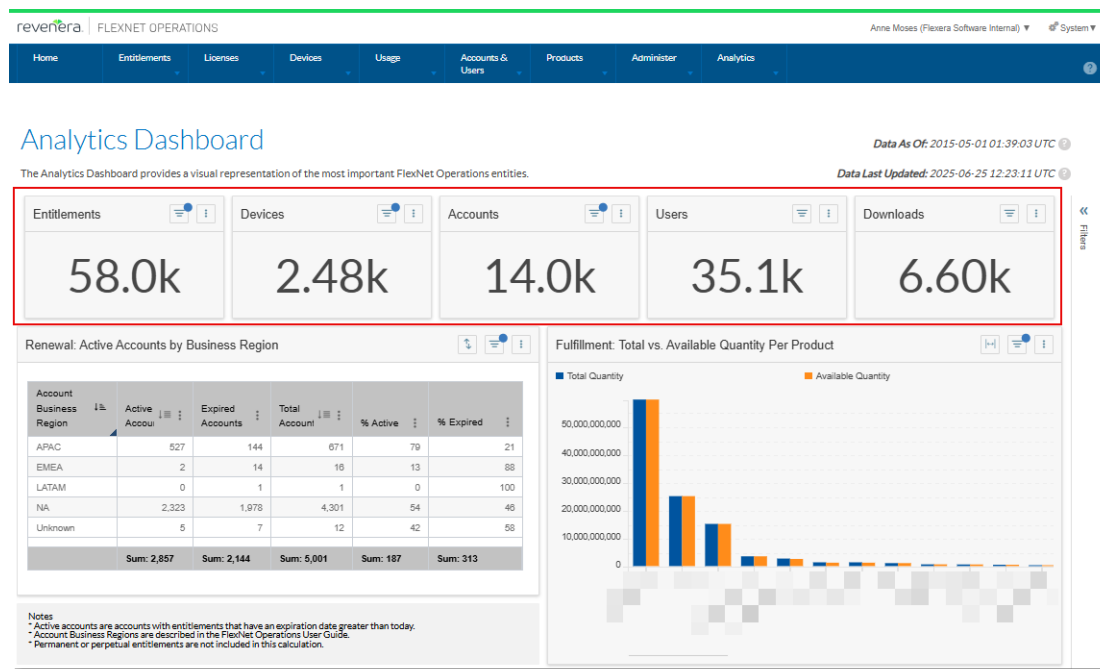


Figure 10: The Analytics Dashboard with redesigned tiles (cropped view).

All tiles in the dashboard are now clickable. Clicking a tile will drill through to a detailed report with charts and tables that give a clearer picture of the relevant entities.

The dashboard includes the following tiles:

- [Entitlements](#)
- [Devices](#)
- [Accounts](#)

- [Users](#)
- [Downloads](#)



Note - By default, the data for all dashboard tiles is filtered to show a 12-month period, but this can be adjusted to meet specific reporting needs. To change the filter, open the **Filters** panel on the right side of the screen and scroll down to the **CREATE_DATE**. Click the **CREATE_DATE** filter and adjust it as required.

Entitlements

The **Entitlements** tile displays the total number of entitlement line items created in the past 12 months.

How Entitlements Graphs Benefit You

Tracking the trend of entitlements created each month (see chart “[Entitlement Line Items](#)”) and cumulative entitlement line items (see chart “[Cumulative Entitlement Line Items](#)”) provides valuable visibility into customer adoption and product engagement.

Filtering entitlements by account helps identify how individual customers are adopting your product. This enables your Customer Success and Operations teams to:

- Tailor engagement strategies.
- Identify accounts needing support.
- Identify upsell opportunities.
- Monitor onboarding effectiveness.

Analyzing entitlements by product or product line gives Product Management insights into:

- Which offerings are gaining traction.
- Which products may need repositioning or enhancement.
- Opportunities to refine pricing, packaging, or feature bundling.

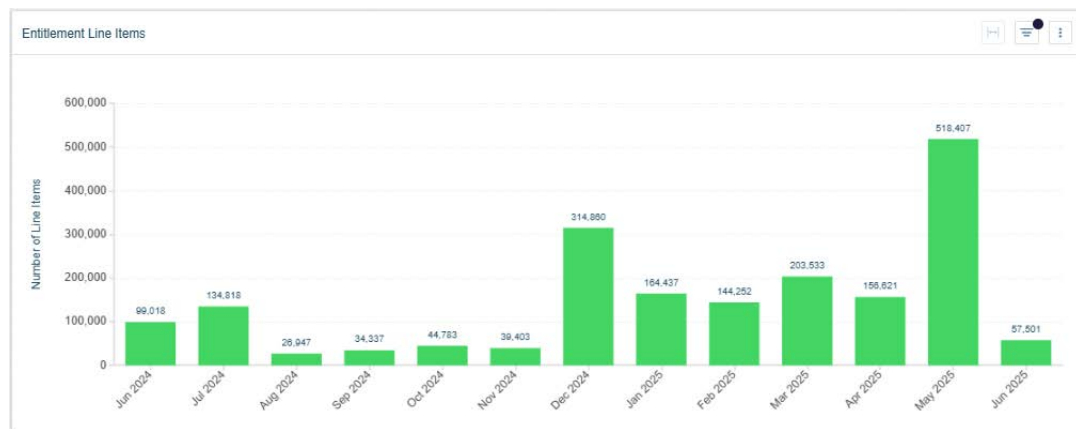
Quick Filters for Entitlements

- Created On (dynamic options available, such as, today, yesterday, last 7 days, last 30 days, current month and previous month)
- End Customer Account ID

Visualizations for Entitlements

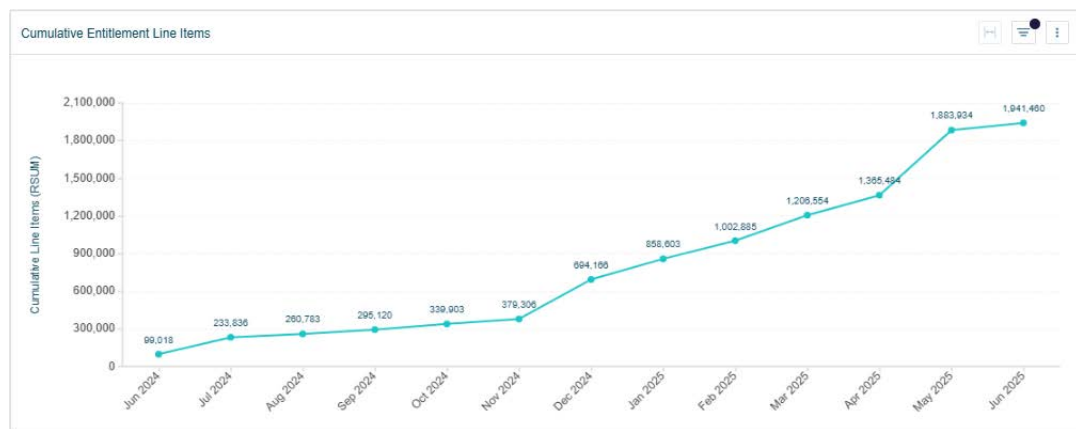
Click the **Entitlements** tile to access the following visualizations:

- **Monthly Trend Bar Chart “Entitlement Line Items”**—Shows the number of new entitlement line items created each month during the last 12 months..



Tip ▪ Click a bar in the bar chart to show the data for a particular month. The cumulative line graph and table will automatically apply the same filter.

- **Cumulative Line Graph “Cumulative Entitlement Line Items”**—This line graph of total entitlements highlights long-term growth patterns or plateaus.



- **Table “Detailed Entitlement Line Items Created”**—Provides raw data for auditing, reporting, and deeper analysis.

Detailed Entitlement Line Items Created								
Order by: Product Name								
Product Name	Product Version	Created On	Start Date	License Model	Entitlement ID	Line Item Activation ID		
testprod_1Id	1.2	2024-11-22 12:43:49	2024-11-22 00:00:00	Embedded Uncounted				
testing_product	v22	2025-02-17 11:47:43	2025-02-17 00:00:00	Default				
testing	1.2	2025-05-08 09:11:40	2025-05-08 00:00:00	Default				
testb	1.0	2024-08-15 01:27:36	2024-08-15 00:00:00	1 Year Subscription				
test_suite01	1.0	2024-09-24 07:38:26	2024-09-24 00:00:00	Floating Counted				
test_suite01	1.0	2024-09-24 07:38:26	2024-09-24 00:00:00	Floating Counted				
test_suite01	1.0	2024-09-24 07:38:26	2024-09-24 00:00:00	Floating Counted				
test_product_counted_01	1.0	2025-03-13 18:18:14	2021-06-24 00:00:00	license_model_counted				
test_product_counted_01	1.0	2025-03-13 18:18:13	2021-06-24 00:00:00	license_model_counted	test_entitlement_01			
test_product_allocatable_01	1.0	2025-03-13 18:18:14	2021-06-24 00:00:00	license_model_allocat...	test_entitlement_02			

Total records: 12,976 / Records per page: 25

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Devices

The **Devices** tile shows the total number of devices recorded over the past 12 months.

How Devices Graphs Benefit You

Monitoring trends in device creation and updates offers valuable insights into customer engagement levels and overall account health.

Analyzing Device Creation Trends

A spike in device creation often signals:

- New customer onboarding.
- Expansion within existing accounts.
- Positive account health check.

A decline or plateau in device creation—especially when correlated with other indicators such as strategic shifts, product roadmap changes, or usage patterns—may indicate:

- Customer disengagement.
- Technical or onboarding issues.
- A need for proactive outreach by Customer Success Managers (CSMs) to re-engage and support the customer.

Analyzing Device Update Trends

Frequent updates suggest:

- Active usage and healthy operational practices.
- Customers are keeping devices current, possibly adopting new features.

Infrequent or declining updates may indicate:

- Reduced engagement or usage.
- Potential technical challenges or lack of awareness.
- An opportunity for CSMs to check in, understand the cause, and offer support.

Quick Filters for Entitlements

- Created Date (dynamic options available, such as, today, yesterday, last 7 days, last 30 days, current month and previous month)
- Account ID

Visualizations for Devices

Click the **Devices** tile to access the following visualizations:

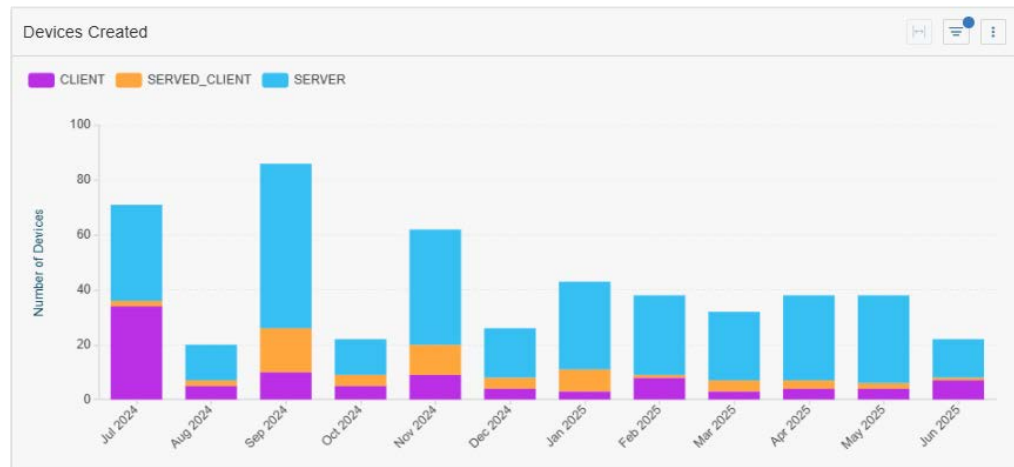
- **Pie Chart “Device Types”**—Shows the relative distribution of device types. Devices are grouped into:
 - Servers

- Served clients
- Standalone devices



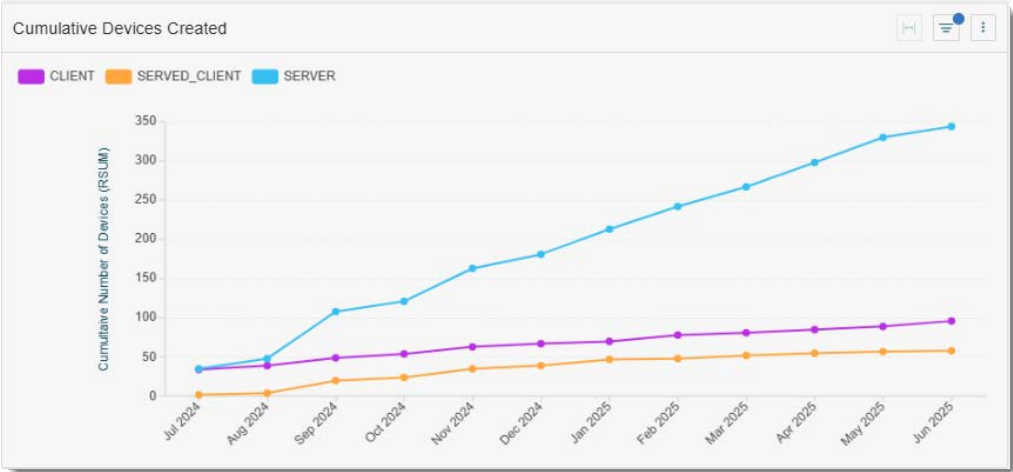
Tip ▪ Click an area in the doughnut chart to focus on a particular device type. The filter you choose will also be applied to all other charts and the table on this page.

- **Monthly Trend Bar Chart “Devices Created”**—Tracks how adoption of devices is growing month over month.

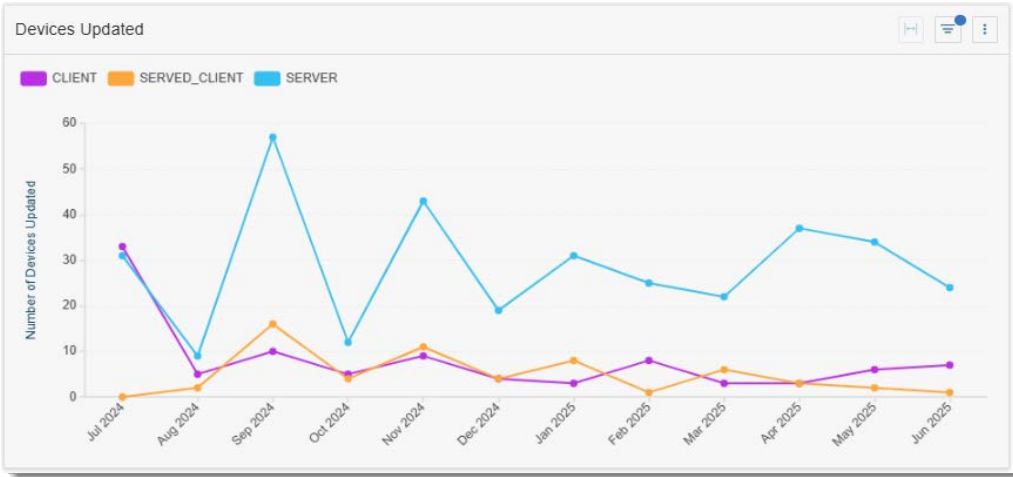


Tip ▪ Click a bar in the bar chart to show the data for a particular month. The other graphs and table on the page will automatically apply the same filter.

- **Cumulative Line Graph “Cumulative Devices Created”**—Showing overall system engagement.



- **Line Chart “Devices Updated”**—Illustrates the number of devices updated each month over the past 12 months, offering insights into how frequently customers maintain or reconfigure their devices.



- **Table “Devices Details”**—Provides visibility into each device and its associated events.

ACCOUNT_NAME	ACCOUNT_ID	ACTIVATION_DELETED	BACKUP_DEVICE_NAME	BASE_PRODUCT	CREATE_DATE	DESCRIPTION	DEVICE_ALIAS	
ACME Software	ACME	N			2024-08-26 02:09:27		000300018	000300018
ACME Software	ACME	N			2024-10-22 18:36:06		300000053	300000053
ACME Software	ACME	N			2024-07-29 08:26:08		Sample Device	43fa5
ACME Software	ACME	N			2024-11-04 19:52:33		1000002295	1000002295
ACME Software	ACME	N			2024-07-29 11:42:08		1c3a4254209669659	1c3a4
ACME Software	ACME	N			2024-11-05 07:06:24		1000002365	1000002365
ACME Software	ACME	N			2024-10-10 11:30:52		2000000511	2000000511
ACME Software	ACME	N			2024-07-29 08:04:09		Sample Device	de7ec
ACME Software	ACME	N			2024-11-04 19:48:28		1000002086	1000002086
ACME Software	ACME	N			2024-10-22 17:03:58		3000000045	3000000045
ACME Software	ACME	N			2024-11-03 16:24:53		1000001518	1000001518

Total records: 26,059 / Records per page: 50

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Accounts

The **Accounts** tile shows the total number of accounts created in the past 12 months.

How Accounts Graphs Benefit You

The graphs provide insights into how accounts are split across the different account types—Customer, Channel Partner, Producer, and Self-Registered.

When correlated with projections, account creation trends offer valuable insights into:

- Market traction, campaign performance, and onboarding effectiveness.
- Identification of high-performing regions or sales representatives.
- Support for pipeline forecasting and revenue planning.

A decline in account creation—particularly when measured against targeted expectations—may indicate market saturation or challenges in the onboarding journey.

This insight enables teams to reassess current strategies and make necessary adjustments to better align with evolving market needs.

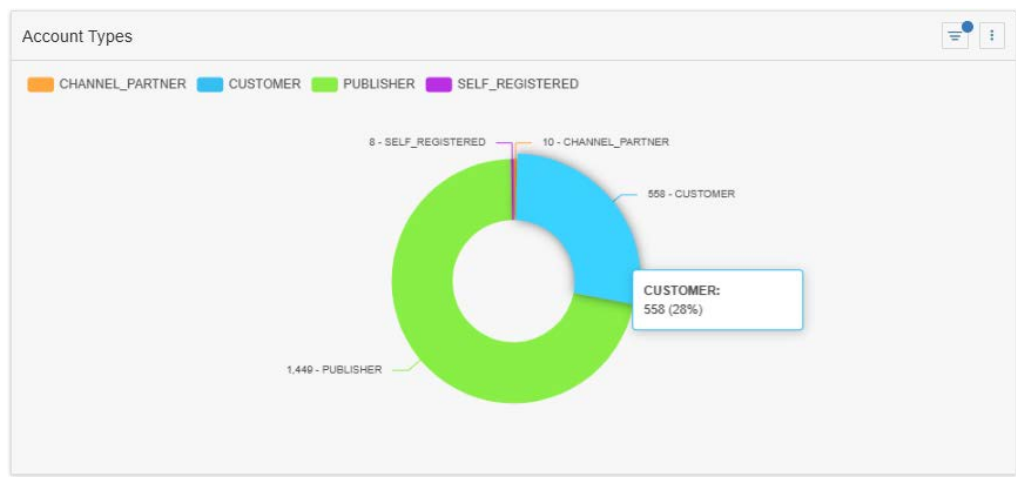
Quick Filters for Accounts

- Created Date (dynamic options available, such as, today, yesterday, last 7 days, last 30 days, current month and previous month)
- Account ID

Visualizations for Accounts

Click the **Accounts** tile to access the following visualizations:

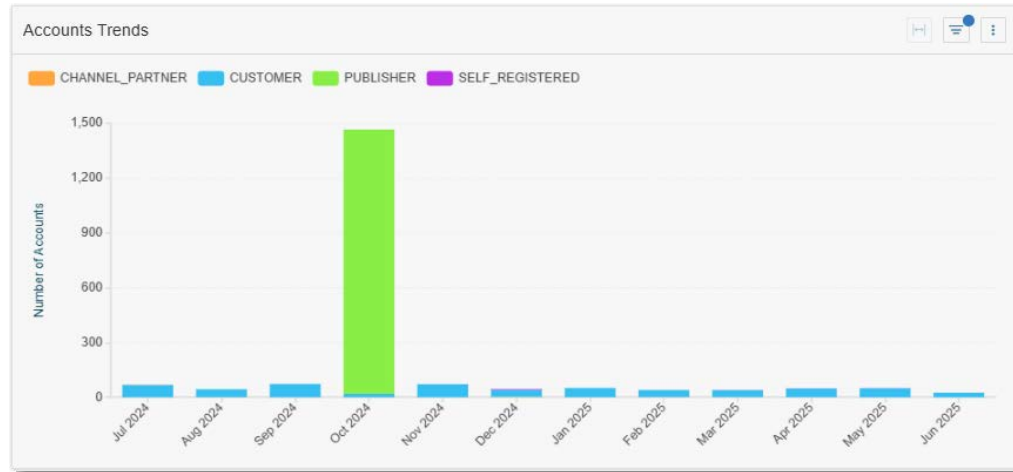
- **Pie Chart “Account Types”**—Shows a breakdown of account types. Accounts are grouped into:
 - Customers
 - Channel Partners
 - Self-registered
 - Publishers





Tip ▪ Click an area in the doughnut chart to focus on a particular account type. The filter you choose will also be applied to all other charts and the table on this page.

- **Monthly Trend Bar Chart “Accounts Trends”**—Shows the number of new accounts created each month during the last 12 months.



Tip ▪ Click a bar in the bar chart to show the data for a particular month. The other graphs and table on the page will automatically apply the same filter.

- **Cumulative Line Graph “Cumulative of Accounts”**—Helps track net growth and retention of active accounts over time.



- **Table “Accounts Created”**—Offers detailed insights for operational and strategic follow-up.

Account ID	Account Name	Account Description	Account Type	Created Date	Account Address 1	Account Address 2
Account_LeamV	Account_LeamV		CUSTOMER	2024-06-24 04:34:01		
Deployment_25june2024	Deployment_25june2024	Deployment	CUSTOMER	2024-06-25 06:38:43		
Account_Source_LeamV	Account_Source_LeamV		CUSTOMER	2024-06-25 10:49:27		
Account_Target_LeamV	Account_Target_LeamV		CUSTOMER	2024-06-25 10:54:08		
Fix_Account-1a8hduqpetfsh	Fix_Account-1a8hduqpetfsh		CUSTOMER	2024-06-26 05:55:51		
Account-1gogqeme9rtli	Account-1gogqeme9rtli		CUSTOMER	2024-06-26 05:59:06		
AccountForAutoProv-1rpkd4hwzy9f	AccountForAutoProv-1rpkd4hwzy9f		CUSTOMER	2024-06-26 06:01:49		
001GC00003KKScYAO	sb_acc-26-07		CUSTOMER	2024-06-26 06:04:23		
Account-107smnz8a6ctu	Account-107smnz8a6ctu		CUSTOMER	2024-06-26 06:05:04		
AccountForAutoProv-1nyqvftz5smq9	AccountForAutoProv-1nyqvftz5smq9		CUSTOMER	2024-06-26 06:08:17		
Fix_Account-18emmcu586j	Fix_Account-18emmcu586j		CUSTOMER	2024-06-26 06:09:27		
Account-107smnz8a6ctu	Account-107smnz8a6ctu		CUSTOMER	2024-06-26 06:15:48		

Total records: 794,292 / Records per page: 25

Users

The **Users** tile shows the total number of users created in the past 12 months.

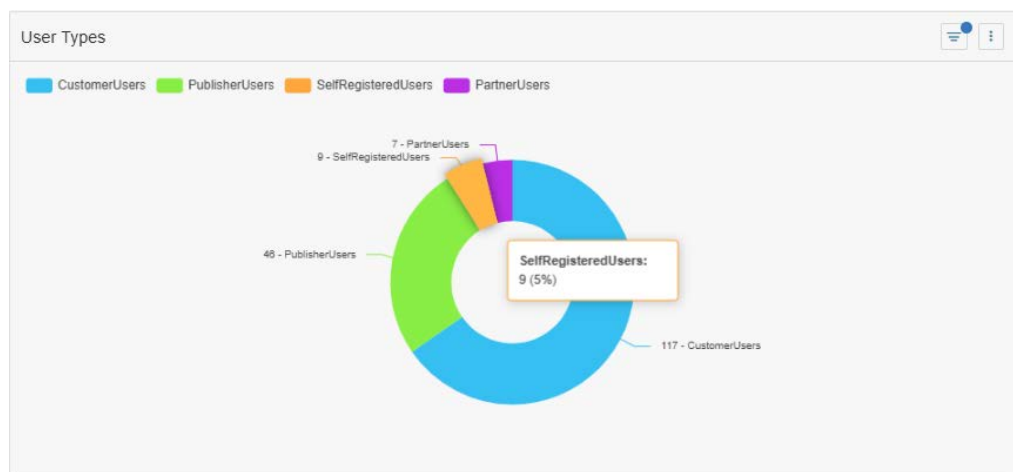
Quick Filters for Users

- Created Date (dynamic options available, such as, today, yesterday, last 7 days, last 30 days, current month and previous month)
- Account ID

Visualizations for Users

Click the **Users** tile to access the following visualizations:

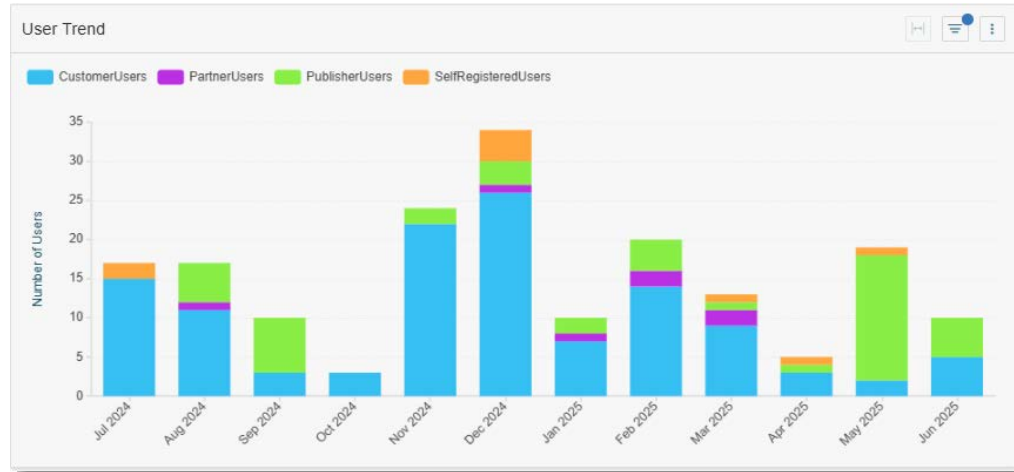
- Pie Chart “User Accounts”**—Shows a breakdown of user types. User types are grouped into:
 - Customer users
 - Self-registered users
 - Partner users
 - Publisher users





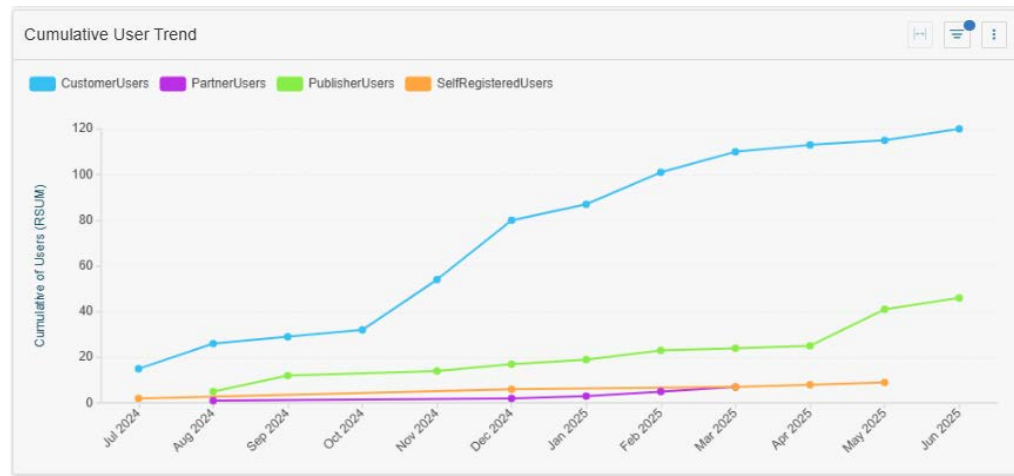
Tip - Click an area in the doughnut chart to focus on a particular user type. The filter you choose will also be applied to all other charts and the table on this page.

- **Monthly Trend Bar Chart “User Trends”**—Shows the number of new users created each month during the last 12 months.



Tip - Click a bar in the bar chart to show the data for a particular month. The other graphs and table on the page will automatically apply the same filter.

- **Cumulative Line Graph “Cumulative User Trend”**—Helps track net growth and retention of active users over time.



- **Table “User Details”**—Offers detailed insights for operational and strategic follow-up.

User Details

Order by: Account ID

Account Name	Account ID	User ID	User Type	Created Date	Email	Country	Expiry Date
Wily Coyote Corporation	WILY		CustomerUsers	2024-06-24 12:58:41		US	
Wily Coyote Corporation	WILY		CustomerUsers	2025-02-10 08:45:06		US	
Wily Coyote Corporation	WILY		CustomerUsers	2025-02-10 08:45:06		US	
Wily Coyote Corporation	WILY		CustomerUsers	2025-06-18 11:07:30		US	
CLSTEST	CLSTEST		CustomerUsers	2025-06-09 21:37:53		US	
Account_TestFNE	Account_TestFNE		CustomerUsers	2024-12-10 12:47:41		US	
ACME	ACME		CustomerUsers	2024-08-15 00:01:34		US	
ACME, Inc. 2	ACME		CustomerUsers	2024-09-12 19:02:54		US	
AM_SFDC_Test1	001a500001wyKDLAA2		CustomerUsers	2025-06-23 07:21:23		IN	
AM_SFDC_Test1	001a500001wyKDLAA2		CustomerUsers	2025-06-23 07:21:23		IN	
Wily Coyote Corporation	001QC00003kufUPVAY	test0325.user0325@flexera.com	CustomerUsers	2025-02-03 11:11:14	test0325.user0325@flexera.com	IN	

Total records: 12 / Records per page: 50

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Downloads

The **Downloads** tile shows the total number of downloads created in the past 12 months.

How Download Graphs Benefit You

The monthly trend in software downloads offers valuable insights into adoption patterns over time:

- A spike in downloads may reflect increased customer interest, measures the impact of product launch for sales and marketing.
- By applying the right filters—such as product line, download package, or geography—Product Management can gain deeper visibility into how specific offerings are performing across different regions.

The file size trend over the past 12 months offers insights into storage utilization. An upward trend may indicate the need for producers to either optimize their storage usage to reduce costs or consider upgrading to accommodate growing storage demands.

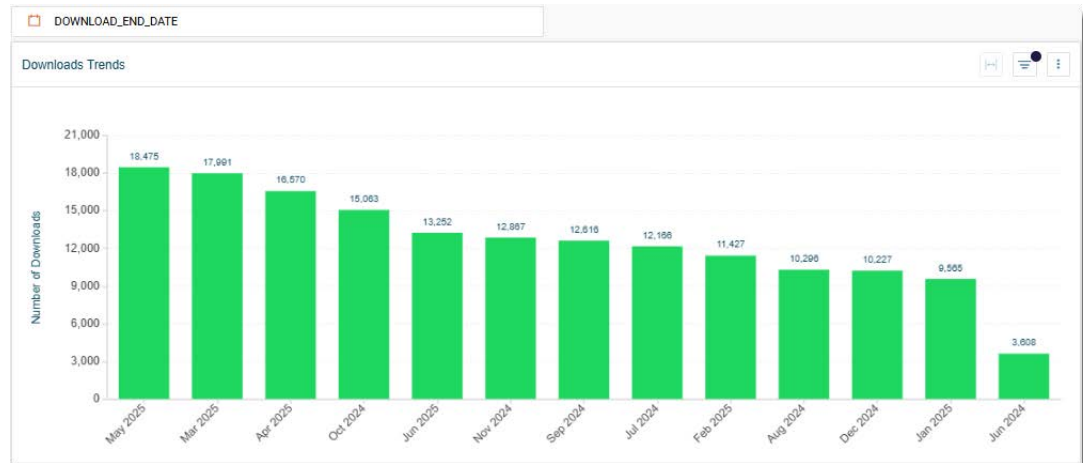
Quick Filters for Users

DOWNLOAD_END_DATE (dynamic options available, such as, today, yesterday, last 7 days, last 30 days, current month and previous month)

Visualizations for Users

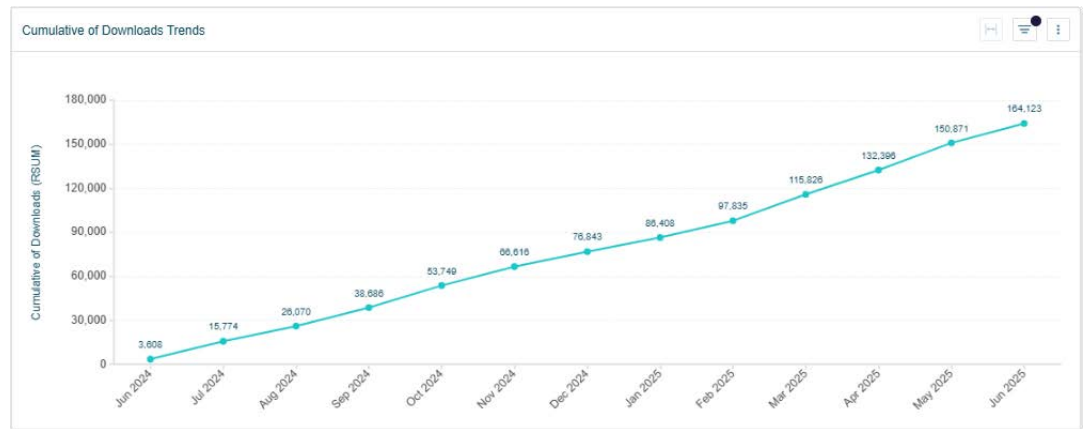
Click the **Downloads** tile to access the following visualizations:

- **Monthly Trend Bar Chart “Downloads Trends”**—Shows the number of completed downloads per month for the last 12 months.

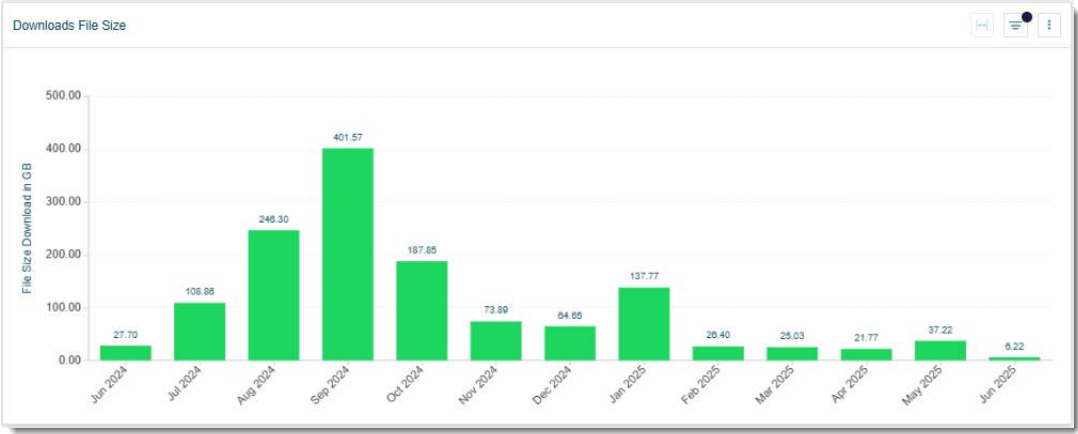


Tip ▪ Click a bar in the bar chart to show the data for a particular month. The other graphs and table on the page will automatically apply the same filter.

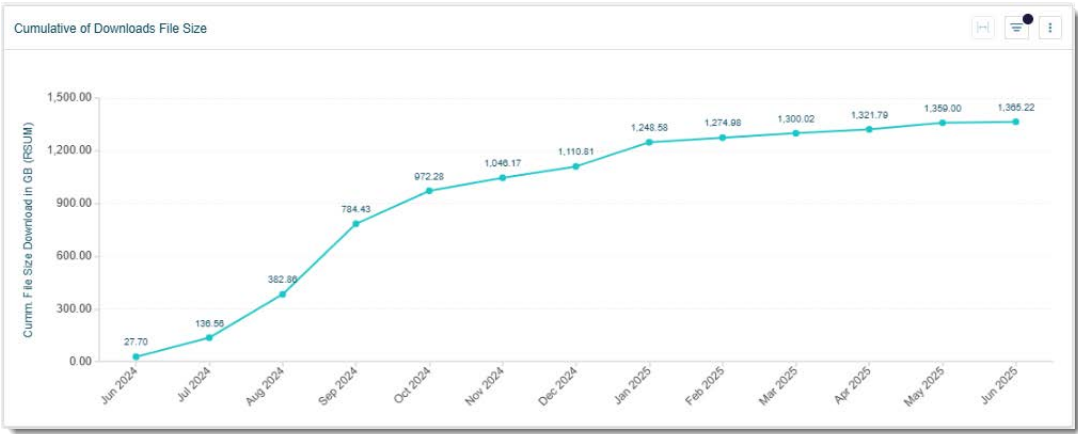
- **Line Chart “Cumulative of Downloads Trends”**—Helps track the number of downloads completed for the last 12 months.



- **Bar Chart “Downloads File Size”**—Represents file size downloaded in GB over the past 12 months.



- **Line Chart “Cumulative of Downloads File Size”**—Visualizes the growth of downloads.



- **Table “Download Details”**—Offers detailed insights for operational and strategic follow-up.

DOWNLOAD_ID	DOWNLOAD_STATUS	DOWNLOAD_TYPE	DOWNLOAD_COUNTRY_CODE	DOWNLOAD_COUNTRY_REGION	DOWNLOAD_IP_AD
	COMPLETE	FDLM	BO	Americas	
	COMPLETE	FDLM	BO	Americas	
	COMPLETE	FDLM	BO	Americas	
	COMPLETE	FDLM	BO	Americas	
	COMPLETE	AKAM	PL	Europe	
	COMPLETE	AKAM	BE	Europe	
	COMPLETE	AKAM	DE	Europe	
	COMPLETE	AKAM	DE	Europe	
	COMPLETE	FDLM	FR	Europe	
	COMPLETE	FDLM	FR	Europe	
	COMPLETE	FDLM	FR	Europe	
	COMPLETE	FDLM	FR	Europe	

Total records: 164,122 / Records per page: 50Page 1 of 3283

Usage Expiry Data Available in Data Access API and Analytics Reports

(SWM-27603)

For all concurrent usage data, the usage expiry information is critical for customers to optimize license pooling and forecast future license availability.

To support this requirement, the Data Share customers can now query the database field **BORROWED_UNTIL**. The field can be queried through the Usage report in the Data Access API (field name: **usageExpiry**) and using the Analytics functionality (field name: **USAGE_EXPIRY**) in the Producer Portal.

For Cloud Licensing Service instances and local license servers, **BORROWED_UNTIL** shows the expiration of the concurrent usage, expressed as milliseconds since 1970-01-0. (No value is returned for metered usages.)

Example of the Usage report

```
{
  "correlationId": "1c63ebee-0965-41a7-9c54-4f5258a3ceeb",
  "usageTime": "1740635429456",
  "writeTime": "1740635470469",
  "accountId": "111444aaabbbc",
  "accountName": "ab_cde-12-34",
  "consumerId": "h1",
  "consumerType": "STRING",
  "meter": "feature",
  "meterType": "concurrent",
  "meterCost": "1",
  "meterCostList": "",
  "meterQuantity": "1",
  "item": "f1-demo",
  "itemVersion": "1.0",
  "itemQuantity": "1",
  "activationId": "[\"9055-abcd-1234-5678-defg-xyzq-ui45-824c\"]",
  "instanceId": "ABCD1234PPPP",
  "mappedEntitledCount": "100000",
  "used": "1",
  "metaData": "{}",
  "sessionId": "",
  "sessionState": "",
  "requestResponse": "",
  "isPartial": "FALSE",
  "isIncremental": "FALSE",
  "overdraftCount": "0",
  "controlsApplied": "{\n  \"partition\": \"default\"\n}",
  "entitledArticles": "[\"p1-demo\"]",
  "entitledArticleVersions": "[\"1.0\"]",
  "UsageExpiry": "1740635459000"
}
```

Logging of Recent Downloads for Updates Downloaded By Devices

(Case 03046832, SWM-27374)



Note • This enhancement is only relevant for producers using the Updates and Insights module.

Device downloads are now recorded as anonymous downloads. While individual devices are not identifiable, each download occurrence is logged.

Software producers can access records of recent device downloads through the **Analytics** feature in FlexNet Operations or by querying the Data Access API using the **AccountID** field.

In the Analytics functionality, the AccountID is returned in the **CONTACT_ACCOUNT_ID** column. The following screenshot shows the **CONTACT_ACCOUNT_ID** column in the **Download Details** table of the Software Delivery Download History report:

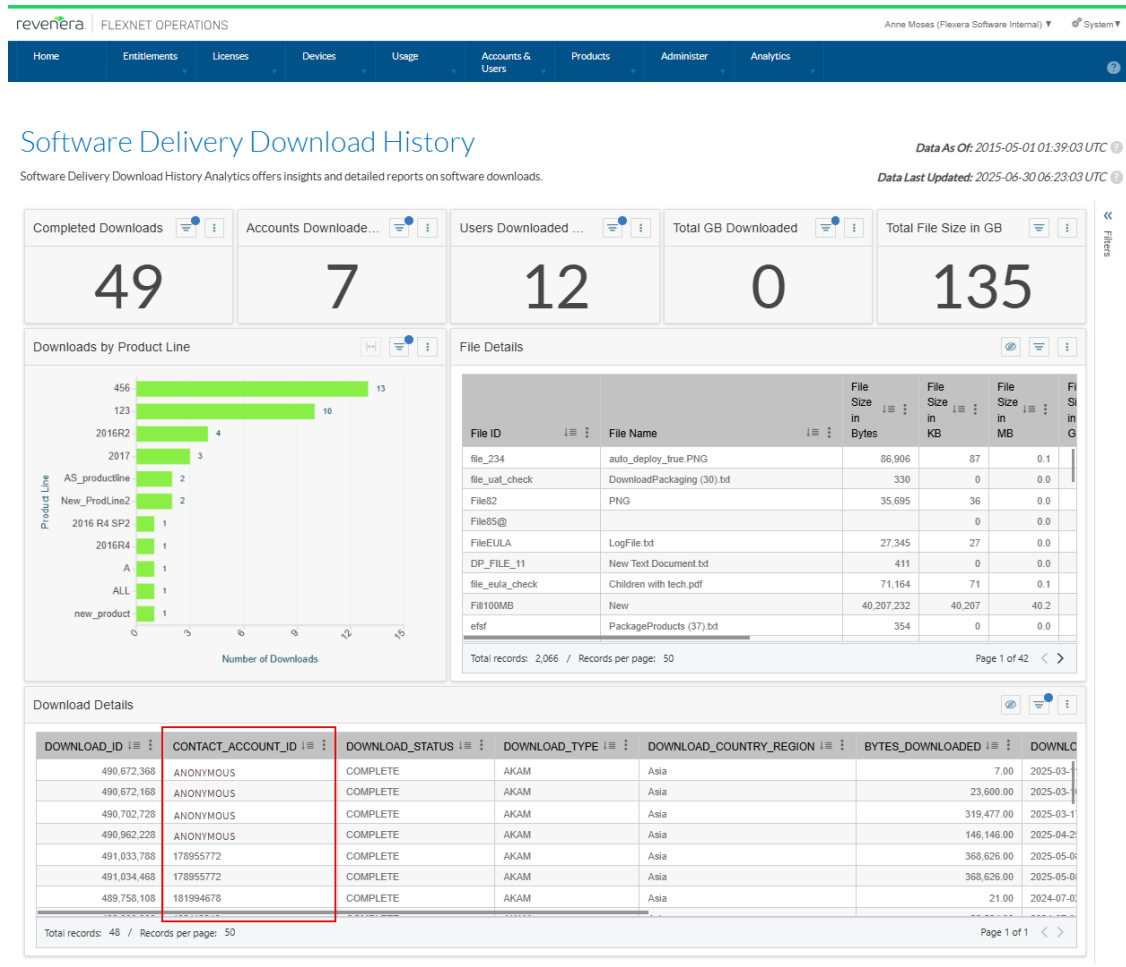


Figure 11: Example of the **CONTACT_ACCOUNT_ID** column in the Software Delivery Download History report.



Tip - If the **CONTACT_ACCOUNT_ID** column is not displayed in a table, click the **Select Columns** button above the table, scroll to the entry (or use the Search field to locate it) and then select the column name to add the column to the table.

SOAP and REST Web Services Enhancements in 2025.07

The following enhancements were added to the SOAP and REST Web Services module in the 2025.07 release.

- Excluding Expired Activation from Search Results in `getEntitlementLineItemPropertiesQuery`
- New APIs Added to Entitlement Management RESTful Services

Excluding Expired Activation from Search Results in `getEntitlementLineItemPropertiesQuery`

(Cases 03002310, 03047299; SWM-27421)

In the `EntitlementOrderService` version 9, a new optional input query parameter named **excludeExpired** has been introduced for the `getEntitlementLineItemPropertiesQuery` to enable you to exclude expired activations from search results.

- **True**—When **excludeExpired** is set to **true**, all expired activations—those with expiration dates earlier than the current local date—will be excluded from the results.
- **False**—If **excludeExpired** is omitted or set to **false**, all activations, including expired ones, will be included.

For detailed information about the changes made to the `EntitlementOrderService.wsdl` and the `.xsd` files that it references, see the [Change Log for 2025.07](#).

The following sections shows sample code for `getEntitlementLineItemPropertiesQuery`.

Sample request for `getEntitlementsAttributeQuery`

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:urn="urn:v9.webservices.operations.flexnet.com">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:searchEntitlementLineItemPropertiesRequest>
      <urn:queryParams>
        <urn:isPermanent>false</urn:isPermanent>
        <!--Optional:-->
        <urn:expirationDate>
          <!--type: date-->
          <urn:value>2025-06-30</urn:value>
          <!--type: datedSearchType - enumeration: [BEFORE,AFTER,ON]-->
          <urn:searchType>BEFORE</urn:searchType>
        </urn:expirationDate>
        <urn:excludeExpired>true</urn:excludeExpired>
      </urn:queryParams>
      <urn:entitlementLineItemResponseConfig>
        <urn:activationId>true</urn:activationId>
        <urn:expirationDate>true</urn:expirationDate>
      </urn:entitlementLineItemResponseConfig>
      <!--type: integer-->
      <urn:batchSize>100</urn:batchSize>
      <!--Optional:-->
      <!--type: integer-->
      <urn:pageNumber>1</urn:pageNumber>
    </urn:searchEntitlementLineItemPropertiesRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Sample response for `getEntitlementsAttributeQuery`

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
  instance">
  soapenv:Body
```

```

<searchEntitlementLineItemPropertiesResponse
xmlns="urn:v9.webservices.operations.flexnet.com">
  <statusInfo>
    <status>SUCCESS</status>
  </statusInfo>
  <entitlementLineItem>
    <activationId>
      <uniqueId>HID-1</uniqueId>
      <primaryKeys>
        <activationId>58b1-6e12-3bfa-4ffd-b1b5-45ed-11d3-019c</activationId>
      </primaryKeys>
    </activationId>
    <expirationDate>2025-06-25</expirationDate>
  </entitlementLineItem>
  <entitlementLineItem>
    <activationId>
      <uniqueId>HID-5</uniqueId>
      <primaryKeys>
        <activationId>f479-77c6-64d5-4ba5-ac68-cdf8-d70f-9010</activationId>
      </primaryKeys>
    </activationId>
    <expirationDate>2025-06-25</expirationDate>
  </entitlementLineItem>
  <entitlementLineItem>
    <activationId>
      <uniqueId>HID-9</uniqueId>
      <primaryKeys>
        <activationId>37e5-f876-1b8b-476f-9ed4-db83-0255-ade<activationId>
      </primaryKeys>
    </activationId>
    <expirationDate>2025-06-26</expirationDate>
  </entitlementLineItem>
</searchEntitlementLineItemPropertiesResponse>
</soapenv:Body>
</soapenv:Envelope>

```

New APIs Added to Entitlement Management RESTful Services

This release expands the set of RESTful Services for Entitlement Management that was introduced in the 2025.04 release.

The new set adds entitlement and line-item management capabilities. It introduces the following endpoints.

Method	Endpoint	Description
Maintenance Line Item		
POST	<code>/entitlement/{entitlementId}/maintenance-line-items</code>	Creates maintenance line items for a given entitlement, allowing producers to manage support and maintenance entitlements separately.
Entitlement		

Method	Endpoint	Description
POST	/entitlement	Creates an entitlement.
Entitlement Line Item		
GET	/entitlement/{entitlementId}/line-items	Retrieves line item details for a specified entitlement, providing visibility into line-item details in FlexNet Operations.
POST	/entitlement/{entitlementId}/line-items	Creates line items for a given entitlement.
PATCH	/entitlement/{entitlementId}/line-items/{activationId}/policies	Updates the policies of a given line item under an entitlement, allowing producers to modify the license model rules and other settings associated with that line item.
PATCH	/entitlement/{entitlementId}/additional-properties	Sets additional entitlement, line item, and license model attributes after an entitlement has been created, to help complete the configuration of entitlement.

Additional Documentation

Detailed information about the Entitlement Management REST APIs is available on Swagger. Use the following URL to access it:

<https://<siteID>.flexnetoperations.com/entitlements-api/swagger-ui/index.html>

where <siteID> is your organization's site ID which is supplied by Reverera.



Important ▪ The Entitlement Management REST API is currently in its beta version and remains under active development. As such, it is not yet fully optimized, and may undergo significant changes or enhancements. Reverera strongly advises against using this API in production environments.

User Experience Enhancements in 2025.07

The following user experience enhancements were added in the 2025.07 release.

- [Cookie Consent Banner in the End-User Portal](#)
- [Selectively Retriggering Failed Bulk Operations](#)
- [New Role-based Permissions for Email and View Certificate Options in End-User Portal](#)
- [Enhanced UI for Import Tab in System Configuration](#)
- [Web Service Transactions “generateCapabilityResponse” and “generatePrebuiltLicense” Visible in Producer Portal](#)

Cookie Consent Banner in the End-User Portal

(Case 02993847, SWM-25549)

The End-User Portal can now display a cookie consent banner to inform users about the use of essential cookies on the website. This feature helps ensure compliance with data privacy regulations such as the General Data Protection Regulation (GDPR), ePrivacy Directive, and the California Consumer Privacy Act (CCPA).

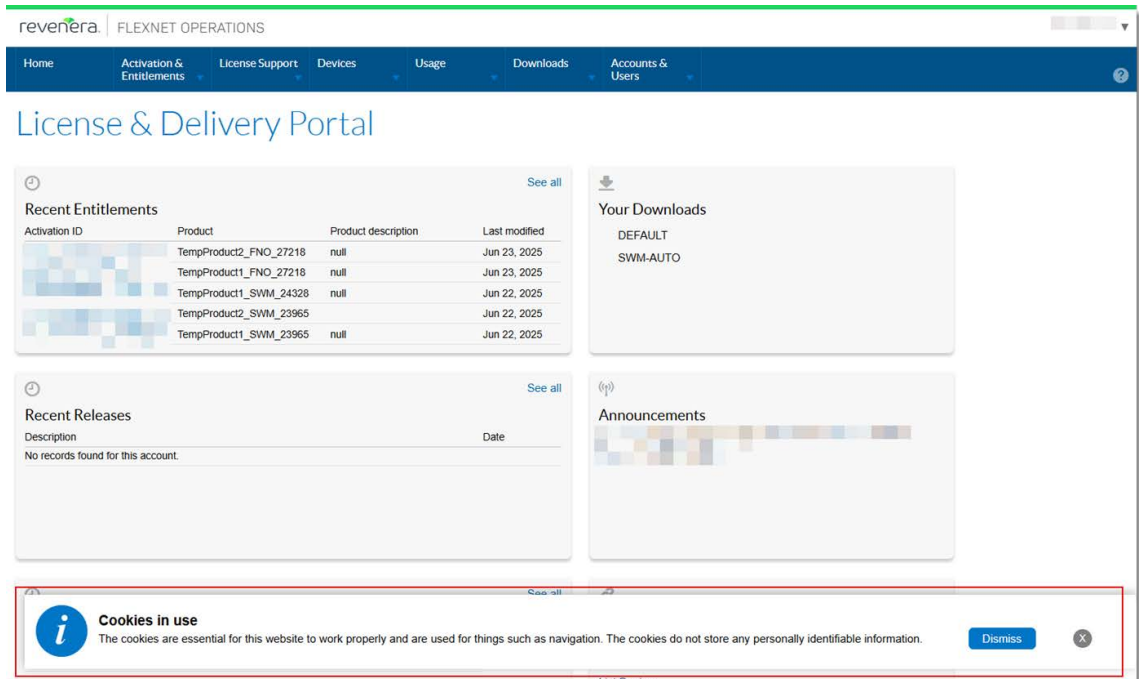


Figure 12: The cookies banner on the Home page of the End-User Portal.

Banner Behavior

The cookie consent banner is shown to users upon accessing the End-User Portal. It remains visible until the user either clicks the **Dismiss** button or the **X** (close) button.

Once dismissed or closed, the banner will not reappear during the current session. The banner will be displayed again if the user logs out and logs back in.

Banner Configuration

Producers can control the display of the cookie consent banner in the End-User Portal using the configuration option **Enable Cookie consent dialog** (under **System > Configuration > End-User Portal Setup > General Options**). By default, this option is enabled (meaning the banner is displayed).

Selectively Retriggering Failed Bulk Operations

(Case 02840512, SWM-25800)

Previously, when a bulk upgrade job completed but failed to upgrade entitlement line items, there was no way to identify which items had failed or succeeded to upgrade. This lack of visibility made it challenging to selectively retrigger only the failed upgrades.

To address this challenge, the **Bulk Operations** page now lists failed upgrade lines along with their failure reasons, which enables administrators to efficiently identify and reprocess only the failed items, improving both reliability and operational efficiency. This enhancement is available for entitlements using FlexNet Embedded.

Administrators can rerun failed upgrade jobs in the following ways:

- Retrigger a single job: Click the new **Retry** icon next to a failed job entry.
- Retrigger multiple jobs: Select the checkboxes for multiple failed jobs and click the new **Retry** button (located above the table).

This screenshot shows the **Bulk Operations** page with the new button and icon:

The screenshot displays the 'Bulk Operations' page in the FlexNet Operations interface. The page title is 'Entitle Customers To Licenses'. Below the title, there is a search bar and a table of operations. The table has columns: Name, Type, Test, Fulfill?, Status, Created by, Last Modified, Entitled, Fulfilled, Email status, and Notes. A 'Retry' button is highlighted above the table. The job BU1066 is highlighted in red, showing a 'Failed' status with a circular arrow icon.

Upgrade	Test upgrade	Upsell	Test upsell	Renew	Test renew	Email	Delete	Retry		
☐	BU1045672	UPGRADE	No	No	Completed	ADMINadmin	Jun 15, 2025	No	No	
☐	BU12	UPGRADE	No	Yes	Completed	ADMINadmin	Jun 15, 2025	No	No	
☐	BU1022	UPGRADE	No	Yes	Draft	ADMINadmin	Jun 15, 2025	No	No	
☐	BU1066	UPGRADE	No	Yes	Failed	ADMINadmin	Jun 12, 2025	No	No	[Incident# 1505-93104] com.flexnet.platform.exceptions.FlexnetTransactionException: Transaction failure. See the FlexNet application log for details. [Incident# 1505-93104]
☐	BU1033	UPGRADE	No	Yes	Completed	ADMINadmin	Jun 12, 2025	No	No	
☐	BU105	UPGRADE	No	Yes	Completed	ADMINadmin	Jun 12, 2025	No	No	

Figure 13: An example of the **Bulk Operations** page with the new **Retry** button.

New Role-based Permissions for Email and View Certificate Options in End-User Portal

(Case 02978952, SWM-25242)

This release introduces two new permissions to allow a more granular, role-based control over the visibility of the **Email** and **View certificate** menu items on the **List Entitlements** page in the End-User Portal.

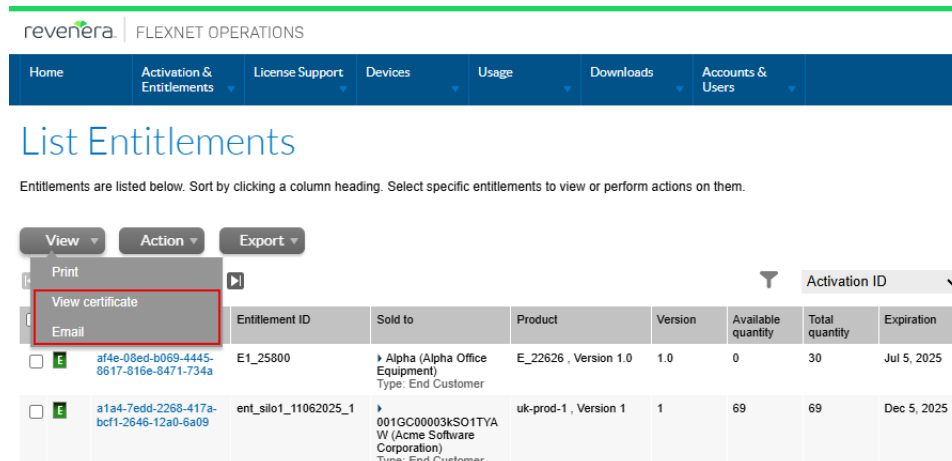


Figure 14: View of the **List Entitlements** page in the End-User Portal (cropped view).

Previously, the visibility of the **Email** and **View certificate** menu items was controlled globally by the configuration settings **Hide View Certificate** and **Hide Email** (under **System > Configure > End-User Portal Setup > Entitlements Page**). These settings applied to all users, limiting flexibility for organizations with diverse user roles and access needs.

To allow a more tailored access control, two new permissions have been introduced under **Account Permissions - End-User Portal**:

- View Certificate
- Email Licenses

These permissions allow administrators to control access to the respective menu items based on user roles.

Behavior Details

- The configuration takes priority. If the global configuration to hide a menu item is enabled, the item will remain hidden for all users, regardless of their permissions.
- If the global configuration is disabled, only users with the corresponding permission will see the **Email** or **View Certificate** menu items.
- By default, all existing roles that have the permission Email Licenses (listed under **Operations License Management - Producer Portal**) are granted these new permissions to maintain current behavior and avoid disruption.

Enhanced UI for Import Tab in System Configuration

(SWM-26018)

The UI for **Import** settings (under **System > Configure > Import**) has been redesigned to improve usability and clarity.

The two sections for importing a configuration .JAR file and a digital certificate .DER file have been clearly separated and renamed for better understanding. The following screenshot shows the improved UI (for comparison, a screenshot of the previous UI can be found in [Auto-Upload of Default Public Key for CLS](#)).

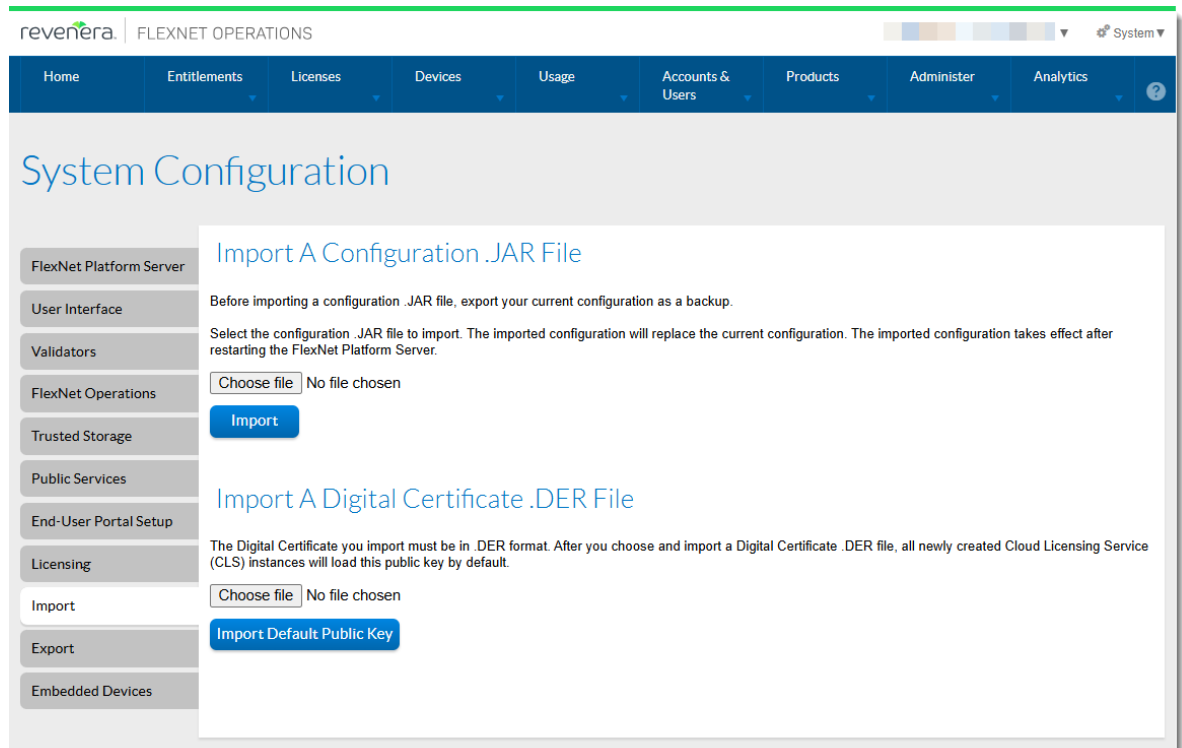


Figure 15: Redesigned UI of the **Import** section in the system configuration.

Web Service Transactions “generateCapabilityResponse” and “generatePrebuiltLicense” Visible in Producer Portal

(SWM-24814, SWM-27695)

The list of transactions displayed on the **Search Transactions** page in the Producer Portal (under **System > Transaction History**) now also includes the following transactions:

- A response was generated for a device using web services.
- A pre-installed license is generated for a device using web services.

These enhancements are a continuation of the transparency improvements made in the previous releases (2025.04 through 2025.06).

Tracked Operations In 2025.07

Transactions are tracked for standalone devices, Cloud Licensing Service instances and local license servers. The following table lists the operations of the ManageDeviceService web service that are now tracked:

Transaction	Web Service Operation	Event Type	Description
Transactions tracked from release 2025.07 onwards			

Transaction	Web Service Operation	Event Type	Description
Generating a capability response	generateCapabilityResponse	UPDATE	Tracks transactions where a capability response was generated for a device.
Generating a pre-installed license	generatePrebuiltLicense	UPDATE	Tracks transactions where a pre-installed license was generated for a device.
Transactions tracked from release 2025.06 onwards			
Returning a host	returnHost	UPDATE	Tracks transactions where the status of a host is set to "RETURNED".
Transactions tracked from release 2025.05 onwards			
Deleting a line item from a device	deleteAddOnLineItemsRequest	UPDATE	Tracks transactions where an entitlement line item was deleted on a device.
Obsoleting the host for a device	obsoleteHostRequest	DELETE	Tracks transactions where a host for a device was deleted.
Removing add-on line items	decrementAddonLineItemsRequest	UPDATE	Tracks transactions where an add-on line item was removed from a device.
Moving a device to a different account	moveDeviceRequest	UPDATE	Tracks transactions where a device is moved to a different account.
Deleting a device	deleteDeviceRequest	DELETE	Tracks transactions where a device is deleted.
Transactions tracked from release 2025.04 onwards			
Creating a device	createDeviceRequest	CREATE	Tracks all successful and failed attempts to create a device.
Linking entitlement line items to a device	linkAddonLineItems	UPDATE	Tracks transactions where an entitlement line item was linked to a device, or where a metered license was removed from a device.
Incrementing entitlement line items to devices	IncrementAddonLineItems	UPDATE	Tracks transactions where an entitlement line item was incremented on a device.

Transaction	Web Service Operation	Event Type	Description
Updating a device	updateDevice	UPDATE	Tracks transactions where a device was updated.

Features and Enhancements in 2025.06

Features and enhancements were added to the following areas of FlexNet Operations in the 2025.06 release:

- [Data Analytics Enhancements in 2025.06](#)
- [Device Management Enhancements in 2025.06](#)
- [SOAP and REST Web Services Enhancements in 2025.06](#)
- [User Experience Enhancements in 2025.06](#)
- [User Management Enhancements in 2025.06](#)

Data Analytics Enhancements in 2025.06

The following enhancement was made to the Analytics functionality in 2025.06.

New Analytics Bar Chart “Downloads by Product Line”

(SWM-26396)

As part of ongoing efforts to improve visibility and usability within the Software Delivery Download History dashboard (available from the **Analytics** menu), Revenera introduces a new interactive bar chart, **Downloads by Product Line**.

This new chart draws data from the **Downloads** dataset that are used by the FlexNet Operations Data Access API (for more information, see [Data Access API and Data Share Entity Relationship Details](#)). It visualizes the number of downloads categorized by product line.

Key Functionality

- Each bar represents the total downloads for a specific product line.
- Clicking on a bar dynamically filters the dashboard to display all downloads corresponding to the selected product line.

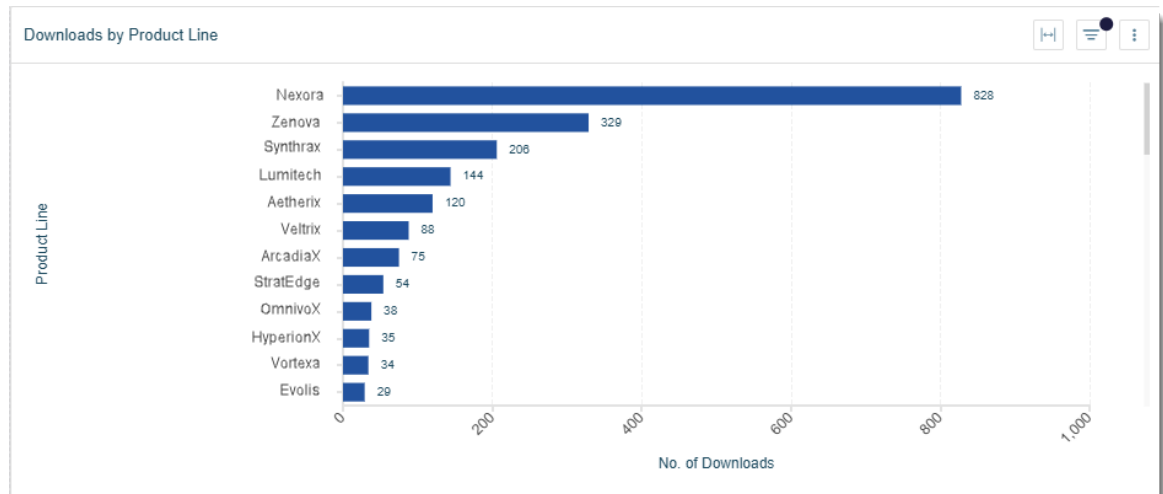


Figure 16: An example of the new **Downloads by Product Line** bar chart.

This enhancement provides users with a clearer overview of download trends by product line and enabling quick drill-down into detailed records.

Key Benefits

- Quickly identify which product lines have the highest or lowest download activity.
- Seamlessly drill down into download details with one click.
- Enhanced user experience for tracking and analysing download trends.

Device Management Enhancements in 2025.06

The following enhancements to device management were added in the 2025.06 release.

- [Bulk Updating Device Attributes](#)
- [Optional Site Name Information in AssignAccountToHost Sheet of Devices Template](#)

Bulk Updating Device Attributes

(SWM-26157)

The Devices Template, first introduced in the 2025.05 release, has undergone further enhancements to provide producers with greater flexibility in managing device attributes at scale. As part of this update, a new sheet called **UpdateHost** has been added to the template, enabling bulk updates to the following device attributes: site name, notes, user ID, backup server ID, and device display name.

In the template, the following properties must be provided to update device attributes: host ID, host alias, publisher name, host class, and host ID type.

This screenshot shows an example of a populated template:

	A	B	C	D	E	F	G	H	I	J
1	TransactionType	HostID	HostAlias	PublisherName	HostClass	HostIDType	SiteName	Notes	UserID	BackupServerID
2	UpdateHost	AB12CD34EF5	Device_01	fnedemo	CLIENT	ETHERNET	EMEA_01		DemoUser@mycompany.com	
3	UpdateHost	CD12EF34HI5	Device_02	fnedemo	CLIENT	ETHERNET	EMEA_02		DemoUser@mycompany.com	
4	UpdateHost	EF12GH34IJ5	Device_03	fnedemo	CLIENT	ETHERNET	EMEA_03		DemoUser@mycompany.com	
5	UpdateHost	GH12IJ34LM5	Device_04	fnedemo	SERVER	VM_UUID	APAC_08		DemoUser@mycompany.com	
6										
7										

Figure 17: Example of a populated **UpdateHost** sheet.

To download the Devices Template (XLSX format), click **Administer** > **Import Data Objects** and select the **Data Import Templates** tab.

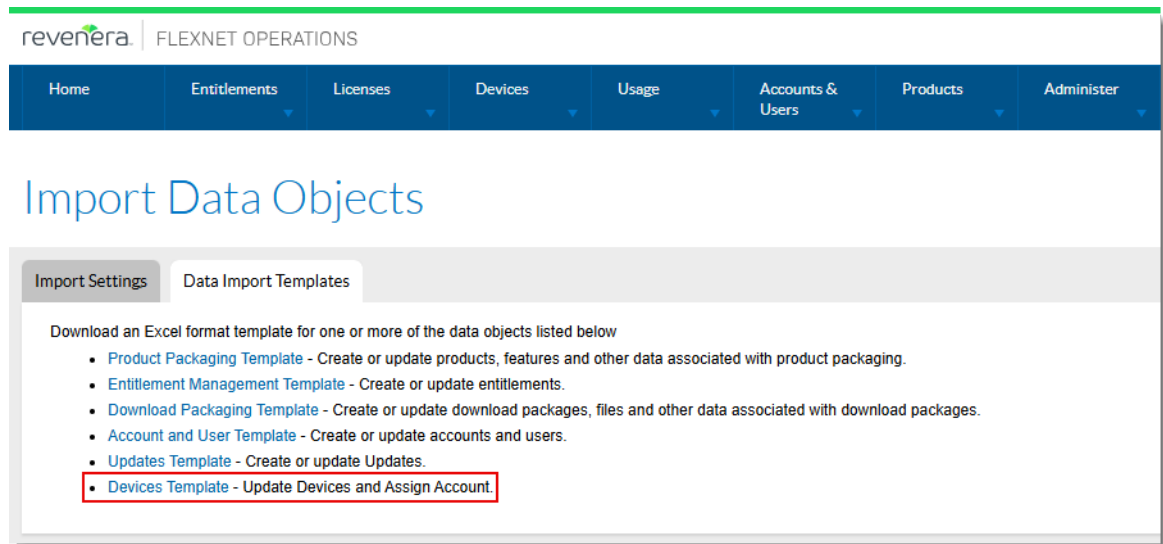


Figure 18: The Devices Template can be downloaded from the **Import Data Objects** page.

Once the Devices Template has been populated, it must be saved as a Unicode .txt file before it can be imported into FlexNet Operations, using the **Import Settings** tab on the **Import Data Objects** page.

Optional Site Name Information in AssignAccountToHost Sheet of Devices Template

(SWM-27230)

A new optional column, **SiteName**, has been added to the **AssignAccountToHost** sheet of the Devices Template. While this column cannot be used as input for this operation, it helps producers more effectively differentiate between devices and servers based on their site name.

	A	B	C	D	E	F	G
1	TransactionType	HostID	PublisherName	HostClass	HostIDType	AccountID	SiteName
2	AssignAccountToHost	AB12CD34EF5	fnedemo	CLIENT	ETHERNET	ACMESoftware	EMEA_01
3		CD12EF34HI5	fnedemo	CLIENT	ETHERNET	ACMESoftware	EMEA_02
4		EF12GH34IJ5	fnedemo	CLIENT	ETHERNET	ACMESoftware	EMEA_03
5		GH12IJ34LM5	fnedemo	SERVER	VM_UUID	ACMESoftware	APAC_08
6							
7							

Figure 19: Example of a populated **SiteName** column on the **AssignAccountToHost** sheet of the Devices Template.

SOAP and REST Web Services Enhancements in 2025.06

The following enhancements were added to the SOAP and REST Web Services module in the 2025.06 release.

- [New API Commands to Report Custom Attributes for Entitlements and Line Items](#)
- [Entitlement Order Service Now Returning Activatable Item Owner Details](#)
- [Optional vendorAuthString parameter in getFeaturesQueryRequest API in ProductPackagingService v3](#)

New API Commands to Report Custom Attributes for Entitlements and Line Items

(Case 02852081, SWM-19774)

This release introduces version 9 of the EntitlementOrderService web service. Version 9 enables users to retrieve details of all custom attributes—including Entitlement, Line Item, and Maintenance attributes—using the operations **getEntitlementsAttributeQuery** and **getEntitlementAttributeCount** with the query parameters **searchEntitlementAttributeRequest** and **getEntitlementAttributeCountRequest**.

The response contains an optional element **activationId** for **searchEntitlementAttributeRequest** and **getEntitlementAttributeCountRequest**.

The new API command returns all entitlements, line items and maintenance line items with their custom attributes.

Key changes:

- New version 9 of EntitlementOrderService.wsdl
- New Operations: **getEntitlementsAttributeQuery**, **getEntitlementAttributeCount**
- New Parameters: **searchEntitlementAttributeRequest**, **getEntitlementAttributeCountRequest**

For detailed information about the changes made to the EntitlementOrderService.wsdl and the .xsd files that it references, see the [Change Log for 2025.06](#).

Sample Request and Response for getEntitlementsAttributeQuery

The following sections show sample code for **getEntitlementsAttributeQuery**.

Sample Request for getEntitlementsAttributeQuery

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:v9.webservices.operations.flexnet.com">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:searchEntitlementAttributeRequest>
      <urn:entitlementAttributeSearchCriteria>
        <!--Optional:-->
        <urn:entitlementId>
          <urn:value>ENT_Test_AutoRenew9</urn:value>
          <urn:searchType>EQUALS</urn:searchType>
        </urn:entitlementId>
      </urn:entitlementAttributeSearchCriteria>
      <urn:batchSize>10</urn:batchSize>
    </urn:searchEntitlementAttributeRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Sample Response for getEntitlementsAttributeQuery

This sample has been condensed to fit within space constraints.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Body>
    <searchEntitlementAttributeResponse xmlns="urn:v9.webservices.operations.flexnet.com">
      <statusInfo>
        <status>SUCCESS</status>
      </statusInfo>
      <entitlement>
        <simpleEntitlement>
          <entitlementId>
            <id>ENT_Test_AutoRenew9</id>
          </entitlementId>
          ...
          <maintenanceLineItems>
            <maintenanceProduct>
              <uniqueId>HID-2000000001928</uniqueId>
              <primaryKeys>
                <name>Main_Test3</name>
                <version>1.0</version>
              </primaryKeys>
            </maintenanceProduct>
            <orderId>2001</orderId>
            <orderLineNumber>201</orderLineNumber>
            <startDate>2024-03-01</startDate>
            <expirationDate>2026-02-26</expirationDate>
            <isPermanent>false</isPermanent>
            <parentLineItem>
              <uniqueId>HID-20000000142914</uniqueId>
              <primaryKeys>
```

```

        <activationId>TestAct_AutoRenew</activationId>
    </primaryKeys>
</parentLineItem>
<associatedLineItems>
    <uniqueId>HID-2000000142914</uniqueId>
    <primaryKeys>
        <activationId>TestAct_AutoRenew</activationId>
    </primaryKeys>
</associatedLineItems>
<maintenanceLineItemAttributes>
    <attribute>
        <attributeName>MLIA_ET_Boolean</attributeName>
        <booleanValue>true</booleanValue>
    </attribute>
    <attribute>
        <attributeName>TempCA1_Boolean_FNO_54060</attributeName>
        <booleanValue>false</booleanValue>
    </attribute>
    <attribute>
        <attributeName>TempCA_Boolean_FNO_54060</attributeName>
        <booleanValue>false</booleanValue>
    </attribute>
</maintenanceLineItemAttributes>
    <state>DEPLOYED</state>
</maintenanceLineItems>
    ...
</entitlementAttributes>
</simpleEntitlement>
</entitlement>
</searchEntitlementAttributeResponse>
</soapenv:Body>
</soapenv:Envelope>

```

Sample Request and Response for getEntitlementAttributeCount

The following sections show sample code for **getEntitlementAttributeCount**.

Sample Request for getEntitlementAttributeCount

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:urn="urn:v9.webservices.operations.flexnet.com">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:getEntitlementAttributeCountRequest>
      <urn:queryParams>
        <!--Optional:-->
        <urn:entitlementId>
          <urn:value>ENT_Test_AutoRenew9</urn:value>
          <urn:searchType>EQUALS</urn:searchType>
        </urn:entitlementId>
      </urn:queryParams>
    </urn:getEntitlementAttributeCountRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

Sample Response for getEntitlementAttributeCount

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
  instance">
  <soapenv:Body>
    <getEntitlementAttributeCountResponse
      xmlns="urn:v9.webservices.operations.flexnet.com">
      <statusInfo>
        <status>SUCCESS</status>
      </statusInfo>
      <count>1</count>
    </getEntitlementAttributeCountResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

Entitlement Order Service Now Returning Activatable Item Owner Details

(Cases 02847862, 03002310, 03004150, 03033984, 03034028; SWM-20135)

Producers can now extract information about self-registered end-users using the new version 9 of the EntitlementOrderService web service. This enhancement is especially useful for renewals, because it enables producers to tie self-registered end-users to the details in their ERP system.

Most importantly, producers can extract the end-users's email address that is displayed in the **Activatable Item Owner** field for a line item, as seen in this sample screenshot:

Line Item Details

Entitlement ID	AM_Ent_3				
Entitlement State	Deployed				
Account	001GC00003kxUPYAY (Wily Coyote Corporation)				
Description					
Activation ID	ACT-8306-2a56-F2f9-f81				
Product Information	<table> <tr> <th>Product</th><th>Description</th></tr> <tr> <td>Prod2</td><td>Version 2.0, Qty/Copy 100</td></tr> </table>	Product	Description	Prod2	Version 2.0, Qty/Copy 100
Product	Description				
Prod2	Version 2.0, Qty/Copy 100				
Line Item Description					
Part Number					
Part Number Description					
Qty	100				
Qty Remaining	100				
Start Date Option	Specify Value Now				
Start Date	Dec 17, 2024				
Permanent:	true				
Number of Extra Activations	0				
Remaining Extra Activations	0				
Maximum Overdraft					
Overdraft Remaining					
Overdraft Floor					
Overdraft Ceiling					
Number of Rehosts	Ignore Policy				
Number of Returns	Ignore Policy				
Number of Repairs	Ignore Policy				
Allowed Server Host ID Types	Ignore Policy				
Allowed Nodelocked Host ID Types	Ignore Policy				
Hosts					
Credit count back to entitlement on a return?	Yes				
Allow activation on Virtual Machines?	Yes				
Deny repair if ACPI generation ID is changed?					
Activatable Item Owners	User@MyCompany.com				
Parent Entitlement Owners					
License Model	Floating Counted				
Notice					
Region Code					

Details of Changes to EntitlementOrderService.wsdl

The following new filters were added to **getEntitlementLineItemPropertiesQuery**:

- **productLine**: For searching a line item based on the entitled product's product line.
- **expiresIn**: For searching a line item based on the expiration period. Available search units: DAYS, WEEKS, MONTHS, YEARS. This enables producers to filter for entitlements expiring within, for example, 30 days or 3 months.
- **activatableItemOwnersSearch**: Can have multiple **activatableItemOwner** child nodes. Retrieves all line items that belong to either of the emails provided as child elements.
- **soldToDisplayName**: For searching based on the display name of the assigned account.

The following optional response field was added to **getEntitlementLineItemPropertiesQuery**:

- **activatableItemOwners**: Can have multiple **activatableItemOwner** child nodes. Lists all the owners of a given line item.

For detailed information about the changes made to the **EntitlementOrderService.wsdl** and the **.xsd** files that it references, see the [Change Log for 2025.06](#).

Optional vendorAuthString parameter in getFeaturesQueryRequest API in ProductPackagingService v3

(SWM-27118)

The **getFeaturesQueryRequest** API in the ProductPackagingService web service (version 3) now supports a new optional parameter: **vendorAuthString**.

The vendor auth string is used to sign license files for FlexNet Publisher licenses.

When a non-null, non-empty value is provided for **vendorAuthString**, it will be included in the API response. This enhancement allows producers to:

- Retrieve the vendor auth string alongside other feature properties.
- Query feature information using the vendor auth string as a filter.

For detailed information about the changes, see the [Change Log for 2025.06](#).

Sample Request and Response for getFeaturesQuery

The following sections show sample code for **getFeaturesQuery**.

Sample Request for getFeaturesQuery

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:urn="urn:v3.webservices.operations.flexnet.com">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:getFeaturesQueryRequest>
      <!--Optional:-->
      <urn:queryParams>
        <!--Optional:-->
        <urn:featureName>
          <!--type: string-->
          <urn:value>zstart</urn:value>
          <!--type: simpleSearchType - enumeration:
[STARTS_WITH,CONTAINS,ENDS_WITH,EQUALS]-->
          </urn:searchType>EQUALS</urn:searchType>
        </urn:featureName>
      </urn:queryParams>
      <!--type: integer-->
      <urn:pageNumber>1</urn:pageNumber>
      <!--type: integer-->
      <urn:batchSize>100</urn:batchSize>
    </urn:getFeaturesQueryRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Sample Response for getFeaturesQuery

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Body>
    <getFeaturesQueryResponse xmlns="urn:v3.webservices.operations.flexnet.com">
      <statusInfo>
        <status>SUCCESS</status>
      </statusInfo>
    </getFeaturesQueryResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```

</statusInfo>
<responseData>
  <feature>
    <uniqueId>HID-8</uniqueId>
    <featureName>Zstart</featureName>
    <versionFormat>DATE_BASED</versionFormat>
    <version/>
    <description/>
    <state>DEPLOYED</state>
    <vendorAuthString>AUTH={ demo=( LK=0 SIGN=0 SIGN2=0) demo2=( SIGN=0 SIGN2=0)
  }</vendorAuthString>
  <featureOverrideParams>
    <dupGroup>
      <dupGroupOption>NO_OVERRIDE</dupGroupOption>
    </dupGroup>
  </featureOverrideParams>
</feature>
</responseData>
</getFeaturesQueryResponse>
</soapenv:Body>
</soapenv:Envelope>

```

Vendor Auth String in Producer Portal

The vendor auth string can also be displayed in the Producer Portal on the **Create A Feature** page (under **Products > Features > Add new Feature**):

The screenshot displays the 'Create A Feature' page in the FlexNet Operations Producer Portal. The page has a navigation bar with links like Home, Entitlements, Licenses, Devices, Usage, Accounts & Users, Products, Administer, and Analytics. The main content area is titled 'Package Products' and 'Create A Feature'. The form includes fields for Feature Name (DemoFeature), Version Format Type (Fixed), Version (1.0), Description, Units, Scale, and State (Draft). The 'Vendor Auth String' field is highlighted with a red box and contains the text 'AUTH={ demo=(LK=0 SIGN=0 SIGN2=0) }'. A table on the right shows 'No saved Features.'

By default, the **Vendor Auth String** field is hidden. Producers who wish to have it displayed should contact Revenera support.

User Experience Enhancements in 2025.06

The following user experience enhancement was added in the 2025.06 release.

- Auto-Upload of Default Public Key for CLS

- Shortened Configuration Option Name
- Web Service Transaction “returnHost” Visible in Producer Portal
- Extended File Download Period on “Recent Files Added” Page in End-User Portal
- Enhanced Performance for Cloud Licensing Service

Auto-Upload of Default Public Key for CLS

(SWM-26018, SWM-26942)

Producers can now configure a default .DER public key in the Producer Portal. This key will be automatically applied to all newly created Cloud License Server (CLS) instances. It means that producers no longer need to manually upload the public key (.DER) file to each of their CLS instances, saving time and effort.

Once a .DER file has been uploaded via the **Import** tab, it cannot be overwritten using the existing **import_access_key** REST API endpoint of the Cloud Licensing Service Module. Also, there is currently no option to view or delete an uploaded .DER file. However, you can upload a new .DER file, which will replace the existing one.

Producers upload the .DER file on the **Import** tab of the **System Configuration** page (under **System > Configure**). Uploaded .DER files are validated to confirm they are in the correct format. The following screenshot shows the new interface for the upload:

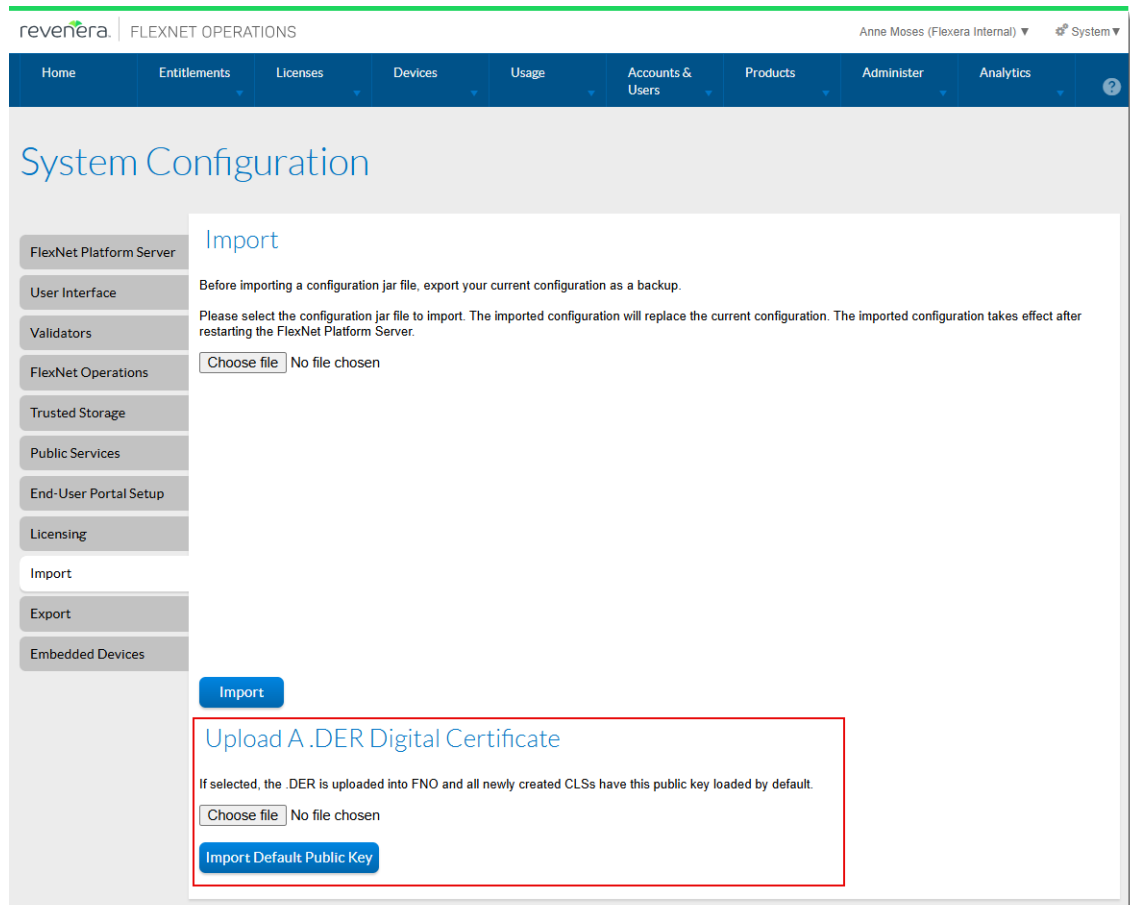


Figure 20: The **Import** tab on the **System Configuration** page now includes the **Import Default Public Key** button for uploading a .DER file that will be automatically applied to all newly created Cloud Licensing Service (CLS) instances.

Shortened Configuration Option Name

(SWM-26378)

The 2025.04 release introduced a configuration which allows producers to change the behavior when mapping renewal licenses to devices. This configuration was called **Retain mapping of the parent activation to the devices when mapping a child activation** (available under **System > Configure > Embedded Devices > Host Options**; see also [Allow Renewal License to Start Upon Expiry of Parent License](#)).

In the 2025.06 release, the configuration name was shortened to **Retain parent activation ID on devices/servers**, to provide a better user experience.

Web Service Transaction “returnHost” Visible in Producer Portal

(SWM-24819)

The list of transactions displayed on the **Search Transactions** page in the Producer Portal (under **System > Transaction History**) will now also include host returns performed using web services. This enhancement is a continuation of the transparency improvements made in the 2025.04 and 2025.05 releases.

Tracked Operations In 2025.06

Transactions are tracked for standalone devices, Cloud Licensing Service instances and local license servers. The following table lists the operations of the ManageDeviceService web service that are now tracked:

Transaction	Web Service Operation	Event Type	Description
Transactions tracked from release 2025.06 onwards			
Returning a host	returnHost	UPDATE	Tracks transactions where the status of a host is set to "RETURNED".
Transactions tracked from release 2025.05 onwards			
Deleting a line item from a device	deleteAddOnLineItemsRequest	UPDATE	Tracks transactions where an entitlement line item was deleted on a device.
Obsoleting the host for a device	obsoleteHostRequest	DELETE	Tracks transactions where a host for a device was deleted.
Removing add-on line items	decrementAddonLineItemsRequest	UPDATE	Tracks transactions where an add-on line item was removed from a device.
Moving a device to a different account	moveDeviceRequest	UPDATE	Tracks transactions where a device is moved to a different account.
Deleting a device	deleteDeviceRequest	DELETE	Tracks transactions where a device is deleted.
Transactions tracked from release 2025.04 onwards			
Creating a device	createDeviceRequest	CREATE	Tracks all successful and failed attempts to create a device.
Linking entitlement line items to a device	linkAddonLineItems	UPDATE	Tracks transactions where an entitlement line item was linked to a device, or where a metered license was removed from a device.
Incrementing entitlement line items to devices	IncrementAddonLineItems	UPDATE	Tracks transactions where an entitlement line item was incremented on a device.
Updating a device	updateDevice	UPDATE	Tracks transactions where a device was updated.

For a use case example or information about how to view transaction details, see [Improved Transaction Visibility in Producer Portal](#).

Extended File Download Period on “Recent Files Added” Page in End-User Portal

(Case 02844268, SWM-19857)

Previously, the End-User Portal allowed quick access to file downloads on the **Recent Files Added** page for recent periods of 30, 60, 90, and 120 days. To meet customer requirements, the available selection on the **Recent Files Added** page has been expanded to include a 180-day option. This enhancement provides greater flexibility for retrieving older content on this page.

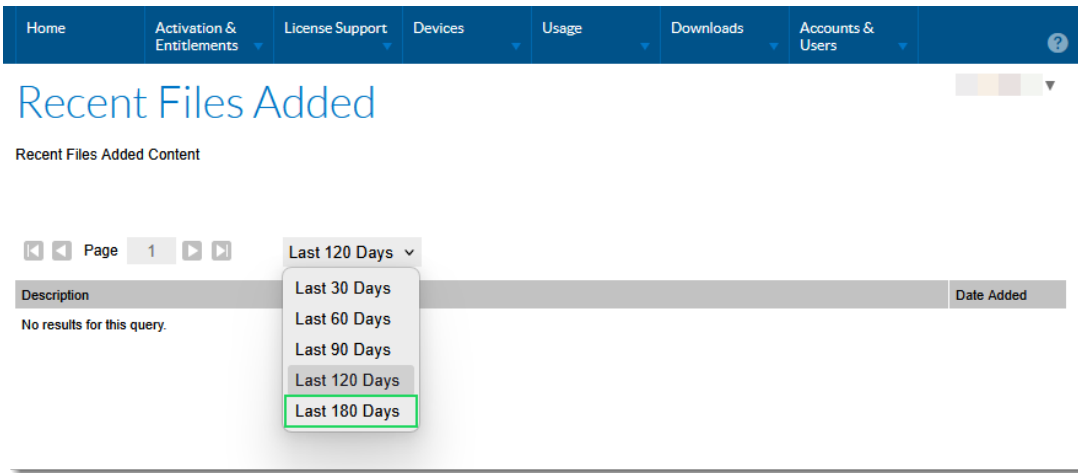


Figure 21: The dropdown menu on the **Recent Files Added** list now includes a new **Last 180 Days** option.

Enhanced Performance for Cloud Licensing Service

(Cases 02869447, 02904288, 02908404; SWM-16623)

Performance upgrades to the Cloud Licensing Service (CLS) now enable faster processing and better scalability for high-volume operations:

Previous Performance	Current Performance
Processing 200 CLS license updates took 5-7 minutes	3,000 CLS instances mapped to a product with feature quantity change completed in 2 minutes 20 seconds.
Changes for 1,400 CLS instances took up to 1.5 hours.	10,000 CLS license updates now processed in just 7 minutes.
High-volume CLS changes took up to 12 hours.	

These enhancements dramatically reduce wait times and improve efficiency for high-volume licensing operations.

User Management Enhancements in 2025.06

The following user management enhancement was added in the 2025.06 release.

Automated User Provisioning from Identity Providers (IdPs) to FlexNet Operations

(SWM-21825)

Revenera is introducing a new capability that simplifies user management for producers implementing Single Sign-On (SSO) with FlexNet Operations.

Previously, producers were required to manually replicate user information from their Identity Provider (IdP)—such as Okta or Entra—into FlexNet Operations. This manual process was time-consuming and error-prone, especially for SaaS providers managing large user bases.

Starting with the 2025.06 release, the Producer Portal now enables producers to automate their user provisioning from IdPs. Any changes to user data—including new user creation, identity updates, and user deletions—are automatically synced from the IdP to the Producer Portal, ensuring consistency.

This enhancement enables seamless synchronization of user identities, eliminating the need for manual duplication.

For detailed information, refer to the relevant section:

- [Prerequisites for User Synchronization](#)
- [Supported IdPs](#)
- [Configuring Your IdP](#)
- [Impact of IdP User Changes on FlexNet Operations](#)
- [Setting Up User Synchronization in FlexNet Operations](#)
- [Enabling and Configuring User Synchronization in Each Portal](#)
- [Assigning Users to Accounts Post Sync](#)
- [Monitoring User Synchronization](#)

Prerequisites for User Synchronization

By default, user synchronization is disabled. To enable this feature, contact Revenera Support.

The user configuring the user synchronization for the Producer Portal and/or the End-User Portal must have a role with the **Manage SAML SSO** permission.

Single sign-on with SAML must be configured for the portal whose users are to be synced (Producer Portal and/or End-User Portal). For more information, see the topic [Single Sign-On Support with SAML](#) in the FlexNet Operations User Guide.

Supported IdPs

FlexNet Operations supports any identity provider that complies with SCIM 2.0 and later. Examples include:

- Okta (<https://www.okta.com>)

- Microsoft Entra (<https://www.microsoft.com/en-gb/security/business/microsoft-entra>)
- Salesforce (<https://www.salesforce.com>).

Configuring Your IdP

To enable secure communication for user synchronization between the IdP and FlexNet Operations, you must provide the following information in your IdP:

- **Base URL**—Point your IdP to the following endpoints to communicate with FlexNet Operations:

- **Producer Portal**

`https://<siteID>-fno.flexnetoperations.com/scim/v2`

- **End-User Portal**

`https://<siteID>.flexnetoperations.com/scim/v2`

In both URLs, replace <siteID> with your organization's site ID which is supplied by Revenera.

- **API Token**—Provide the access token generated by FlexNet Operations. This can be generated in the Producer Portal (under **Accounts & Users > Manage Access Tokens**). The token type must be NORMAL.



Tip ▪ For more information about token generation, see the topic [Managing Access Tokens](#) in the *FlexNet Operations User Guide*.

Impact of IdP User Changes on FlexNet Operations

The following changes made to users in the IdP are synced with FlexNet Operations:

- New users created
- Updated user data (for example, email address, contact details)
- Users deleted



Important ▪ Users deleted in the IdP are not removed from FlexNet Operations. Instead, their status is set to *Inactive*. Inactive users cannot access the system unless reactivated.

Setting Up User Synchronization in FlexNet Operations

You set up user synchronization on the **Manage User Synchronization** page (available from the **Administer** menu).

You have two setup options:

- **Configuring User Synchronisation for Producer Portal.**
- **Configuring User Synchronisation for End User Portal.**

The setup process is identical for both portals.

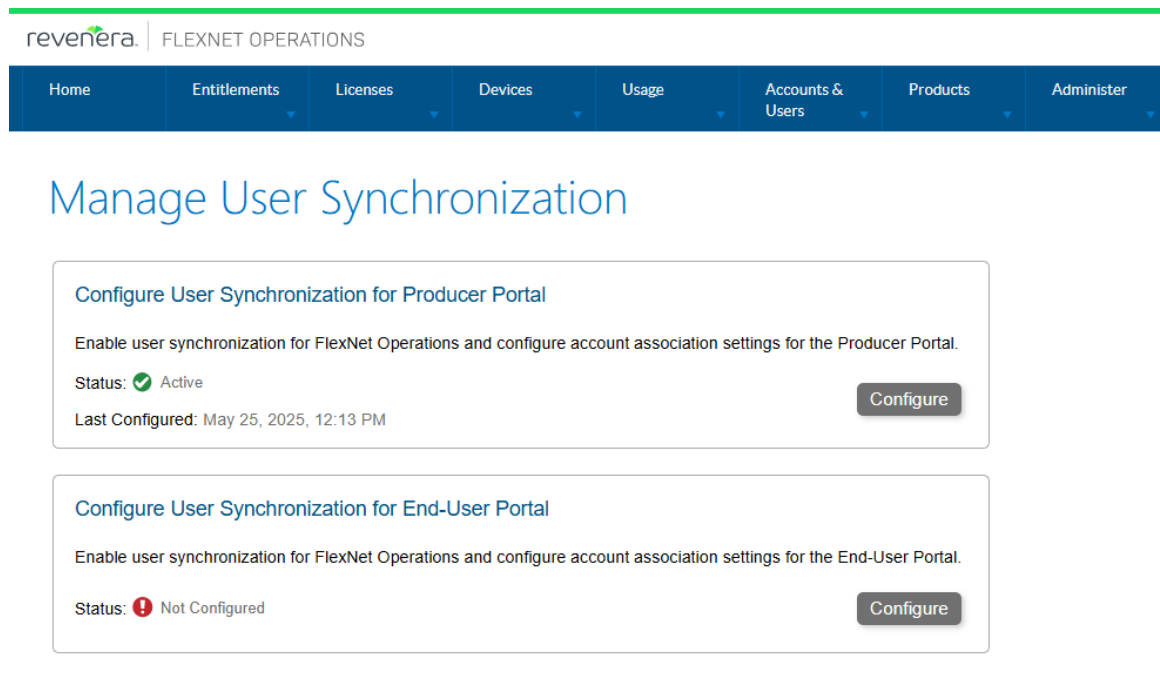


Figure 22: The **Manage User Synchronization** page serves as the starting point for setting up user synchronization in both the Producer Portal and End-User Portal..

Enabling and Configuring User Synchronization in Each Portal

Clicking **Configure** on the **Manage User Synchronization** page opens the page where you can configure the user synchronization settings for the Producer Portal and the End-User Portal, respectively.

The first checkbox, **Enable User Synchronization**, lets you easily switch user synchronization between your IdP and the Producer Portal or the End-User Portal on and off.

Assigning Users to Accounts

You need to define the account to which synced users will be associated. Your options are:

- **Use an account**—Select this option if all synced users should be associated with a specific account. You can select this account using the **Select Account** dropdown, which will display all accounts that are currently set up for your organization.

This option, when paired with IdP group mapping to FlexNet Operations roles (see [Mapping IdP Groups to FlexNet Operations Roles](#)), provides the most efficient user synchronization method, requiring no additional manual intervention.

- **Use the locked account**—Select this option if all synced users should be associated with the default account, which is automatically created by the IdP sync process. The default account is named IDP_SYNC_DEFAULT_PRODUCER for the Producer Portal and IDP_SYNC_DEFAULT_CUSTOMER for the End-User Portal.

This option is suitable if you are creating users for multiple FlexNet Operations accounts. In a later step, discussed in section [Assigning Users to Accounts Post Sync](#), you can map these users to an account of your choice and also assign them a role.

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Configure User Synchronization for Producer Portal

Enable User Synchronization: ☒ ?

User Association to Account

Account: ☒ Use an account ?
☐ Use the locked account ?

Select Account: MYORG x v

Cancel Save

IdP Group to FlexNet Operations Role Mapping

Group	Role	Actions
System Admins	System Administrator x	x v
Customer Support	Alert_role x Customer Rep 2.0 x IT BackOffice Manager x	x v
Executive	Executive x	x v
Sales	Customer Rep 2.0 x	x v

Add

Figure 23: Here's a possible view of the **Configure User Synchronization for Producer Portal** page where synced users are added to the MYORG account, and IdP groups are mapped to FlexNet Operations roles.

Mapping IdP Groups to FlexNet Operations Roles

Optionally, if your IdP organizes users into groups, you can map each group to one or more FlexNet Operations roles. Upon sync, these users will be assigned the role(s) that you specified for their group.

Example: If your IdP has a group called **Customer Support** and you want to give all users in this group the roles Customer Rep 2.0 and IT BackOffice Manage, you could add the following row:

IdP Group to FlexNet Operations Role Mapping

Group	Role
Customer Support	Customer Rep 2.0 x IT BackOffice Manager x



Important ▪ When mapping groups, the group name must be entered exactly as it appears in your IdP, including capitalization.

If groups are not mapped to roles, or if a user does not belong to a group, they are automatically created in FlexNet Operations and assigned the default role:

- **Default Producer Role** for the Producer Portal
- **Default Portal Role** for the End-User Portal

These default roles grant only the **View Feature** permission, which allows users to view the Home page and access the Logout button.

Assigning Users to Accounts Post Sync

If you selected the option **Use the locked account** on the **Configure User Synchronization** page for either of the portals, the **Approve User Access** page (also available from the **Administer** menu) will list all users linked to the default account (IDP_SYNC_DEFAULT_PRODUCER for the Producer Portal and IDP_SYNC_DEFAULT_CUSTOMER for the End-User Portal). The tabbed interface groups users into customer users and producer users.

The screenshot shows the 'Approve User Access' page in the FlexNet Operations interface. The page has a navigation bar at the top with links to Home, Entitlements, Licenses, Devices, Usage, Accounts & Users, Products, Administer, and Analytics. The 'Approve User Access' title is prominently displayed. Below the title, there is a search bar with a dropdown menu set to 'Requesting User' and a search button. The main content area is divided into two tabs: 'Customer User' and 'Producer User'. The 'Producer User' tab is active, showing a table of users. The table has columns for 'Requesting User', 'User Id', 'Date & Time', and an 'Associate Account' link. The table lists five users: Sachin Tripathi, PRScim User1, Scim User1, vikram karli, and Vibahv Angadi. Each user has a checkbox in the 'Requesting User' column and a corresponding 'Associate Account' link in the last column. The 'Associate Account' link is a blue text that says 'Associate Account'.

☐	Requesting User	User Id	Date & Time	
☐	Sachin Tripathi		May 18, 2025, 4:20 PM	Associate Account
☐	PRScim User1		May 13, 2025, 7:54 PM	Associate Account
☐	Scim User1		Feb 20, 2025, 12:53 PM	Associate Account
☐	vikram karli		Feb 12, 2025, 5:16 AM	Associate Account
☐	Vibahv Angadi		Feb 10, 2025, 5:15 AM	Associate Account

The **Approve User Access** page is tabbed and lists all users synced from your IdP to FlexNet Operations that were associated with the locked (default) account.



Note - Users assigned to a locked account will be listed on the **Approve User Access** page until they are assigned a new account.

On the **Approve User Access** page, you can efficiently associate users with accounts and assign roles. The interface provides options for assigning accounts to individual users via the **Assign Account** hyperlink or managing multiple users simultaneously by selecting them and clicking the **Assign Account** button above the table.

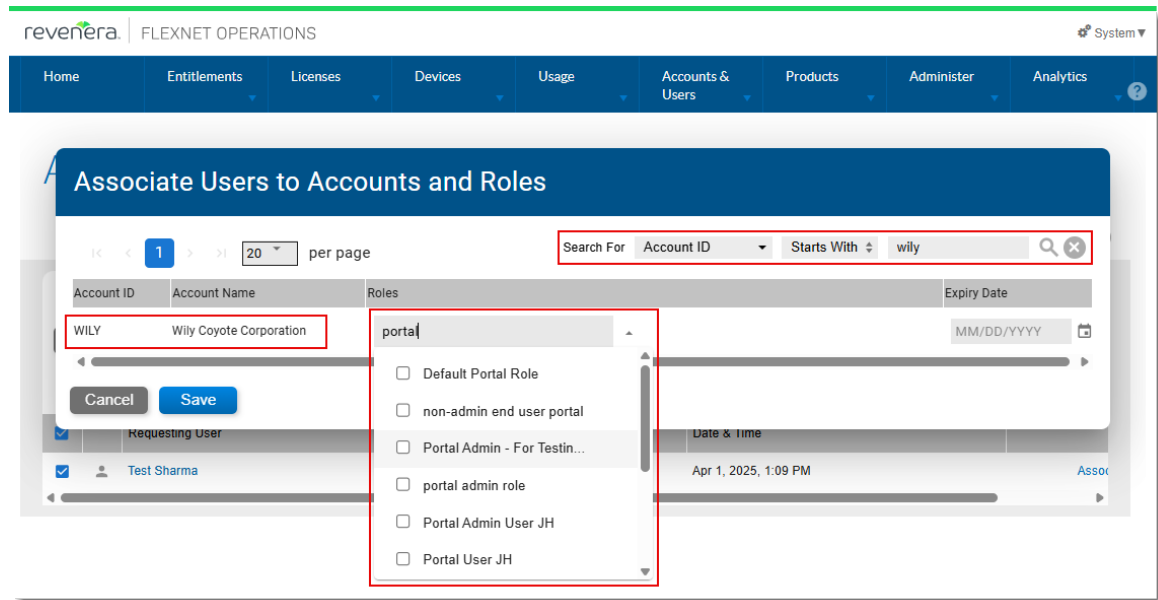


Figure 24: Example view of the **Associate Users to Account and Roles** window. The search bar is used to locate a specific account, and the **Roles** field supports text-based filtering to narrow down role selections.

Monitoring User Synchronization

Producers can easily monitor and track failed user synchronization attempts from the **User Synchronization Logs** page (also available from the **Administer** menu). The interface offers advanced search capabilities, allowing users to filter results by:

- Email address
- Date
- Time of failure

Each log entry provides key details, including:

- User's email address
- Associated portal (Producer Portal or End-User Portal)
- Date and time of failure
- Failure reason or error details (for example, missing role mapping, invalid account reference, IdP attribute mismatch)

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User Synchronization Logs

Date & Time

May 01, 2025 00:00 - May 26, 2025 23:59

Search For

Email

Equals

Enter search term...

Failure Logs

Email address	Portal	Date and Time	Error Code	Details
zlantray3562@	Producer	May 14, 2025 16:02:16	200	Failed to send REST API request: {"statusInfo":{"status":"FAILURE","reason":"A... View More
zlantray3562@	Producer	May 14, 2025 16:51:36	200	Failed to send REST API request: {"statusInfo":{"status":"FAILURE","reason":"A... View More
akhil123456@	Producer	May 22, 2025 07:10:58	404	Failed to send REST API request: {<html><head><title>FLEXnet - Error report<... View More

<

1

>

50

per page

Figure 25: An example of the **User Synchronization Logs** page.

With these insights, producers can quickly identify and resolve onboarding issues, ensuring a smoother synchronization workflow.

Features and Enhancements in 2025.05

Features and enhancements were added to the following areas of FlexNet Operations in the 2025.05 release:

- [Data Analytics Enhancements in 2025.05](#)
- [Device Management Enhancements in 2025.05](#)
- [Entitlement Management Enhancements in 2025.05](#)
- [SOAP and REST Web Services Enhancements in 2025.05](#)
- [User Experience Enhancements in 2025.05](#)

Data Analytics Enhancements in 2025.05

The following enhancement was made to the Analytics functionality in 2025.05.

New "Created By" and "Last Modified By" Information in Data Warehouse

(Case 02969613, SWM-25037)

Several new fields have been added to the Data Warehouse. The most prominent updates are fields for "Created By" and "Last Modified By" information, which can now be extracted using the Analytics functionality, a data share or the [Data Access API](#) (DAPI). The information enables producers to track the origin and updates of data for better accountability and data management.

The following tables list all the fields that have been added to the data sets, along with a description of the data.

Table 1 ▪ Data set: **device**

DAPI	Data Share	Description
OrderID	ORDER_ID	The value entered in FlexNet Operations while configuring the entitlement line items. (This may be imported from your CRM/ERP application.)
StartDate	LINE_ITEM_START_DATE	Start date of the line item.
DeviceCreatedBy	DEVICE_CREATED_BY	This field identifies the user who created the device.
DeviceUpdatedBy	DEVICE_UPDATED_BY	This field identifies the user who updated the device.
AddOnCreatedBy	ADDON_CREATED_BY	This field identifies the user who first mapped the line item to the device.
AddOnUpdatedBy	ADDON_UPDATED_BY	This field identifies the user who updated the mapped line item to the device.

Table 2 ▪ Data set: **entitlement**

DAPI	Data Share	Description
ActivatableItemOwners	ACTIVATABLE_ITEM_OWNERS	This field identifies users who self-register by logging in to the End-User Portal with an activation ID and set up their own user account.
EntitlementDescription	ENTITLEMENT_DESCRIPTION	A brief, optional description of the entitlement as defined in FlexNet Operations.
EntitlementCreatedBy	ENTITLEMENT_CREATED_BY	This field identifies the user who created the entitlement.
EntitlementUpdatedBy	ENTITLEMENT_UPDATED_BY	This field identifies the user who updated the entitlement.
LineItemCreatedBy	LINEITEM_CREATED_BY	This field identifies the user who created the line item.

Table 2 ▪ Data set: **entitlement**

DAPI	Data Share	Description
LineItemUpdatedBy	LINEITEM_UPDATED_BY	This field identifies the user who updates the line item.
MaintenanceLineItemCreatedBy	MAINTENANCE_LINEITEM_CREATED_BY	This field identifies the user who created the maintenance line item.
MaintenanceLineItemUpdatedBy	MAINTENANCE_LINEITEM_UPDATED_BY	This field identifies the user who updated the maintenance line item.
ProductCreatedBy	PRODUCT_CREATED_BY	This field identifies the user who created the product.
ProductUpdatedBy	PRODUCT_UPDATED_BY	This field identifies the user who updated the product.

Table 3 ▪ Data set: **fulfillment**

DAPI	Data Share	Description
FulfillmentCreatedBy	FULFILLMENT_CREATED_BY	This field identifies the user who created the fulfillment.
FulfillmentUpdatedBy	FULFILLMENT_UPDATED_BY	This field identifies the user who updated the fulfillment.

Table 4 ▪ Data set: **account**

DAPI	Data Share	Description
AccountCreatedBy	ACCOUNT_CREATED_BY	This field identifies the user who created the account.
AccountUpdatedBy	ACCOUNT_UPDATED_BY	This field identifies the user who updated the account.
AccountHierarchyCreatedBy	ACCOUNT_HIERARCHY_CREATED_BY	This field identifies the user who created the account hierarchy.
AccountHierarchyUpdatedBy	ACCOUNT_HIERARCHY_UPDATED_BY	This field identifies the user who updated the account hierarchy.

Table 5 ▪ Data set: **product-feature**

DAPI	Data Share	Description
ProductCreatedBy	PRODUCT_CREATED_BY	This field identifies the user who created the product.
ProductUpdatedBy	PRODUCT_UPDATED_BY	This field identifies the user who updated the product.
FeatureCreatedBy	FEATURE_CREATED_BY	This field identifies the user who created the feature.
FeatureUpdatedBy	FEATURE_UPDATED_BY	This field identifies the user who updated the feature.

Table 6 ▪ Data set: **user**

DAPI	Data Share	Description
UserCreatedBy	USER_CREATED_BY	This field identifies the user who created the user.
UserUpdatedBy	USER_UPDATED_BY	This field identifies the user who updated the user.

New Fields in FlexNet Operations Analytics

Producers using the Analytics functionality need to know that by default none of the new fields are selected for display in the Analytics report tables. As an example, the following screenshot shows the default column selection for the Devices Details report:

The screenshot displays the 'Devices Details' report interface. The main table lists device records with columns: ACCOUNT_NAME, ACCOUNT_ID, ACTIVATION_ID, and ACTIVATION_DELETE. A search filter is applied to the ACCOUNT_NAME column. On the right, a 'Search' filter panel is visible, showing a list of fields with checkboxes. The fields 'DEVICE_CREATED_BY' and 'DEVICE_UPDATED_BY' are highlighted with red boxes, indicating they are not selected by default.

ACCOUNT_NAME	ACCOUNT_ID	ACTIVATION_ID	ACTIVATION_DELETE
ACC-ANU-JN11-1	ACC-ANU-JN11-1	PTANUREWEC-7F1-1E58-581	N
ACC-ANU-MY05-1	ACC-ANU-MY05-1	8074-3052-1c76-e54e-0bb3-373f	N
ACC-ANU-MY05-1	ACC-ANU-MY05-1	068e-2d0e-07dc-bc67-da85-884f	N
ACC-ANU-MY08-1	ACC-ANU-MY08-1	a310-3cd6-8e8f-557a-c64d-74f1	N
ACC-ANU-MY12-2	ACC-ANU-MY12-2	vEC-f-B57-581	N
ACC-ANU-MY12-2	ACC-ANU-MY12-2	ACT-7-814f-581	N
ACC_202209	ACC_202209	ACT-4-CAac-281	N
ACC_202209_2	ACC_202209_2	ACT-1-81ac-281	N
ACC_202209_3	ACC_202209_3	ACT-c-49ee-281	N
ACC_202209_4	ACC_202209_4	ACT-8-6114-381	N
ACC_202209_5	ACC_202209_5	ACT-5-FA14-381	N

Total records: 3,245 / Records per page: 50

Search filter settings:

- ☒ CREATE_DATE
- ☐ CREATE_DATE_ID
- ☒ DESCRIPTION
- ☐ Device Deleted
- ☐ DEVICE_ADD_REF_ID
- ☒ DEVICE_ALIAS
- ☐ DEVICE_CREATED_BY
- ☐ DEVICE_DIM_REF_ID
- ☒ DEVICE_NAME
- ☐ DEVICE_TYPE
- ☐ DEVICE_UPDATED_BY
- ☐ DWH_LASTUPDATED_DATE
- ☒ EMAIL
- ☐ ENT_DIM_REF_ID
- ☒ ENTITY_CREANT_ID

Device Management Enhancements in 2025.05

The following enhancements to device management were added in the 2025.05 release.

- Device History Now Listing Users Who Triggered Events
- Bulk Updating Account Information for Devices

Device History Now Listing Users Who Triggered Events

(Cases 02685529, 02869243; SWM-13895)

The **Device History** page (available by clicking **View** > **View Device History** on a **Device** or **View Server** page) now includes a **User Details** column, which lists the name of the user who triggered an event (for example, creating a device or mapping entitlements).

This improvement enhances transparency by identifying who performed particular actions on a device, making it easier to troubleshoot issues.

Device History

[Back to list](#)

View

Edit

Licenses

Server Details

Device ID: YNKK37HGRMG7

Name: cls-device1

Filter History

Event Type:

Date Range (Start):

Date Range (End):

Filter History

History

Time	Event	Additional Details	User Details
2025-04-22T00:11:22.667-07:00	A capability response was sent.	ForceResponse=true	admin@mycompany.com
2025-04-22T00:11:22.620-07:00	The host trusted status changed.	untrusted	admin@mycompany.com
2025-04-22T00:11:22.607-07:00	A capability request was received.		admin@mycompany.com
2025-04-22T00:11:21.963-07:00	Entitlement mappings manually changed.	Entitlement=(ActivationID=a1e2-c7de-ca59-4491-967a- -d2fa OldRequested=0 Requested=10 OldConsumed=0 Consumed=10)	admin@mycompany.com
2025-04-22T00:11:21.957-07:00	Entitlements mapped.		admin@mycompany.com
2025-04-22T00:10:58.360-07:00	Host created.		admin@mycompany.com

Figure 26: Example of the **Device History** page with the **User Details** column.

Bulk Updating Account Information for Devices

(SWM-25969)

Producers can now use the newly introduced Devices Template to assign an account to multiple devices at a time. This offers an easier and faster UI-based way to perform bulk transfers of entitlements between accounts, including stock returns and the transfer of faulty appliance entitlements.

- To download the Devices Template (XLSX format), click **Administer > Import Data Objects** and select the **Data Import Templates** tab.

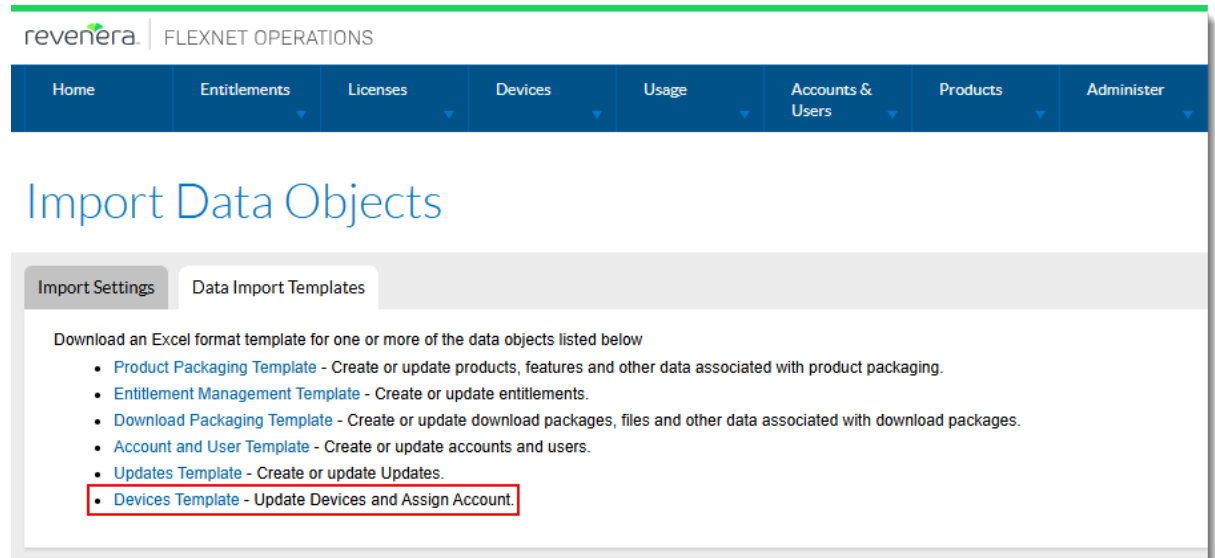


Figure 27: The Devices Template can be downloaded from the **Import Data Objects** page.

In the template, the following properties must be provided to update account information for devices: host id, publisher name, host class, host id type and account ID.

This screenshot shows an example of a populated template:

	A	B	C	D	E	F
1	TransactionType	HostID	PublisherName	HostClass	HostIDType	AccountID
2	AssignAccountToHost	SL50B42UBPE	fnedemo	CLIENT	ETHERNET	ACMESoftware
3	AssignAccountToHost	BA55BPEB42U	fnedemo	CLIENT	ETHERNET	ACMESoftware
4	AssignAccountToHost	BPESB42UL50	fnedemo	CLIENT	ETHERNET	ACMESoftware
5	AssignAccountToHost	SPEL4U250BB	fnedemo	SERVER	VM_UUID	ACMESoftware
6						
7						
8						
9						
10						

Figure 28: Example of a populated XLSX template.

Once the Devices Template has been populated, it must be saved as a Unicode .txt file before it can be imported into FlexNet Operations, using the **Import Settings** tab on the **Import Data Objects** page.

Entitlement Management Enhancements in 2025.05

The following enhancements to entitlement management were added in the 2025.05 release.

- Ability to Limit Activation of FlexNet Embedded Nodelocked Licenses to Servers and/or Standalone Devices
- CONTAINER_ID Host ID Now Available for Docker Containers
- Merge Tags Added to Fulfillment On Hold Email Template to Improve Communication
- Advanced Search for Entitlements Includes Custom License Models

Ability to Limit Activation of FlexNet Embedded Nodelocked Licenses to Servers and/or Standalone Devices

(SWM-19823, SWM-24434)

Producers can now specify whether a nodelocked FlexNet Embedded license can only be activated on license servers, standalone devices, or both. This enhancement increases a producer's control over license activation, and prevents license leakage caused by uncounted licenses being activated on a license server.

Controlling the activation of FlexNet Embedded licenses is done during license model creation (**Administer > License Models > Create new license model**). When selecting the license model type **Embedded**, producers can select where the license model can be activated using the new option, **Hosted On**. The following options are available:

- **License Servers**—Licenses can only be activated on license servers. Attempts to activate a license on a standalone device will fail.
- **Standalone Devices**—Licenses can only be activated on standalone devices. Attempts to activate a license on a license server will fail.
- **Both**—Licenses can be activated on license servers and on standalone devices. This is the default option.

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Home Entitlements Licenses Devices Usage Accounts & Users

Package Products - License Models

Create A License Model

Choose if this license model is counted.

Name:

Description:

State: Draft

Expiration: ☒ None ☐ Permanent ☐ Expiring

Type: ☒ Embedded ☐ Non Embedded ☐ Dynamic Monetization

Hosted On: ☐ Both ☐ License Servers ☒ Standalone

Counted: ☐ Yes ☐ No

Figure 29: The **Hosted On** property is set during license model creation.

The above controls apply to online and offline activations and are enforced regardless of activation type (Producer Portal, Web services, capability requests).

Behavior when changing a license model for a product

To explain the behavior, consider that you have the following license models defined:

- License model 1: **HostedOnServerOnly**, **Hosted On** property set to **License Servers**
- License model 2: **HostedOnStandalone**, **Hosted On** property set to **Standalone**

When the license model of an existing product is changed—for example, the license model is changed from **HostedOnServerOnly** to **HostedOnStandalone**—FlexNet Operations will correctly validate license applicability based on device type.

While the entitlement line items are not removed automatically, once the license model is changed, licenses with **HostedOnStandalone** are no longer shown for Cloud Licensing Service (CLS) instances or local license servers. Users must manually remove entitlements if they are no longer valid for the device.

This behavior ensures that licenses meant only for standalone devices won't mistakenly appear for license servers, reducing confusion and helping enforce correct usage.

CONTAINER_ID Host ID Now Available for Docker Containers

(Case 02758504, SWM-19930)

The list of hostid types available for Flexnet Publisher certificate-based licensing now also includes the host ID type CONTAINER_ID. The CONTAINER_ID is used to node-locking a license server and feature licenses to a docker container host ID.

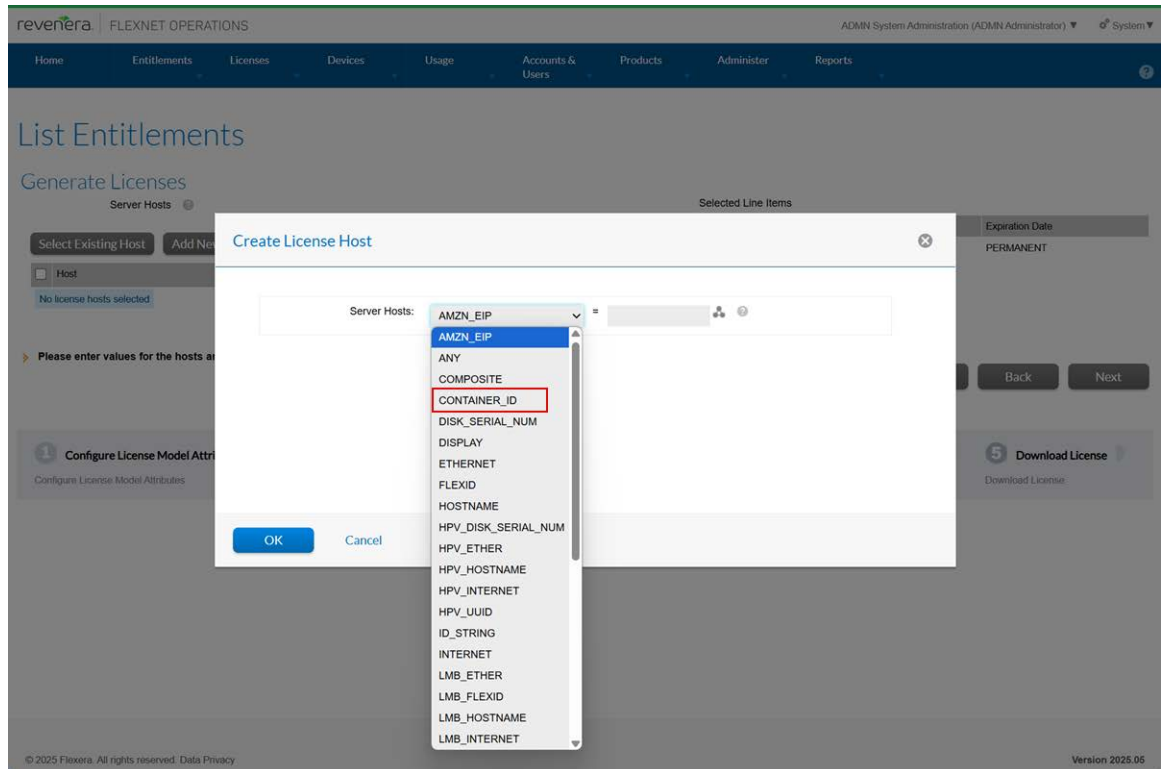


Figure 30: The CONTAINER_ID can be selected in the **Create License Host** window.

Producers wanting to use CONTAINER_ID as a host ID must build a new version of the Vendor Certificate Generator (VCG) executable and need to change the generator configuration to version 16.2.3.0. Instructions on how to build a new version can be found in the Flexnet Operations User Guide, topic [Creating a FlexNet Publisher Licensing Toolkit License Generator \(VCG\) Configuration](#).

Merge Tags Added to Fulfillment On Hold Email Template to Improve Communication

(SWM-25684)

When an on-hold fulfillment is created, an email can be triggered to notify the producer that the fulfillment is waiting for a license to be set. The Fulfillment On Hold template, on which such an email would be based, has now been enhanced to include additional merge tags to include relevant details. (Previously, the only merge tag available in this template was `[[FulfillmentID]]`.)

List of Merge Tags in Fulfillment On Hold Template

The following table lists all merge tags currently available in the Fulfillment On Hold template.

Merge Tag	Description	Example Preview Value
[[AcctId]]	Account ID	ACME
[[AcctName]]	Account Name	MYORG
[[ACTIVATION_DATE]]	Activation Date	Feb 28, 2007
[[ActivationID]]	Activation ID	9e8f-8b6f-0fbf-4488-950b-e4a5-1bfe-e73c
[[EntitlementID]]	Entitlement ID	bf1a-1191-4957-46aa-4f7f-fe
[[EXPIRATION_DATE]]	Order Line - Last day that the object is effective (exclusive)	2/1/2003
[[FulfillmentCount]]	Fulfillment Count	< FulfillmentCount >
[[FulfillmentID]]	Fulfillment ID	< FulfillmentID >
[[LICENSE_MODEL_ATTRIBUTES]]	License Model Attributes	< LICENSE_MODEL_ATTRIBUTES >
[[LICENSE_MODEL_NAME]]	License Model Name	< LICENSE_MODEL_NAME >
[[LicenseTechnology]]	License Technology	FlexNet Licensing
[[OverdraftCount]]	Overdraft Count	< OverdraftCount >
[[PartnerTierName]]	Partner Tier Name	End Customer
[[PartNumber]]	Part Number	PartNumberOne
[[PRODUCT_NAME]]	Product Name	Test Product
[[PRODUCT_VERSION]]	Product Version	7.6
[[ShipToAddress]]	Ship To Address	< ShipToAddress >
[[ShipToEmail]]	Ship To Email	< ShipToEmail >
[[START_DATE]]	Start Date	< START_DATE >

Sample Code for Fulfillment On Hold Template

This sample shows how the merge tags could be used in the Fulfillment On Hold template.

License text has not been set for the following generated fulfillment. The administrator was notified. You will receive an email when the license is ready to download.

Fulfillment On Hold

FulfillmentID = [[FulfillmentID]]

Activation ID: [[ActivationID]]

Entitlement ID: [[EntitlementID]]

Sold to AccountName: [[AcctName]]

Sold to AccountID: [[AcctID]]

ChannelPartnerDetails:

[[PartnerTierName]]:

ProductName: [[PRODUCT_NAME]]

ProductVersion: [[PRODUCT_VERSION]]

PartNumber: [[PartNumber]]

LicenseTechnology: [[LicenseTechnology]]

LicenseModel: [[LICENSE_MODEL_NAME]]

LicenseModelAttributes:

[[LICENSE_MODEL_ATTRIBUTES]]

StartDate: [[START_DATE]]

ExpirationDate: [[EXPIRATION_DATE]]

FulfillmentDate: [[ACTIVATION_DATE]]

OverdraftCount :[[OverdraftCount]]

FulfillmentCount : [[FulfillmentCount]]

Sample Email Based on the Fulfillment On Hold Template

The code above would result in an email similar to the following:



Outlook

License Fulfillment On-Hold Notification

From qa01@flexnetoperations.com <qa01@flexnetoperations.com>
Date Thu 4/24/2025 10:12 AM
To Some Name <name@mycompany.com>

License text has not been set for some of the fulfillments generated. The administrator was notified. You will receive an email when the license is ready to download.

Fulfillment On Hold
FulfillmentID = **ACME-CP-abcd-a12B-6566-691**
Activation ID: CPLMM-5ead-1234-1F66-691
Entitlement ID: 6fd4-65c9-d682-12kl-95f5-60bd-adf8-8b52

ShipToAddress: Hyderabad
ShipToEmail: name@mycompany.com

Sold to AccountName: Acme Software Corporation
Sold to AccountID: ACME
ChannelPartnerDetails:
PartnerTierName: End Customer, orgName: ACME, contactName: ACME Sys Admin; PartnerTierName:
Eng01Reseller, orgName: WILY, contactName: jyoti1 Rana1;

ProductName: CustProd
ProductVersion: 1.0
PartNumber: PN001
LicenseTechnology: LT_Manual
LicenseModel: LM_Manual

LicenseModelAttributes:

StartDate: 2025-04-23 17:00:00.0
ExpirationDate: 2025-07-02 17:00:00.0
FulfillmentDate: Wed Apr 23 21:41:59 PDT 2025

OverdraftCount: 0
FulfillmentCount: 23

Figure 31: Example of an email with detailed fulfillment information, based on the Fulfillment On Hold template.

Advanced Search for Entitlements Includes Custom License Models

(Case 02987224, SWM-25152)

On the **List Entitlements** page, the **Advanced Search** now allows users to filter entitlements by custom license models. This enhancement is available in both the Producer Portal and the End-User Portal.

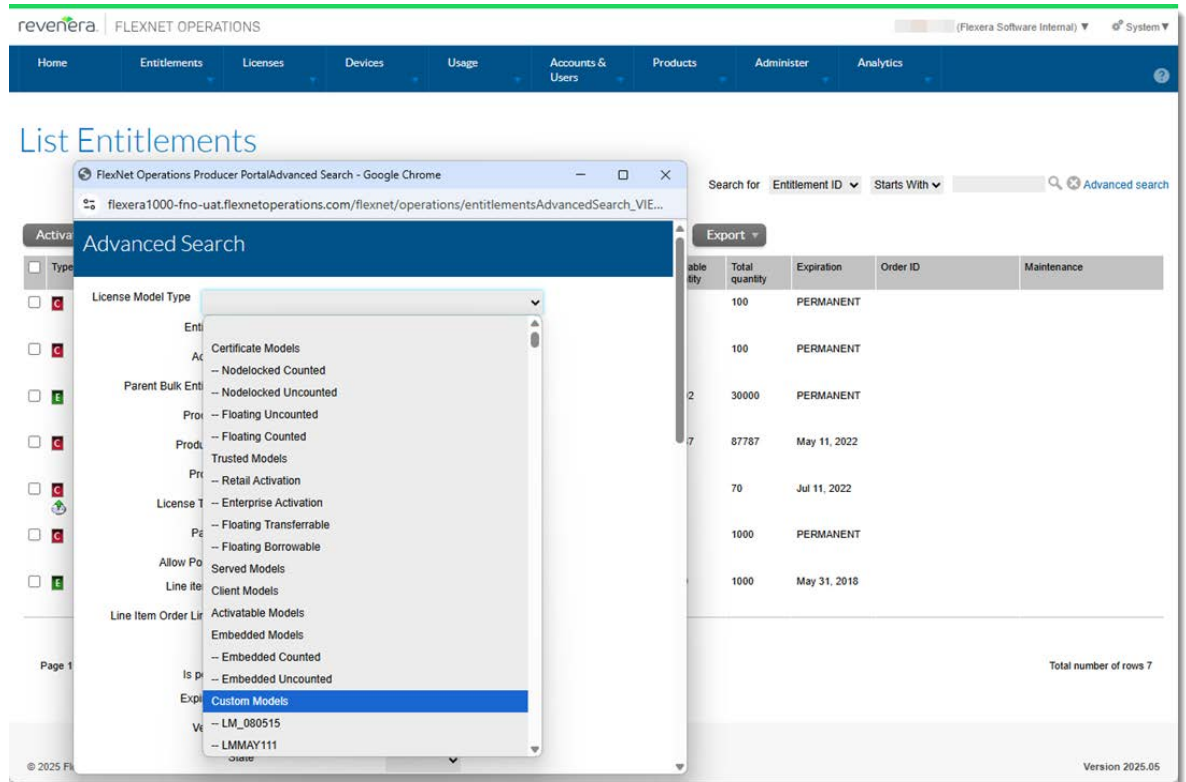


Figure 32: The Advanced Search window now includes custom license models when searching for entitlements.

SOAP and REST Web Services Enhancements in 2025.05

The following enhancement was added to the SOAP and REST Web Services module in the 2025.05 release.

Zero Mapping of Activation IDs on Cloud Licensing Service Instances

(SWM-25022)

The 2025.05 release introduces version 7 of the ManageDevice SOAP web service. The new version contains a new operation, **zeroCountAddonLineItems**, which enables producers to explicitly set an activation ID with a zero allocation mapping on a Cloud Licensing Service (CLS) instance.

This enhancement enables customers to clearly distinguish between activation IDs that are fully entitled for allocation (full count) and those that are restricted for allocation on the CLS.

Previously, when querying activation IDs via SOAP services like **searchDevices**, there was no easy way to identify activation IDs that were intentionally restricted from allocation. Such activation IDs simply did not appear, making it difficult for customers to differentiate between no mapping and full allocation from the master entitlement.

By explicitly creating a zero allocation mapping, producers can track and manage entitlement behavior accurately, improving license compliance and allocation control across their deployments.

Notes for Using zeroCountAddonLineItems

- The configuration option **Allow mapping zero counts to FlexNet Embedded devices** (under **System > Configure > FlexNet Operations > Embedded Device Settings**) must be selected.
- Values submitted in the web request are not validated. As long as the request contains a valid device ID and line item details, the relevant mapping will be updated.
- No validation takes place. Whatever mapping line item customer provides is mapped to a particular device, regardless of e.g. whether the license model is supported.
- Information related to calling the **zeroCountAddonLineItems** operation will be tracked and can be reviewed on the **Search Transactions** page in the Producer Portal (under **System > Transaction History**).

Example Request for zeroCountAddonLineItems

The sample code, below, shows a request to allocate zero counts from activation ID **83a2-9824-c72b-488t-bbde-9bbb-fce3-1344** to the device with ID **device1_type**.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
  instance">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:zeroCountAddonLineItemsRequest>
      <!-- 1 or more repetitions: -->
      <urn:requestList>
        <urn:deviceIdentifier>
          <urn:deviceType>SERVER</urn:deviceType>
          <!-- Optional: -->
          <urn:deviceId>device1_type</urn:deviceId>
          <!-- Optional: -->
          <urn:serverIds>
            <!-- 1 or more repetitions -->
            <urn:serverId>device1_type</urn:serverId>
          </urn:serverIds>
          <!-- Optional: -->
          <urn:deviceIdType>ETHERNET</urn:deviceIdType>
          <!-- Optional: -->
          <urn:publisherName>FLEXERA</urn:publisherName>
        </urn:deviceIdentifier>
        <!-- 1 or more repetitions: -->
        <urn:lineItem>
          <urn:lineItemIdentifier>
            <!-- Optional: -->
            <urn:activationId>83a2-9824-c72b-488t-bbde-9bbb-fce3-1344</urn:activationId>
            <!-- Optional: -->
            <urn:count>0</urn:count>
            <!-- Optional: -->
          </urn:lineItemIdentifier>
        </urn:lineItem>
      </urn:requestList>
    </urn:zeroCountAddonLineItemsRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Example Response for zeroCountAddonLineItems

The sample code, below, shows a response for a successful request.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  soapenv:Body
    <zeroCountAddonLineItemsResponse xmlns="urn:v7.fne.webservices.operations.flexnet.com">
      <statusInfo>
        <status>SUCCESS</status>
      </statusInfo>
      <responseData>
        <deviceIdentifier>
          <deviceType>SERVER</deviceType>
          <deviceId>device1_type</deviceId>
          <serverIds>
            <serverId>device1_type</serverId>
          </serverIds>
          <deviceIdType>ETHERNET</deviceIdType>
          <publisherName>FLEXERA</publisherName>
        </deviceIdentifier>
      </responseData>
    </zeroCountAddonLineItemsResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

User Experience Enhancements in 2025.05

The following user experience enhancement was added in the 2025.05 release.

- [Additional Web Service Transactions Visible in Producer Portal](#)
- [Selecting Individual Line Items in Entitlement Notification Email](#)

Additional Web Service Transactions Visible in Producer Portal

(SWM-24811, SWM-24812, SWM-24813, SWM-24817, SWM-24818)

The 2025.04 release introduced a number of enhancements that increase transparency into transactions performed on a device—whether initiated via web services or in the Producer Portal or End-User Portal. Such transactions are displayed on the **Search Transactions** page in the Producer Portal (under **System > Transaction History**).

In the 2025.05 release, the following additional webservice-based actions are now captured on the **Search Transactions** page:

- Deleting line items from a device
- Obsoleting a host
- Removing add-on line items from a device
- Move device from one account to another
- Deleting a device

Tracked Operations In 2025.05

Transactions are tracked for standalone devices, Cloud Licensing Service instances and local license servers. The following table lists the operations of the ManageDeviceService web service that are now tracked:

Transaction	Web Service Operation	Event Type	Description
Transactions tracked from release 2025.05 onwards			
Deleting a line item from a device	deleteAddOnLineItemsRequest	UPDATE	Tracks transactions where an entitlement line item was deleted on a device.
Obsoleting the host for a device	obsoleteHostRequest	DELETE	Tracks transactions where a host for a device was deleted.
Removing add-on line items	decrementAddonLineItemsRequest	UPDATE	Tracks transactions where an add-on line item was removed from a device.
Moving a device to a different account	moveDeviceRequest	UPDATE	Tracks transactions where a device is moved to a different account.
Deleting a device	deleteDeviceRequest	DELETE	Tracks transactions where a device is deleted.
Transactions tracked from release 2025.04 onwards			
Creating a device	createDeviceRequest	CREATE	Tracks all successful and failed attempts to create a device.
Linking entitlement line items to a device	linkAddonLineItems	UPDATE	Tracks transactions where an entitlement line item was linked to a device, or where a metered license was removed from a device.
Incrementing entitlement line items to devices	IncrementAddonLineItems	UPDATE	Tracks transactions where an entitlement line item was incremented on a device.
Updating a device	updateDevice	UPDATE	Tracks transactions where a device was updated.

For a use case example or information about how to view transaction details, see [Improved Transaction Visibility in Producer Portal](#).

Selecting Individual Line Items in Entitlement Notification Email

(Case 02971350, SWM-24682)

On the **List Entitlement By Orders** page, producers can now select individual line items to be included in the entitlement notification email, instead of including all line items in the email. This is useful in scenarios where only some of an entitlement's line items have been added or updated.

To include only certain line items from an entitlement, a producer needs to select the desired line items on the **List Entitlement By Orders** page and click the **Email** button, as shown in this screenshot:

The screenshot shows the 'Line Items' page with a table of entitlement line items. The first row is selected with a checkbox. The 'Email' button is highlighted in the bottom action bar.

	Type	Activation ID	Product	Part number	Start date	Expiration	Total quantity	Line item state	Maintenance
☒		ACT-8061-4Ec6-691 Edit Fulfill history	PTest14 Ver 2.0, Qty/Copy 1		Apr 25, 2025	Jul 25, 2025	3	Deployed	
☐		ACT-1961-19c6-691 Edit Fulfill history	PTest14 Ver 2.0, Qty/Copy 1		Apr 25, 2025	Jul 25, 2025	5	Deployed	
☐		PTFC-0277-5Fc6-691 Edit Fulfill history	PTest14 Ver 1.0, Qty/Copy 1		Apr 25, 2025	Jun 25, 2025	5	Deployed	
☐		PTFC-6342-24c6-691 Edit Fulfill history	PTest14 Ver 1.0, Qty/Copy 1		Apr 25, 2025	May 25, 2025	3	Deployed	

Page 1 of 1 Total number of rows 4

Buttons: Save & deploy, Save, Activate, View Transaction, View, Regenerate IDs, **Email**, Back

The next screen will show the entitlement notification email, which only contains the selected line item. The notification email might look like this:

The screenshot shows the entitlement notification email preview. The email body contains details about the entitlement, including the activation ID, product name, and order details. The activation ID is highlighted.

Language for email: English (United States) ?

Subject: Entitlement certificate for Entitlement ID:ENT-4c12-81B5-20c6-691 attached

Body content: XYZ Corporation grants

Partner Tier Name: End Customer
Org Display Name: Customer100
Org Name: CUST100
Contact Name: Shreyas C

the right to activate the following product(s):

ActivationID: ACT-8061-4Ec6-691

Product Name: PTest14
Product Description:
Count: 1

Order ID:
Quantity: 3
Start Date: Apr 25, 2025
Expiration Date: Jul 25, 2025
Permanent: No
Duration :
Length: 91
Units: Days

The Activation IDs will be required to login. You will also need the Hostid of the computer with which these licenses will be associated.
If you have any questions, contact your local XYZ Corporation office.
Rights and restrictions on the use of the products are set forth in XYZ Corporation License Terms agreement.

Buttons: Send, Complete, Cancel

Previously, if an entitlement contained more than one line item, the entitlement notification email would always include all of the entitlement's line items.

Features and Enhancements in 2025.04

Features and enhancements were added to the following areas of FlexNet Operations in the 2025.04 release:

- [Entitlement Management Enhancements in 2025.04](#)
- [User Experience Enhancements in 2025.04](#)
- [SOAP and REST Web Services Enhancements in 2025.04](#)

Entitlement Management Enhancements in 2025.04

The following enhancements to entitlement management were added in the 2025.04 release.

- [Allow Renewal License to Start Upon Expiry of Parent License](#)
- [Grouping Product Information in Entitlements Email Template](#)
- [New “Features” Column on List Entitlements Page](#)

Allow Renewal License to Start Upon Expiry of Parent License

(Case 02679546; SWM-21239)

Currently, mapping a renewal license to a device can result in the parent license being unmapped, temporarily leaving the device without a license.

This issue occurs when a renewal relation is set up between the parent and the child line items, and the renewed (child) line item has a future start date. When the renewed line is activated, it replaces the parent line mapped to the device. It is possible to create a renewal line item without linking to the parent line item; in this case there is no gap in license coverage.

To address this issue, the 2025.04 release introduces a configuration which allows producers to change the behavior when mapping renewal licenses to devices. The new configuration called **Retain mapping of the parent activation to the devices when mapping a child activation** is available under **System > Configure > Embedded Devices > Host Options**. By default, the option is unselected, maintaining the behavior of previous releases.

When this option is selected, the parent license remains mapped to the device even when a child license (for a renewal, upgrade or upsell) is applied. This means that the parent license continues to be available after the child line item has been mapped.

This enhancement allows producers to issue renewal licenses well before the parent license expires, and it enables customers to apply the renewal license early. This ensures uninterrupted license coverage throughout the device's activation lifecycle, preventing any interruptions.

There has been no change to the user experience. Activations are mapped as before:

- **Producer Portal**—On the **View Device** or **View Server** page (under **Devices > Devices**, click a hyperlinked device name), click **Licenses > Map Entitlements** or **Map by Activation IDs**.
- **SOAP web services**—Using the **incrementAddonLineItems** and **linkAddonLineItems** operations of the **ManageDeviceService** web service.



Note - Producers are responsible for explicitly unmapping unused/expired activations.

Grouping Product Information in Entitlements Email Template

(Cases 02749254, 02956269; SWM-21546)

This release introduces a new merge tag `[[FOR-EACH tag="EntitledProductLine"]]` for the Entitlement email template. This tag can be used to group all the products from a product line along with information about each product in the Entitlement email that customers will receive.

Use of the new merge tag is controlled by the configuration option **Allow grouping of product information based on product line in entitlement email template** (under **System > Configure > FlexNet Operations > General Options**). By default, this option is disabled.

This enhancement gives producers more flexibility when structuring their entitlement emails. Depending on whether the configuration option is selected or unselected, the Entitlement email can either:

- iterate the product line and print product information, or
- iterate the product and print product line information.

The following examples illustrate the different Entitlement emails that can be generated:

- [Configuration Option Selected, Iterating Product Lines](#)
- [Configuration Option Unselected, Iterating Products](#)

Configuration Option Selected, Iterating Product Lines

The following example code shows how to use the merge tag `[[FOR-EACH tag="EntitledProductLine"]]` to iterate through product lines and then iterate the products for each product line, along with sample output.

```
[[FOR-EACH TAG="Entitlement" child-only="true"]]
  [[FOR-EACH TAG="EntitlementLineItem"]]
    [[IF TAG="LicenseGenerator" VALUE="demo"]]
      [[FOR-EACH tag="EntitledProductLine"]]
        Product Line - [[ProductLine]]
        [[FOR-EACH tag="EntitledProduct"]]
          Product Name: [[Name]]
          Product Description: [[Description]]
        [[END FOR-EACH]]
      [[END FOR-EACH]]
      Part Number: [[PartNumber]]
      Permanent: [[Permanent]]
      Start Date: [[StartDate]]
      Expiry Date: [[ExpirationDate]]
      ActivationID: [[ActivationID]]
    [[END IF]]
  [[END FOR-EACH]]
[[END FOR-EACH]]
```

A resulting Entitlement email might look like this:

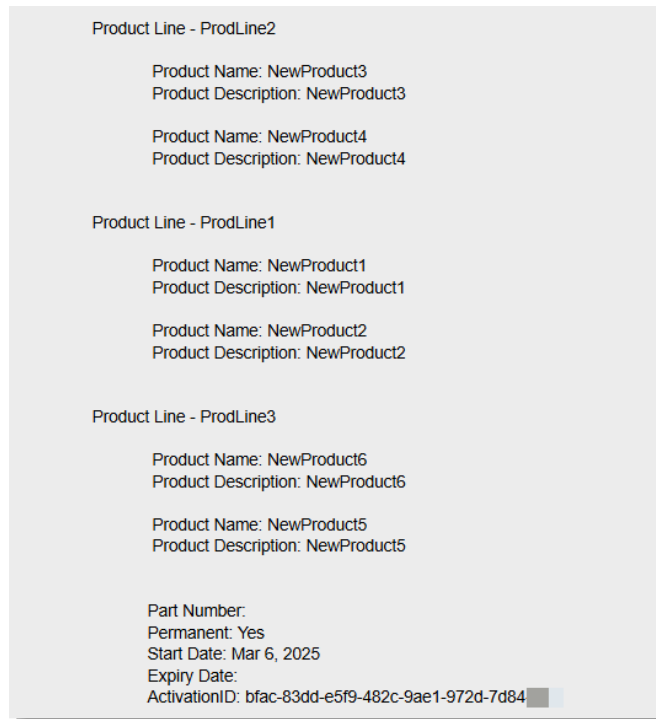


Figure 33: Entitlement email using the `[[FOR-EACH tag="EntitledProductLine"]]` merge tag

Configuration Option Unselected, Iterating Products

When the configuration option **Allow grouping of product information based on product line in entitlement email template** is unselected, the merge tag `[[FOR-EACH tag="EntitledProduct"]]` iterates through products and includes product line information. Below is some sample code and an example of a resulting Entitlement email.

```
[[FOR-EACH TAG="Entitlement" child-only="true"]]
  [[FOR-EACH TAG="EntitlementLineItem"]]
    [[IF TAG="LicenseGenerator" VALUE="demo"]]
      [[FOR-EACH tag="EntitledProduct"]]
        Product Name: [[Name]]
        Product Description: [[Description]]
        Product Line: [[ProductLine]]
      [[END FOR-EACH]]
      Part Number: [[PartNumber]]
      Permanent: [[Permanent]]
      Start Date: [[StartDate]]
      Expiry Date: [[ExpirationDate]]
      ActivationID: [[ActivationID]]
    [[END IF]]
  [[END FOR-EACH]]
[[END FOR-EACH]]
```

A resulting Entitlement email might look like this:

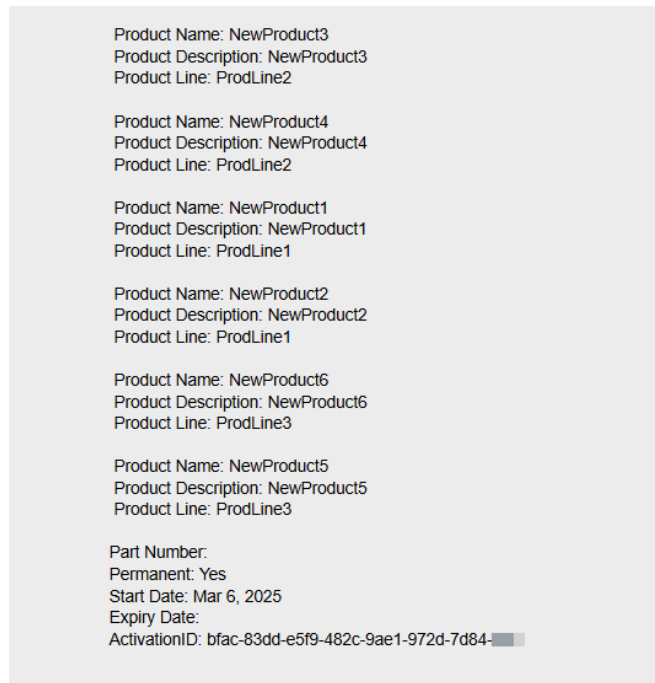


Figure 34: Entitlement email using the `[[FOR-EACH tag="EntitledProduct"]]` merge tag

New “Features” Column on List Entitlements Page

(Case 02982636, SWM-25094)

In the Producer Portal and the End-User Portal, the **List Entitlements** page can display an additional **Features** column, which would show the name and the version of the feature that is associated with a product. If a product includes more than one feature, a **more...** link is displayed. Pointing to the link lists all features that are linked to the product.

This enhancement makes it easier for producers and their customers who might be more familiar with feature names than product names to identify and manage the features associated with a product.

Displaying the Features Column

This enhancement is disabled by default. Producers who would like the **Features** column to be displayed should send a request to Reverera support. Reverera strongly recommends that producers ensure that displaying the **Features** column does not interfere with the way they currently use the **List Entitlements** page.

Type	Activation ID	Entitlement ID	Sold to	Product	Features	Available quantity	Total quantity	Expiration	Order ID	License model	Maintenance
☐	ACT-35b5-f520-926f	sc-c695-f534-886f	sb_acc (sb_acc) Type: End Customer	p1-test Version 1.0, Qty/Copy 1	f1-test 1.0 more	5	5	PERMANENT		concurrent-LM	
☐	4877-21f4-8fef-4493-9aa1-a573-d86c	9426-fd23-560c-4b1a-8946-5ca0-d611	sb_acc (sb_acc) Type: End Customer	p1-metered Version 1.0, Qty/Copy 1	f1-metered 1.0	5	5	PERMANENT		meteredd LM	
☐	994b-a938-71c6-44bf-a169-2e03-a48f	Ent_Fea	Account_69546 (Account_69546) Type: End Customer	charan Version 1.0, Qty/Copy 1	f1 1.0 more	60	60	PERMANENT		Embedded Counted	
☐	charans	charan	test2 (test2) Type: End Customer	charan Version 1.0, Qty/Copy 1	f1 1.0 more	84	100	PERMANENT		Embedded Counted	
☐	8352-5768-9a5e-45cd-9c14-5dc2-975f-b73	5b95-912a-0b4b-462a-85bf-0ef4-40b0	UNKNOWN_ORG Type: Information Not Available	autoprodv Version 1.0, Qty/Copy 1	E2E_Concurrent_f1 1.0	100	100	Sep 30, 2024		LM_AutoProvision	

Figure 35: The **List Entitlements** page with the **Features** column displaying feature information in the Producer Portal

Type	Activation ID	Entitlement ID	Sold to	Product	Version	Features	Available quantity	Total quantity	Expiration	Order ID	Order line number	Maintenance
☐	ACT-35b5-f520-926f	sc-c695-f534-886f	sb_acc (sb_acc) Type: End Customer	p1-test	Version 1.0	f1-test 1.0 more	5	5	PERMANENT			
☐	4877-21f4-8fef-4493-9aa1-a573-d86c	9426-fd23-560c-4b1a-8946-5ca0-d611	sb_acc (sb_acc) Type: End Customer	p1-metered	Version 1.0	f1-metered 1.0	5	5	PERMANENT			
☐	994b-a938-71c6-44bf-a169-2e03-a48f	Ent_Fea	Account_69546 (Account_69546) Type: End Customer	charan	Version 1.0	f1 1.0 more	60	60	PERMANENT			
☐	charans	charan	test2 (test2) Type: End Customer	charan	Version 1.0	f1 1.0 more	84	100	PERMANENT			
☐	d692-b967-4474-4587-866d-5128-b2ba	m14_ent_01	ACMES (Acme Software CorporationS) Type: End Customer	m14_prod_01	Version 1	1Feature-Test_144253669 6 2.0	10	10	PERMANENT			

Figure 36: The **List Entitlements** page with the **Features** column displaying feature information in the End-User Portal

User Experience Enhancements in 2025.04

The following user experience enhancement was added in the 2025.04 release.

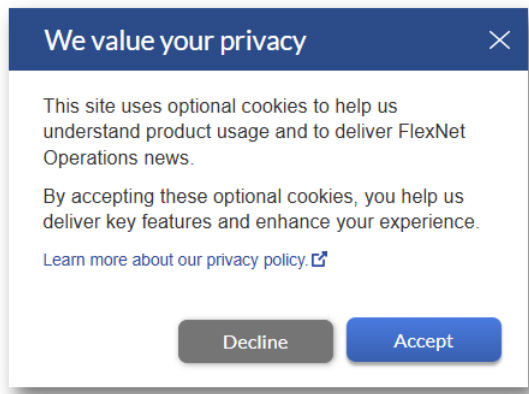
- **New In-App Messaging Functionality**
- **Improved Transaction Visibility in Producer Portal**

- [Updated Localizations of Field Labels on List Entitlements Page in End-User Portal](#)
- [Changes Around Security Question Now Localized](#)
- [New Endpoint for Displaying Date of Next Database Refresh](#)
- [Easier Login to Revenera Registry](#)

New In-App Messaging Functionality

We are introducing a new capability in the FlexNet Operations Producer Portal, to help us modernize in-app messaging, streamline product on-boarding, and understand product usage. The main difference you should notice is improved messaging about FlexNet Operations maintenance, and new features being released.

However, the utility requires the use of optional cookies, and so upon logging into FlexNet Operations Producer Portal for the first time after this release, a pop-up will prompt your producer users to accept the cookie policy to enable the utility. (Until now, only essential cookies have been used in FlexNet Operations, which is why this is the first time we have introduced a cookie opt-out dialog. This dialog will only affect optional cookies for in-app messaging and product usage.)



Refer to the [FAQs](#) article if you have additional questions.



Note - This change will not affect the End-User Portal.

Improved Transaction Visibility in Producer Portal

(SWM-24573, SWM-24815, SWM-24816, SWM-24820)

Producers can now view all transactions performed on a device—whether initiated via web services or in the Producer Portal or End-User Portal—on the **Search Transactions** page in the Producer Portal (under **System > Transaction History**). There are four exceptions to the webservice-based transactions reported:

- Move device from one account to another
- Return device when it is no longer in use
- Any changes initiated using `generateCapabilityResponse`
- Any requests to generate a clone detection report

These transactions will be added during the coming releases in Q2 this year.

Previously, only transactions performed through the Producer Portal or the End-User Portal interface were tracked in the Transaction History.

This enhancement provides a comprehensive audit trail, enabling better tracking of past actions for compliance and troubleshooting purposes.

For more details, see the following sections:

- [Tracked Operations](#)
- [Use Case Example](#)
- [Viewing Transaction Details](#)

Tracked Operations

Transactions are tracked for standalone devices, Cloud Licensing Service instances and local license servers. The following table lists the operations of the ManageDeviceService web service that are now tracked:

Transaction	Web Service Operation	Event Type	Description
Creating a device	createDeviceRequest	CREATE	Tracks all successful and failed attempts to create a device.
Linking entitlement line items to a device	linkAddonLineItems	UPDATE	Tracks transactions where an entitlement line item was linked to a device, or where a metered license was removed from a device.
Incrementing entitlement line items to devices	IncrementAddonLineItems	UPDATE	Tracks transactions where an entitlement line item was incremented on a device.
Updating a device	updateDevice	UPDATE	Tracks transactions where a device was updated.

Use Case Example

Your company provides industrial software licenses via FlexNet Operations. A customer complains that their software has stopped working. Your support team checks the Transaction History in the Producer Portal and sees that your customer's own IT administrator mistakenly deactivated the license. Instead of escalating the issue, you can immediately guide them to reactivate their license, saving time and frustration.

Viewing Transaction Details

To view transaction details for a device, click **System > Transaction History**. On the **Search Transaction History** page, select the entity type **Device**, and enter any other search criteria. The **Search Transactions: Results** page displays a list of transactions. Click the **View details** link to see the details of a particular transaction. The details will look similar to this:

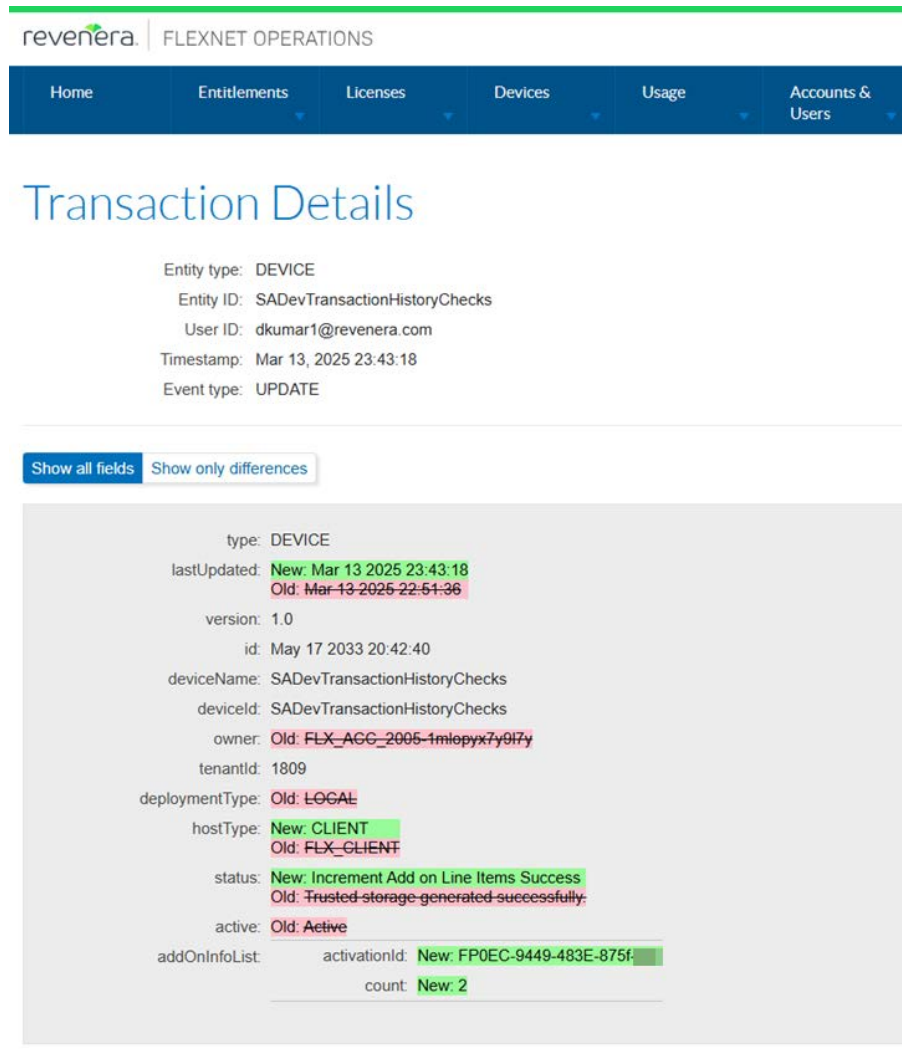


Figure 37: The **Transaction Details** page showing updates made to a device

Updated Localizations of Field Labels on List Entitlements Page in End-User Portal

(SWM-22971)

In the End-User Portal, on the **List Entitlements** page, two of the labels in the Search drop-down menu had been changed in the 2024.10 release to more meaningful names as well as to match the equivalent labels used in the Producer Portal (see [User Experience Enhancements in 2024.10](#)). The new labels are **Sold-to Account Name** and **Sold-To Account ID**.

To provide the same enhanced user experience for users of the localized interface of FlexNet Operations, the translations of these two labels have now been updated.

The following screenshot shows the **List Entitlements** page in the End-User Portal:

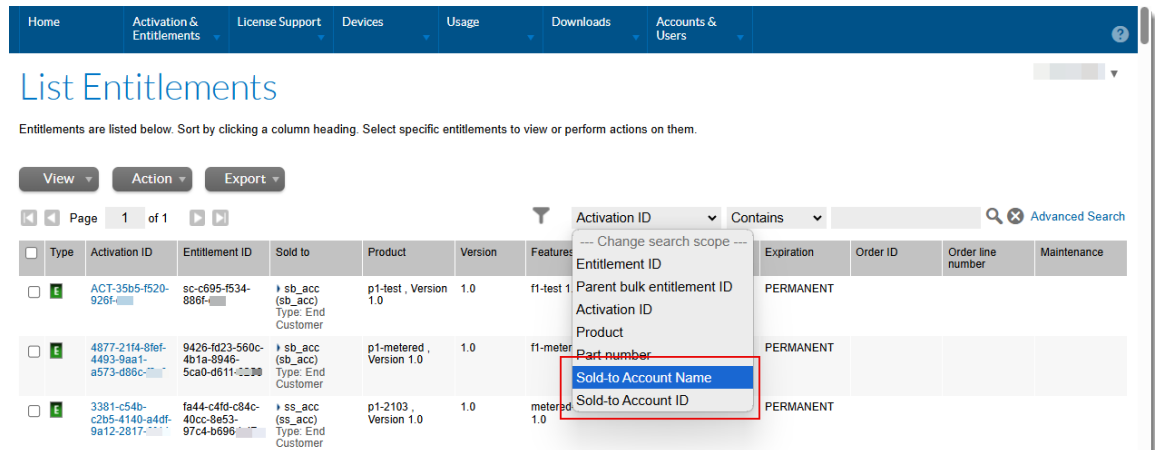


Figure 38: The **Sold-to Account Name** and **Sold-to Account ID** fields on the **List Entitlements** page in the End-User Portal now have more meaningful translations.

Changes Around Security Question Now Localized

(SWM-25768)

In the 2025.03 release, the dialog for the security question was updated for existing users who had selected “Where were you when you first heard about 9/11?” as their security question (see [Removed Security Question](#)). The warning text that was added in 2025.03 has now been translated and will appear in the localized versions of the End-User Portal.

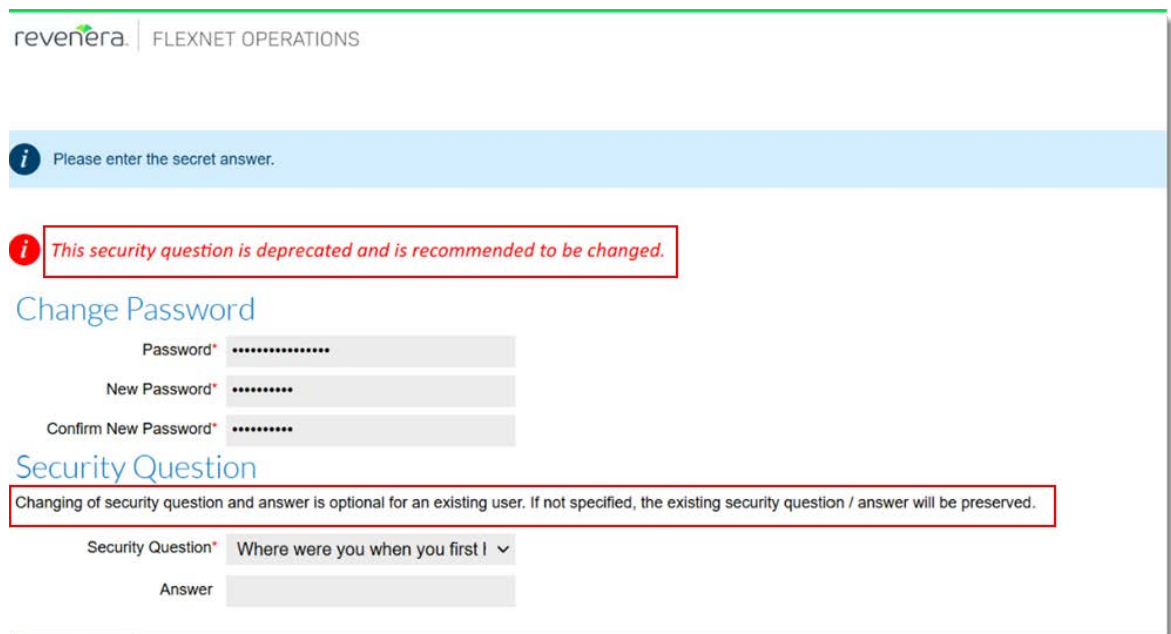


Figure 39: This screenshot shows the (English) text that has been localized in the 2025.04 release.

New Endpoint for Displaying Date of Next Database Refresh

(Case 02912896, SWM-23482)

For Production Copy Service (PCS) environments, a new REST endpoint **/flexnet/operations/rest/pcsRefreshDate** has been introduced. When called, it returns the next production copy refresh date. The refresh date could be displayed in a banner like this:

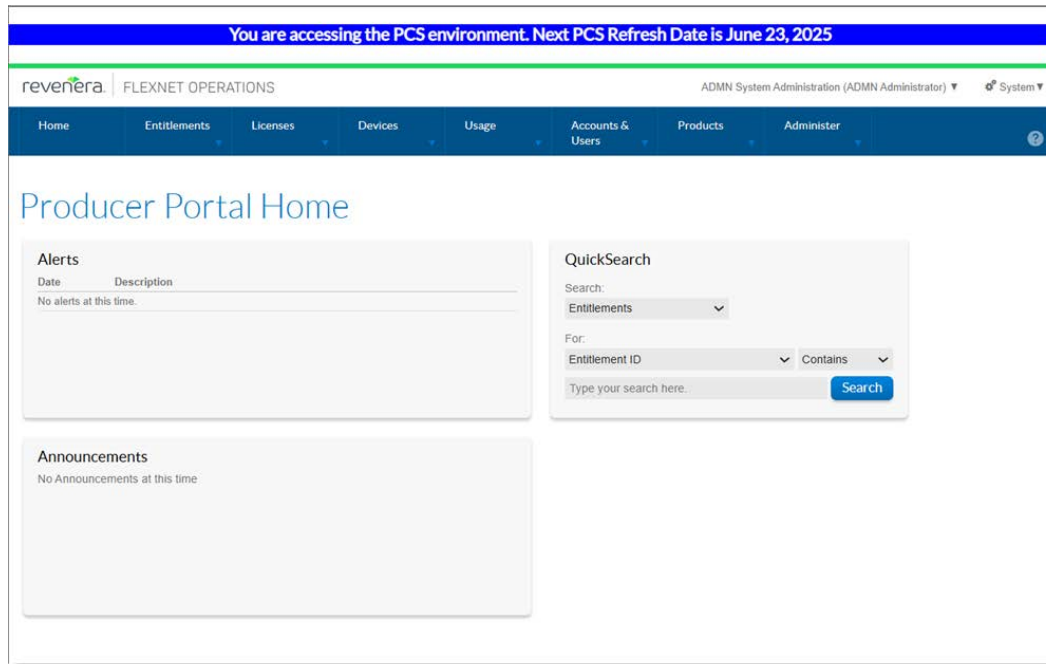


Figure 40: An example of a banner displaying the PCS refresh date.

Knowing the database refresh date can provide guidance when the PCS environment is used as a staging instance before deploying changes to the production environment.

Easier Login to Revenera Registry

(SWM-20249)

An end customer wanting to pull a container image must first log into the registry. However, this presumes that the customer already knows the registry URL, which is not always the case.

To make this process easier for customers, on the **Downloads** page, the End-User Portal now contains a new button, **Container Registry login**, which will copy the Docker login command with the appropriate tenant URL to the clipboard. Customers can then easily paste the command into the Docker command-line interface to log into the registry.

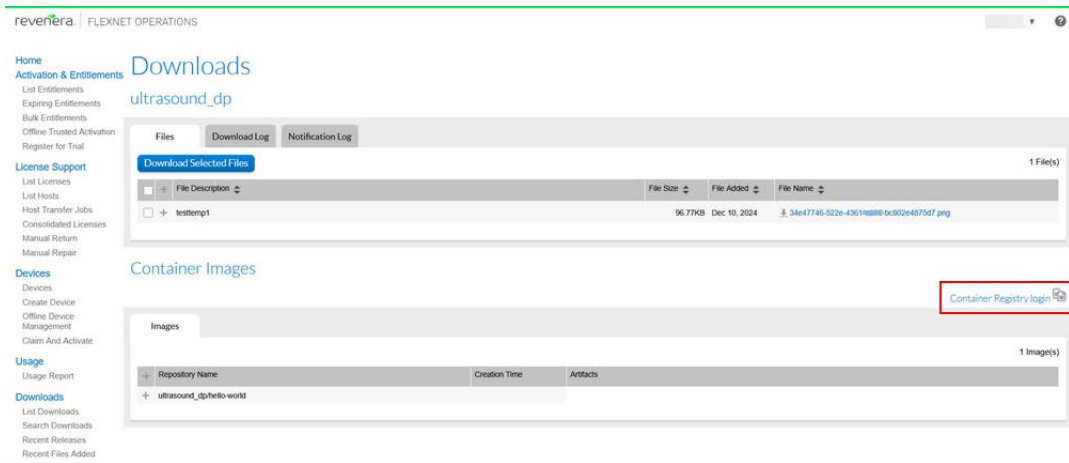


Figure 41: The **Downloads** page of the End-User Portal with the new **Container Registry login** button.

SOAP and REST Web Services Enhancements in 2025.04

The following enhancement was added to the SOAP and REST Web Services module in the 2025.04 release.

New Entitlement Management REST API

This release introduces the beta version of the first REST API in a series of new APIs aimed at simplifying integration with low-code platforms and improving overall performance. The first API, for creating a simple entitlement, is designed to streamline the process of creating entitlements in FlexNet Operations through an easy-to-use RESTful interface, making it ideal for low-code users. The new APIs are also optimized for performance, ensuring faster response times and improved scalability.

To authenticate requests to the Entitlement Management API, users must provide an authentication token, which can be obtained using the REST web service **access-token-controller** or using the **Manage Access Tokens** page in the Producer Portal.

For details about the new REST API, see the section **RESTful Services for Entitlement Management** in the Web Services Integration Guide.

Features and Enhancements in 2025.03

Features and enhancements were added to the following areas of FlexNet Operations in the 2025.03 release:

- [Entitlement Management Enhancements in 2025.03](#)
- [User Experience Enhancements in 2025.03](#)

Entitlement Management Enhancements in 2025.03

The following enhancements to entitlement management were added in the 2025.03 release.

- Inactive Line Items Can Now Be Changed to Draft to Allow Editing
- Warning Message When Activating Licenses for Upgrade Line Items
- Confirmation Message Displayed After Merging Entitlements
- Visibility of Product Lines Created by Other Producer Users
- Changing the Prefix for Trial Activation IDs

Inactive Line Items Can Now Be Changed to Draft to Allow Editing

(Case 02552542, SWM-25355)

The 2025.03 release now allows producers to change the state of line items from Inactive to Draft. Previously, to edit an inactive line item, its status had to be changed to Deployed. This enhancement means that producers can edit or re-use previously inactive line items, without the need to deploy these line items first.

Example: A producer wants to update the part number for a certain product. The products are already associated with entitlements, some of which are inactive. The producer can now change a line item's status from Inactive to Draft, which then makes the line item editable. The producer can update the part number and then change the status back to Inactive.

The following screenshots show the **Line Items** section, where a line item has its status changed to Inactive, and the **Customers to Licenses** page with the subsequent success message.

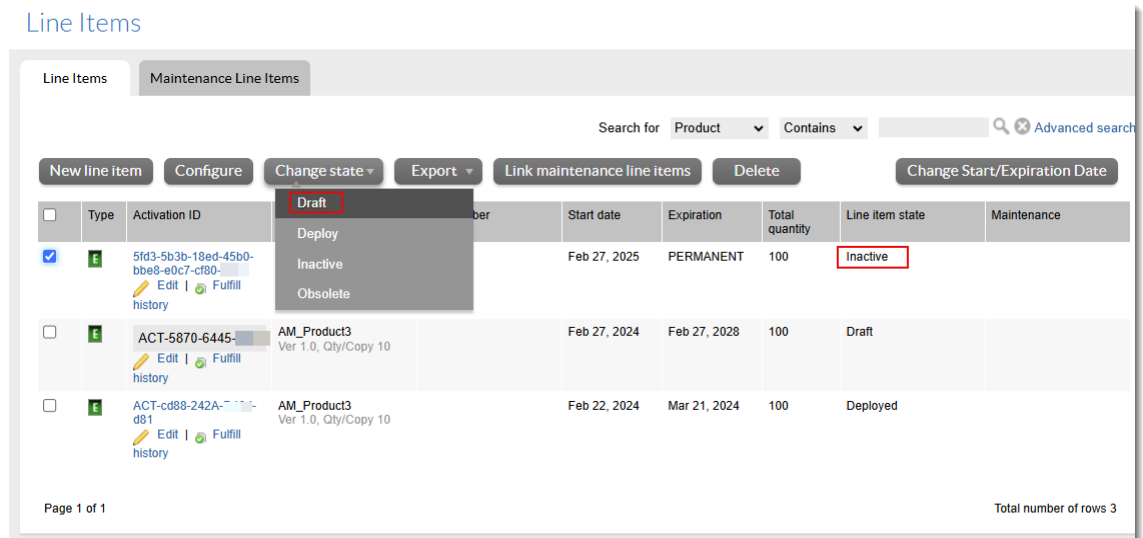


Figure 42: Changing the line item status from Inactive to Draft in the **Line Items** section of the **Entitle Customers to Licenses** page

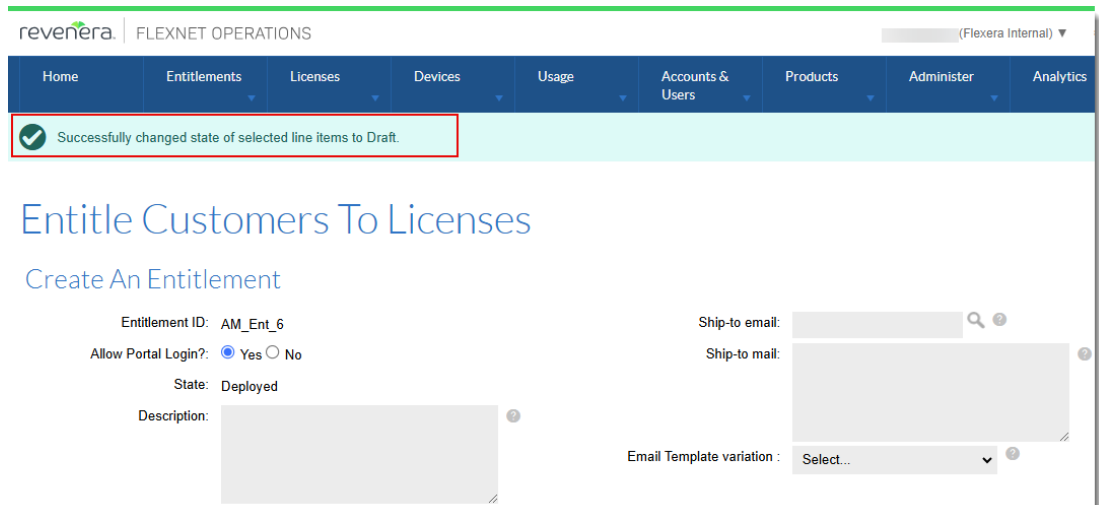


Figure 43: The **Entitle Customers to Licenses** page shows a confirmation message after changing the line item's status.

Warning Message When Activating Licenses for Upgrade Line Items

(Case 02733304, SWM-19396)

In FlexNet Operations, when a base line item is associated with an upgrade line item, and the upgrade line item is activated, the quantity is consumed on the parent line. Returning the upgrade line item will not free up the count on the base line item. This is to prevent license leakage.

However, customers who are not aware of this behavior might be frustrated. Imagine the following scenario: a customer upgrades to a new product version and activates the upgraded version. For some reason, the upgraded version of the product does not live up to their expectations. When the customer tries to return the upgraded line item, in the hope of being able to use the previous product, they find that this is no longer possible. They now have no choice but continue using the upgrade that they do not like.

To help users make conscious decisions when upgrading, FlexNet Operations now includes a new configuration option **Display warning message when activating upgrade line item linked to parent line item** (under **System > Configure > FlexNet Operations > General Options**). The option controls the behavior of the Producer Portal and the End-User Portal:

- When the configuration option is *selected*, and a user tries to activate an upgrade line item that is linked to the parent line item (by navigating to the **List Entitlements** page, selecting an entitlement and clicking **Activate**), the following warning is displayed:

“If you activate the selected upgrade line item, you will no longer be able to activate previous versions of that line item. Are you sure you want to activate the upgrade line item?”

This message makes it clear to the user that they cannot revert back to the previous version after the upgrade.

- When the configuration option is *unselected*, and a user tries to activate an upgrade line item that is linked to the parent line item, no warning message is displayed. The **Generate Licenses** page opens for activating the license. (This is the current behaviour.)

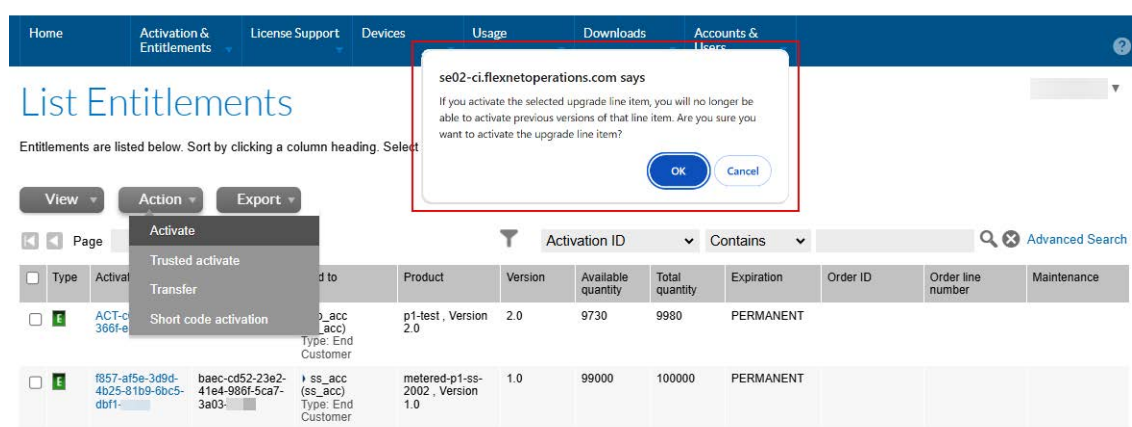


Figure 44: Example of the warning message in the End-User Portal

Confirmation Message Displayed After Merging Entitlements

(Case 02974495, SWM-24762)

Previously, when a user initiated a merge operation by selecting the assets to be merged and clicking **Complete** on the **List Entitlements By Order | Merge Entitlements** page, the Producer Portal redirected the user to the **List Entitlements By Order** page which then listed the merged assets. This behavior was confusing, because the user had no immediate way of knowing whether the merge was successful.

To improve the user experience, the **List Entitlements By Order | Merge Entitlements** page now displays a confirmation message which indicates whether the merge was successful. In the event of an error, a meaningful error message is displayed.

The following screenshot shows the **List Entitlements By Order | Merge Entitlements** page with a confirmation message for a successful merge operation:

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Home Entitlements Licenses Devices Usage Accounts & Users Products

i Selected assets have been merged successfully from src-SWM-25268-acc to target-acc-SWM-25268 account.

List Entitlements By Order

Merge Entitlements

Please select the Source Account, Target Account, and the assets to be merged. Click Complete to merge the assets to the Target Account.

Source Account:* src-SWM-25268-acc

Target Account:* target-acc-SWM-25268

Assets to be Merged* ☒ Entitlements and Fulfillments ☒ Users

Complete Cancel

Figure 45: The confirmation message after a merge on the **List Entitlements By Order | Merge Entitlements** page

After the merge, users can navigate away from the page using the options in the top navigation bar.

This enhancement applies to operations for merging entitlements and fulfillments and for merging users.

Visibility of Product Lines Created by Other Producer Users

(Case 02774078, 02848224; SWM-20402)

In previous FlexNet Operations releases, a producer user could only access the product lines they created. However, this could create issues when system administrators left and new staff had to take over their responsibility for product lines. Product lines that were created by the previous administrator were not visible to the new administrators, making product line management very difficult.

The 2025.03 therefore introduces a new configuration option **Enable visibility of all product lines for system administrators** (under **System > Configure > FlexNet Operations > General Options**). If enabled, the **Product Lines** section on the **Create a User** and **Create an Account** pages in the Producer Portal displays all product lines, including those created by other producer users. The **Link product lines** button in that section, which was previously limited to product lines created by the logged-in user, now allows linking of product lines created by other producer users.

By default, the **Enable visibility of all product lines for system administrators** option is disabled.

Note that the configuration option **Enable Product Lines for Products, Users, and Accounts** (also under **System > Configure > FlexNet Operations > General Options**) must be selected for the new configuration option **Enable visibility of all product lines for system administrators** to be effective.

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FLEXNET OPERATIONS

Anne Moses (Flexera Internal)

System

Home

Entitlements

Licenses

Devices

Usage

Accounts & Users

Products

Administer

Analytics

Create A User

User Details

End-User Portal Access?: ☒ Yes ☐ No

Time Zone: (GMT -8.0) Pacific Time

Status: Active

Shared Login: ☐ Yes ☒ No

Contact Details

Street:

First Name:

Product Lines

Link product lines

Remove product lines

☐ Name

Description

☐ ALL

ALL

Accounts

Link accounts

Remove

☐ Account ID

Account Name

Role

Expiry date

No accounts linked to this user.

Figure 46: When **Enable Product Lines for Products, Users, and Accounts** is selected, the **Product Lines** section on the **Create a User** page (pictured) and the **Create an Account** page displays all product lines, including those created by other producer users.

Select Product Lines For The User

Search for

Name

Equals

☐ Name

Description

☐ Uncategorized Products

Uncategorized Products.

☐ ALL

ALL.

☐ FlexNet Licensing

FlexNet Licensing

☐ AS-Edited-name

Created via template

☐ ProdCategory

☐ ProdCatWithReqAttr

☐ Hardware

☐ Software

☐ InternetSecuritySoftware

InternetSecuritySoftware

☐ Example Product Line

Example Product Line

Figure 47: Clicking **Link product lines** in the **Product Lines** section on the **Create a User** page and the **Create an Account** page displays the **Select Product Lines for the User** window, where producer users can link or remove a product line, including those product lines created by other producer users.

Changing the Prefix for Trial Activation IDs

(Case 02461881, SWM-21200)

The 2025.03 release allows producers to customize the short string that is used as a prefix for trial activation IDs.

Previously, customization was not allowed. When a trial entitlement was created, its activation ID had the fixed prefix “Act”, which was a limitation when the entitlement needed to match or validate old or existing licenses and made trial conversions or renewals difficult. A configurable prefix gives producers the flexibility to match the activation IDs in these various phases.

Producers wanting to change the prefix can do so in the configuration option **Custom pre-fix string from Trial License Activation ID** (under **System > Configure > FlexNet Operations > General Options**).

User Experience Enhancements in 2025.03

The following user experience enhancement was added in the 2025.03 release.

Removed Security Question

(Case 02954443, SWM-24008)

When users set or change their password for the Producer Portal or the End-User Portal, they need to select a security question as an additional authentication factor. In previous releases, the list of security questions included the question “Where were you when you first heard about 9/11?”. In the 2025.03 release, inclusion of this question has changed because it could be distressing for some users:

- **New users and users who did not use 9/11 as a security question** will no longer see the question “Where were you when you first heard about 9/11?” when they are setting their password and security question.
- **Existing users who had already selected “Where were you when you first heard about 9/11?”** as their security question are not forced to select a different security question. Instead, they will see a warning message, “This security question is deprecated and is recommended to be changed.” This approach gives existing users time to select a new security question. Once they selected a different security question, the message is no longer displayed.

The following screenshot shows the screen presented to existing users:

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Please enter the secret answer.

This security question is deprecated and is recommended to be changed.

Change Password

Password*

New Password*

Confirm New Password*

Security Question

Changing of security question and answer is optional for an existing user. If not specified, the existing security question / answer will be preserved.

Security Question*

Answer

Figure 48: Existing users are informed that the 9/11 security question is deprecated.

These changes apply to the Producer Portal and End-User Portal.

Features and Enhancements in 2025.02

Features and enhancements were added to the following areas of FlexNet Operations in the 2025.02 release:

- [Data Analytics Enhancements in 2025.02](#)
- [Entitlement Management Enhancements in 2025.02](#)
- [SOAP and REST Web Services Enhancements in 2025.02](#)

Data Analytics Enhancements in 2025.02

The following enhancement was made to the Analytics functionality in 2025.02.

New Report to Analyze Denied Access Requests

The License Server Usage report (under **Analytics > License Server Usage**) has been expanded to include a new chart, called **Denials Distribution**, covering denials data. To reflect this new capability, the License Server Usage report has been renamed to License Server Usage and Denials.

The License Server Usage and Denials report analyzes the denials made by a Cloud Licensing Service (CLS) instance, Dynamic Monetization instance or a local license server and provides insights into causes and patterns where requests to access licensed software were rejected. The report reveals details about:

- **Denial reasons**—Reasons are grouped by the denial status code, along with the percentage distribution per denial code. Identifying the most common reasons for denials—such as, for

example, insufficient feature counts or elastic tokens, expired features, features not available due to rule rejection—allows producers and their customer to take corrective action.

- **Denial patterns**—Discover which accounts are experiencing the highest number of denials. This information helps producers uncover key accounts that might not be sufficiently provisioned with licenses to meet their day-to-day operational requirements.
- **Denial trends**—Patterns in denied requests can help producers forecast future demand for certain features, products, or license types. This insight supports better resource allocation, product development, and infrastructure planning to meet anticipated growth.

Clicking the **Denials Distribution** chart opens a new page which shows the Denials Distribution pie chart, the Denials by Account bar chart, and the Denials Summary table (described below).



Note ▪ For usage data from a local license server to be available in the Data Warehouse, the following policy settings must be configured:

- **usageService.sync.enabled**—Must be set to **true**.
- **usageService.sync.url**—Must point to the usage service URL, which is

```
https://<siteId>.compliance.flexnetoperations.com/usage/api/1.0/sync
```


where <siteId> is replaced with the specific site ID supplied by Revenera, for example:

```
https://flex1234.compliance.flexnetoperations.com/usage/api/1.0/sync
```
- **licensing.trackDeniedRequests**—Must be set to **true** if the usage data should also include denied request information. To disable tracking of denied requests, **licensing.trackDeniedRequests** set to **false**.

For more information, see the topic “Pushing Usage Data to the Data Warehouse” in the FlexNet Embedded License Server Producer Guide (available from the [Product and License Center](#)).

Denials Distribution Pie Chart

The Denials Distribution pie chart visualizes the different types of denials along with their percentage distribution, providing insights into denial patterns. Hover over a pie slice to see the following information:

- Denial status code and description
- Absolute number of denials
- Percentage of denials

You can filter the pie chart using the widget filter at the top, to focus on specific denial status codes, accounts, or other criteria.

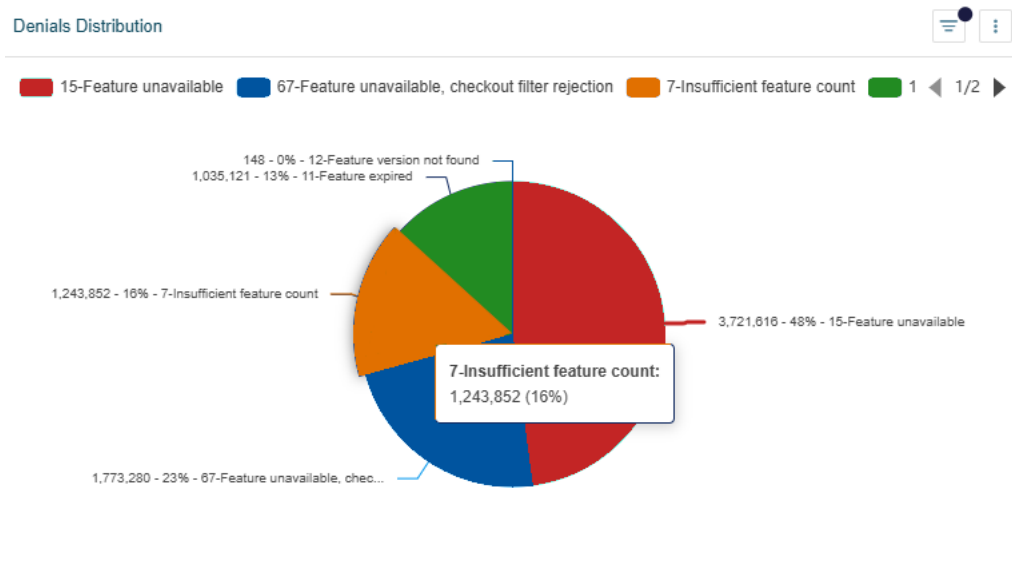


Figure 49: Example of a Denials Distribution pie chart

Denials by Account Bar Chart

The Denials by Account bar chart shows the denials segmented by account, offering valuable insights into the key accounts that should be prioritized for revenue generation opportunities.

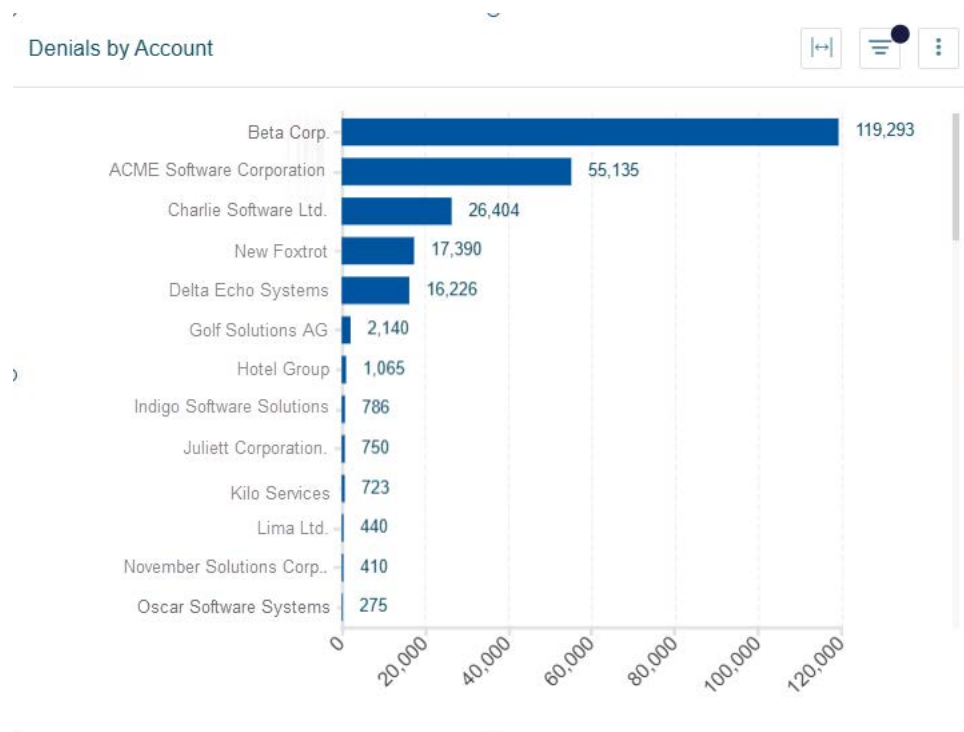


Figure 50: Example of a Denials by Account bar chart

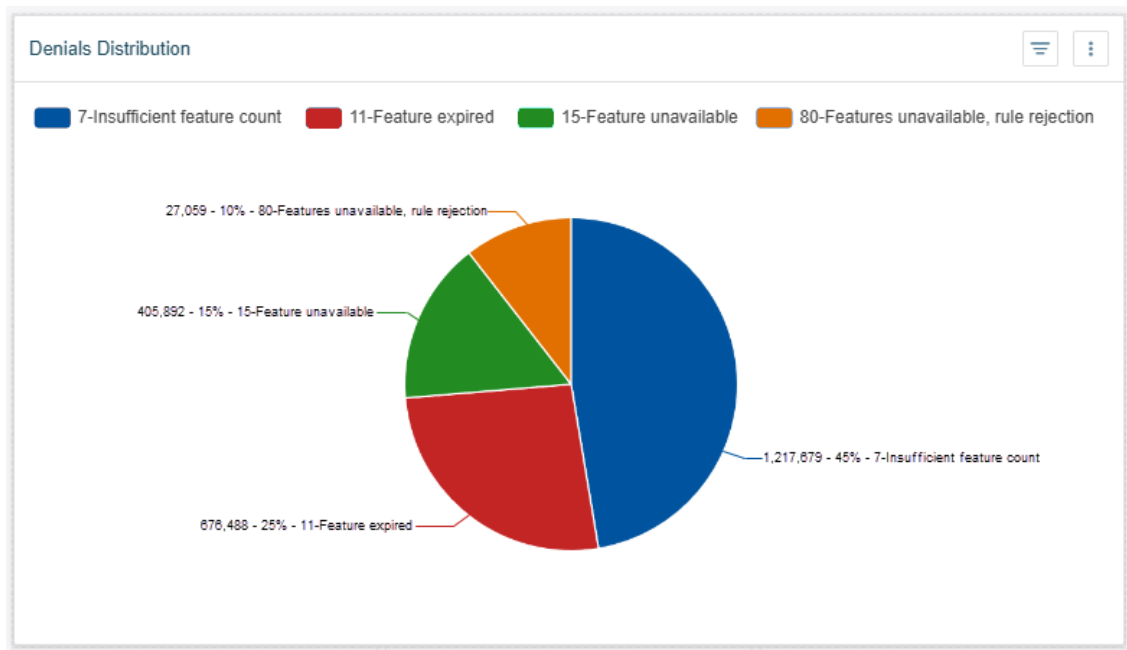
Denials Summary Table

The Denials Summary table offers detailed insights into denials, showing data such as users/clients, features and timestamp, enabling data-driven conversations with customers.

Insights Gained From the Denials Distribution Report

The following example illustrates how producers might benefit from the insights provided by the Denials Distribution report.

Let's assume that your Software as a Service (SaaS) company offers subscription-based software licenses, but users frequently face license checkout denials when trying to access the software. You generate a Denials Distribution report to analyze the issue. The screenshot below shows the findings of the report:



The report lists the most common denial reasons, which enables you to take action and turn the denials into upsell or cross-sell opportunities. This in turn also reduces the impact on your customer support team.

Table 7 ▪ Example Findings of a Denials Distribution report

Denial Reason	Denial Rate (%)	Insights	Opportunity
Insufficient feature count available Insufficient elastic tokens available (Dynamic Monetization)	45%	The main reason for denials is that demand exceeds the current subscription plan.	Upselling additional licenses: Sales, the Renewals team or Customer Success Managers can leverage the report's insights to discuss upgrading the subscription plan, introduce dynamic license allocation or on-demand scaling with the customer.
Feature expired No valid active line items (Dynamic Monetization)	25%	Loss of revenue due to missed renewals.	Increase renewal opportunities: Engage the Renewals team to lead data-driven conversation with the customer. Send proactive renewal reminders, set up automated renewal reminders, or enable auto-renewal.
Feature unavailable Item not found in any effective rate table (Dynamic Monetization)	15%	User attempting to access a premium product not included as part of the current subscription plan.	The Sales or Renewals team can leverage this opportunity for cross-selling or upselling.

Table 7 ▪ Example Findings of a Denials Distribution report

Denial Reason	Denial Rate (%)	Insights	Opportunity
Feature unavailable, checkout filter rejection	10%	Users unable to activate software due to rules of access or feature selectors.	Opportunity to upsell additional licenses: The denials might indicate additional demand for a feature. Customer Success Managers could share this report with the enterprise license administrator to enable them to: ● Identify users/clients unable to activate software due to certain restrictions, but who require access to features. ● Adjust feature selectors and rules of access to allocate licenses to users/client/departments that derive the most value from the software.
Feature unavailable, rule rejection			

Entitlement Management Enhancements in 2025.02

The following enhancements to entitlement management were added in the 2025.02 release.

- [Error Message When Activating Obsolete/Inactive Line Items](#)
- [Overhaul of the “Show Line Items with Zero Copies by Default” Configuration Option](#)

Error Message When Activating Obsolete/Inactive Line Items

(Case 02954549, SWM-23892)

Previously, attempting to activate an obsolete or inactive line item on a device using a FlexNet Embedded toolkit failed as expected, but no error message was displayed. This lack of error messages while activating obsolete or inactive line items made it difficult for producers to notice and resolve errors in a timely manner.

From the 2025.02 release onwards, attempting to activate an obsolete or inactive line item will result in an error being displayed. For example, the response might include a status like this:

```
Status=("Activation ID not permitted": 5f4d-123e-a456-7894-b123-66f4-88h7-56f3)
```

This screenshot shows a sample response:

```

C:\Work\SWM\flexnet_client-x64_windows-2024.11.0\flexnet_client-x64_windows-2024.11.0\bin\tools>caprequestutil.bat -id silo2cs.bin -host
-idtype -rightsId 871a-fe91-ece8-47f2-bee1-7f7f-6d1c- 5 https://flexera1000-ci.compliance.flexnetoperations.com/deviceservices -full
"x-publisherid" 1000

Response has valid back-office signature
MessageType="Capability_response"
FneVersion=(Major=2024 Minor=6 Maint=0)
ProtocolVersion=6
ServerIDType=String
ServerID=BACK_OFFICE
SourceIds=BACK_OFFICE
Lifetime=0
ResponseTime="Dec 31, 2024 1:00:30 PM"
LastResponseTimeMilliseconds=0
RequestHostID=
RequestHostIDType=
MachineType=Unknown
Status=("Activation ID not permitted": 871a-fe91-ece8-47f2-bee1-7f7f-6d1c-)
Signature=(
  SignatureType=RSA
  SignatureSource=Back-office
  SignatureStrength=0
  SignatureValue=

```

This enhancement enables producers to identify the cause of the error and take corrective action, if required.

Overhaul of the “Show Line Items with Zero Copies by Default” Configuration Option

(Case 02876825, SWM-24336)

In previous releases, the configuration option **Show Line Items with Zero Copies by Default** (under **System > Configure > FlexNet Operations > General Options**) did not work as expected. It has now undergone an overhaul to fix functional issues and broaden its scope:

- In previous releases, even if the configuration option was disabled, the **List Entitlements** in the End-User Portal page erroneously displayed line items with zero copies remaining. This has now been resolved.
- The previous description of the configuration was misleading, because it referred to the page names “Activatable Items” and “Entitlements” that do not exist in the End-User Portal. The wording has now been corrected to refer to the “List Entitlements” page.
- The scope of the configuration option has been broadened. Whereas previously it controlled only which entitlements would be displayed on the **List Entitlements** page in the End-User Portal, it now also controls which entitlements are displayed on the **List Entitlements** page of the Producer Portal. To reflect this, the description has been changed as follows: “Select to show line items with zero copies by default in the **List Entitlements** page in the Producer Portal and End-User Portal.”

This enhancement gives producers and their end-users greater control over the content displayed on the **List Entitlements** pages.

How the option affects which line items are displayed in 2025.02

When **Show Line Items with Zero Copies by Default** is selected, the Producer Portal and the End-User Portal show line items with zero copies remaining on their **List Entitlements** pages. The **List Entitlements** page is available in the Producer Portal under **Entitlements > List Entitlements** and in the End-User Portal under **Activation & Entitlements > List Entitlements**.

When **Show Line Items with Zero Copies by Default** is unselected (the default), line items with zero copies are hidden on the **List Entitlements** pages.



Note - A known issue exists; see [SWM-24042: Input Sanitization Disabled](#).

SOAP and REST Web Services Enhancements in 2025.02

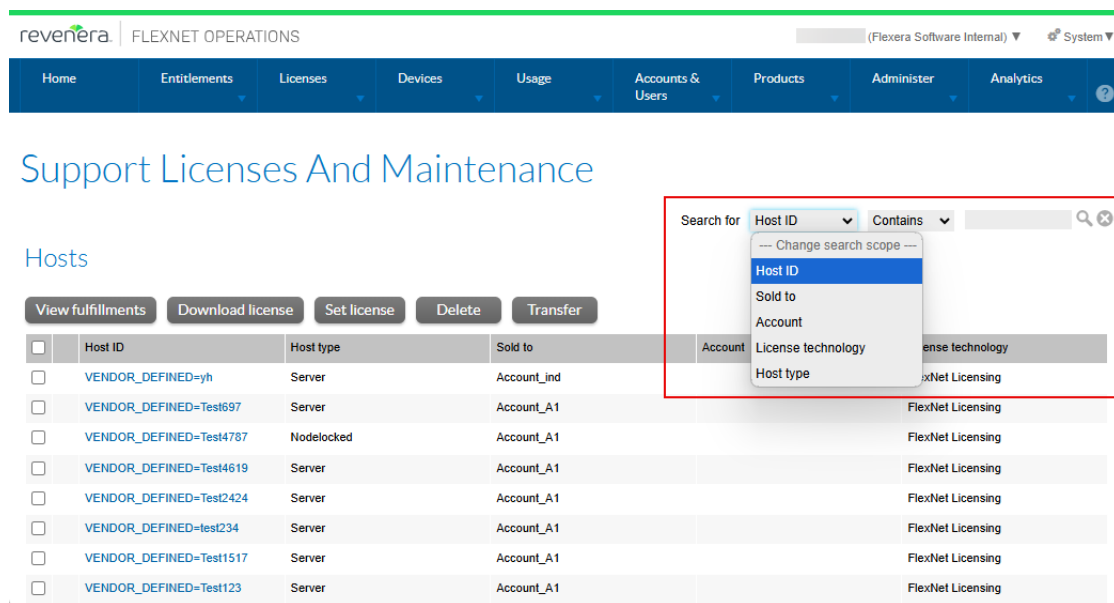
The following enhancements were added to the SOAP and REST Web Services module in the 2025.02 release.

- [Returning Fulfillment and License Information for Non-Embedded Technologies Using Web Services](#)
- [New Operation for Getting Host Count in License Service SOAP Web Service](#)

Returning Fulfillment and License Information for Non-Embedded Technologies Using Web Services

(Case 02370066, SWM-22714)

In the Producer Portal, producers can list fulfillment or license information for non-embedded licensing technology (such as FlexNet Publisher) for specific hostids on the **Support Licenses and Maintenance** page (under **Licenses > Hosts**). The following screenshot shows the **Support Licenses and Maintenance** page along with the search options:



To provide the same functionality using web services, the 2025.02 release now introduces version 2 of the LicenseService SOAP web service. This enhancement enables producers to do the following:

- Collect all hostids to provide a list of current hostids for new activations
- Collect all active fulfillments for a dedicated server in preparation to create "emergency" licenses for that server
- Collect fulfillment and license information in preparation to rehost a server

Implementation of getHostQuery

Version 2 of the LicenseService SOAP web service includes the new operation **getHostQuery**. The following XML fragment illustrates a **getHostQuery** message:

```
<operation name="getHostQuery">
```

```

    <input message="tns:getHostQueryRequest"/>
    <output message="tns:getHostQueryResponse"/>
  </operation>

```

The operation **getHostQuery** extracts the same information as that available on the **Support Licenses and Maintenance** page: Host ID, Sold To, Account, License Technology, and Host Type. In addition, producers can filter for hosts that have active or inactive fulfillments.



Tip ▪ For pagination, producers can use the **getHostCount** operation to determine the number of hosts and specify that number in the *batchSize* parameter (see [New Operation for Getting Host Count in License Service SOAP Web Service](#)).

The following snippet shows sample XML code:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:urn="urn:v2.webservices.operations.flexnet.com">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:getHostQueryRequest>
      <!--Optional:-->
      <urn:queryParams>
        <!--Optional:-->
        <urn:hostId>
          <urn:value>?</urn:value>
          <urn:searchType>?</urn:searchType>
        </urn:hostId>
        <!--Optional:-->
        <urn:soldTo>
          <urn:value>?</urn:value>
          <urn:searchType>?</urn:searchType>
        </urn:soldTo>
        <!--Optional:-->
        <urn:licenseTechnology>
          <urn:value>?</urn:value>
          <urn:searchType>?</urn:searchType>
        </urn:licenseTechnology>
        <!--Optional:-->
        <urn:hostType>
          <urn:value>?</urn:value>
          <urn:searchType>?</urn:searchType>
        </urn:hostType>
        <!--Optional:-->
        <urn:account>
          <urn:value>?</urn:value>
          <urn:searchType>?</urn:searchType>
        </urn:account>
        <!--Optional:-->
        <urn:fulfillmentState>
          <urn:value>?</urn:value>
          <urn:searchType>?</urn:searchType>
        </urn:fulfillmentState>
      </urn:queryParams>
      <urn:pageNumber>?</urn:pageNumber>
      <urn:batchSize>?</urn:batchSize>
    </urn:getHostQueryRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

```
</soapenv:Body>
</soapenv:Envelope>
```

For detailed information about the changes made to the LicenseFulfillmentService.wsdl and the .xsd files that it references, see the [Change Log for 2025.02](#).

New Operation for Getting Host Count in License Service SOAP Web Service

(Related to Case 02370066, SWM-25245)

Along with the **getHostQuery** operation (see [Returning Fulfillment and License Information for Non-Embedded Technologies Using Web Services](#)), version 2 of the LicenseService SOAP web service also introduces the **getHostCount** operation. **getHostCount** returns the number of hosts that match specified criteria.

This operation is equivalent to displaying the number of hosts that fit certain criteria by filtering hosts using the **Search for** option in the Producer Portal in the **Support Licenses and Maintenance** page:

The screenshot displays the 'Support Licenses And Maintenance' page in the FlexNet Operations interface. At the top, there's a navigation bar with tabs like Home, Entitlements, Licenses, Devices, Usage, Accounts & Users, Products, Administer, and Analytics. Below this, the page title 'Support Licenses And Maintenance' is visible. A search bar on the right is configured with 'Host ID' as the search criteria and 'VENDOR_DEFINED' as the search text. Below the search bar, there are buttons for 'View fulfillments', 'Download license', 'Set license', 'Delete', and 'Transfer'. The main content is a table with the following columns: Host ID, Host type, Sold to, Account, and License technology. The table contains 7 rows of data, all with 'VENDOR_DEFINED' as the Host ID and 'FlexNet Licensing' as the License technology. The Host IDs are: Test697, Test4787, Test4619, Test2424, Test234, Test1517, and Test1123. The Host types are: Server, Nodelocked, Server, Server, Server, Server, and Server. The Sold to and Account columns all show 'Account_A1'. At the bottom of the page, there's a footer showing 'Page 1 of 1' and 'Total number of rows 7'.

Host ID	Host type	Sold to	Account	License technology
VENDOR_DEFINED-Test697	Server	Account_A1		FlexNet Licensing
VENDOR_DEFINED-Test4787	Nodelocked	Account_A1		FlexNet Licensing
VENDOR_DEFINED-Test4619	Server	Account_A1		FlexNet Licensing
VENDOR_DEFINED-Test2424	Server	Account_A1		FlexNet Licensing
VENDOR_DEFINED-Test234	Server	Account_A1		FlexNet Licensing
VENDOR_DEFINED-Test1517	Server	Account_A1		FlexNet Licensing
VENDOR_DEFINED-Test1123	Server	Account_A1		FlexNet Licensing

Implementation of getHostCount

The following XML fragment illustrates a **getHostCount** message:

```
<operation name="getHostCount">
  <input message="tns:getHostCountRequest"/>
  <output message="tns:getHostCountResponse"/>
</operation>
```

The operation **getHostCount** returns the number of hosts that fit specified criteria. The following search criteria are available: Host ID, Sold To, Account, License Technology, and Host Type.



Tip • The returned number can be used as the batch size input for **getHostQuery** (see [Returning Fulfillment and License Information for Non-Embedded Technologies Using Web Services](#)).

The following snippet shows sample XML code:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:urn="urn:v2.webservices.operations.flexnet.com">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:getHostCountRequest>
      <!--Optional:-->
      <urn:queryParams>
        <!--Optional:-->
        <urn:hostId>
          <urn:value>?</urn:value>
          <urn:searchType>?</urn:searchType>
        </urn:hostId>
        <!--Optional:-->
        <urn:soldTo>
          <urn:value>?</urn:value>
          <urn:searchType>?</urn:searchType>
        </urn:soldTo>
        <!--Optional:-->
        <urn:licenseTechnology>
          <urn:value>?</urn:value>
          <urn:searchType>?</urn:searchType>
        </urn:licenseTechnology>
        <!--Optional:-->
        <urn:hostType>
          <urn:value>?</urn:value>
          <urn:searchType>?</urn:searchType>
        </urn:hostType>
        <!--Optional:-->
        <urn:account>
          <urn:value>?</urn:value>
          <urn:searchType>?</urn:searchType>
        </urn:account>
        <!--Optional:-->
        <urn:fulfillmentState>
          <urn:value>?</urn:value>
          <urn:searchType>?</urn:searchType>
        </urn:fulfillmentState>
      </urn:queryParams>
    </urn:getHostCountRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

For detailed information about the changes made to the LicenseFulfillmentService.wsdl and the .xsd files that it references, see the [Change Log for 2025.02](#).

Features and Enhancements in 2025.01

Features and enhancements were added to the following areas of FlexNet Operations in the 2025.01 release:

- [Entitlement Management Enhancements in 2025.01](#)
- [User Experience Enhancements in 2025.01](#)
- [Device Management Enhancements in 2025.01](#)
- [Dynamic Monetization Enhancements in 2025.01](#)

Entitlement Management Enhancements in 2025.01

The following enhancement to entitlement management was added in the 2025.01 release.

Instance ID Merge Tag Now Available in Entitlement Email Template

(Case 02875263, SWM-21918)

Previously, the merge tag `[[DEFAULT_GLS_INSTANCE_ID]]` (available in the Entitlement email template) could only be included above the email text, but not in the email within `LicenseModel` or `EntitlementLineItem` tags.

In the 2025.01 release, the merge tag `[[DEFAULT_GLS_INSTANCE_ID]]` can be nested inside the `LicenseModel` or `EntitlementLineItem` tag, and producers can now insert the Cloud Licensing Service (CLS) instance ID into the table in an Entitlement email. (This allows an Entitlement email, for example, to contain a table with rows for each line item, and to specify the CLS ID in the rows related to the CLS.)

The following sample shows how the merge tag `[[DEFAULT_GLS_INSTANCE_ID]]` is nested inside the `EntitlementLineItem` tag:

```
[[FOR-EACH TAG="EntitlementLineItem"]]  
  [[DEFAULT_GLS_INSTANCE_ID]]  
[[END FOR-EACH]]
```

User Experience Enhancements in 2025.01

The following user experience enhancement was added in the 2025.01 release.

New Configuration Hides Menu Options for Making Entities Obsolete

(Case 02902521, SWM-22852)

In FlexNet Operations, the status "Obsolete" is typically used to remove entities (for example, products, features, feature bundles, devices, suites, and license models) from use permanently. This status helps distinguish outdated or superseded entities from those currently in use, without completely deleting them from the system.

However, producers need to use great care when setting an entity's status to Obsolete, because the status Obsolete is permanent and cannot be reverted. The 2025.01 release therefore introduces the configuration option **Allow state change of entities to obsolete** (under **System > Configure > FlexNet**

Operations > General Options), which enables producers to hide the **Obsolete** or **Make Obsolete** menu options in the Producer Portal. Specifically, when the option is unselected, the **Obsolete** or **Make Obsolete** menu options are no longer displayed in the following locations in the Producer Portal:

- **Entitlements > List Entitlements By Order > Change State** menu
- **Entitlements > Create > Line Items** and **Maintenance Line Items** tabs > **Change State** menu
- **Devices > Devices** > clicking the hyperlinked device name opens the **Device** or **View Server** page > **Edit** menu
- **Products > Products > Change State** menu
- **Products > Features > Change State** menu
- **Products > Feature Bundles > Change State** menu
- **Products > Suites > Change State** menu
- **Administer > License Models > Change State** menu

Unselecting **Allow state change of entities to obsolete** prevents users from—accidentally or intentionally—changing the state of products, features, feature bundles, devices, suites, license models, and similar entities, to Obsolete using the user interface. However, entities can still have their status changed to Obsolete using an API web service call.

By default, **Allow state change of entities to obsolete** is selected.



Note - Operations that involve changing an entity's state to Obsolete as part of a transfer or upgrade process are not impacted.

Device Management Enhancements in 2025.01

The following enhancement to device management was added in the 2025.01 release:

Reassigning Returned Standalone Devices

(Case 01948947, SWM-20276)

This release includes an enhancement for returned standalone devices.

Returning a device is intended for devices that no longer receive capability responses or license files, or servers that no longer serve devices or communicate with the FlexNet Operations back office. Previously, returning a device was an irreversible action. When a device was returned, it was permanently disassociated from its account.

The 2025.01 release introduces the ability to reassign returned standalone devices to an account and reactivate such devices. This enables producers to take returned standalone devices back into service.

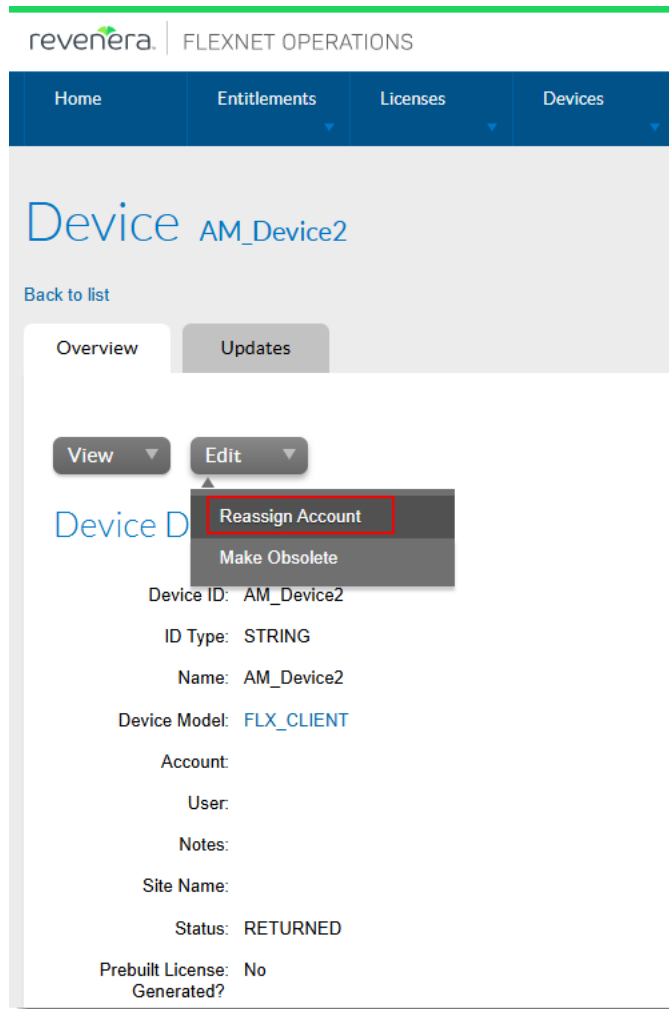
Reassigning a Device Using the Producer Portal

Producers can reassign a returned device to an account using the menu item **Reassign Account** from the **Edit** menu on the **Device** page. (To access the **Device** page for a returned device, click **Devices > Devices** > click a hyperlinked device name.)



Note - Returned devices have a status of Returned and are by default not listed on the **Devices** page (under **Devices** > **Devices**) even when searched. To display returned devices on the **Devices** page, select the option **Inactive** in the filter above the devices list.

The following screenshot shows the new menu item **Reassign Account** on the **Device** page:



Clicking **Reassign Account** opens the **Assign account** page, where you can select a new account for the device.

After a standalone device has been reassigned to an account, the device status is changed to Active. The device can now have entitlements mapped to it.

Reassigning a Standalone Device Using Web Services

Returned standalone devices can also be reassigned using the **updateDevice** operation of the ManageDeviceService web service.

The following code snippet illustrates how to use the **updateDevice** operation:

```
<urn:updateDeviceRequest>
  <urn:device>
    <urn:deviceIdentifier>
      <urn:deviceType>CLIENT</urn:deviceType>
      <!-- Note: This is the device to be updated, currently in RETURNED state -->
      <urn:deviceId>Test123</urn:deviceId>
      <urn:deviceIdType>STRING</urn:deviceIdType>
      <urn:publisherName>fnepublisher</urn:publisherName>
    </urn:deviceIdentifier>
    <urn:updateChannelPartners>
      <urn:channelPartners>
        <urn:channelPartner>
          <!-- Note: Only END CUSTOMER is supported as per existing functionality-->
          <urn:tierName>bo.constants.partner.tiernames.endcustomer</urn:tierName>
          <!-- Note: This is the account to which the device is to be reassigned -->
          <urn:accountUnit>
```

```

        <urn:primaryKeys>
            <urn:name>MyAccount</urn:name>
        </urn:primaryKeys>
    </urn:accountUnit>
</urn:channelPartner>
</urn:channelPartners>
<!-- Note: Only REPLACE is supported as per existing functionality-->
    <urn:opType>REPLACE</urn:opType>
</urn:updateChannelPartners>
</urn:device>
</urn:updateDeviceRequest>

```

There have been no changes to any of the .wsdl or .xsd files for SOAP services.

Reassigning a Standalone Device Using the End-User Portal

To use a returned standalone device in the End-User Portal, the device must first be reassigned to an account using the Producer Portal. Once it has been assigned to an account, an end user can claim the device in the End-User Portal by clicking **Devices > Claim and Activate**.



Note - The **Claim and Activate** option only appears in the **Devices** menu of the End-User Portal for users with roles specifically granted the End-User Portal permissions **Claim Device and Activate** and **Generate Licenses**.

Dynamic Monetization Enhancements in 2025.01

The following enhancement for Dynamic Monetization was added in the 2025.01 release.

Allowing Overdrafts in Elastic Access

(SWM-23936)

When end customers run out of Elastic Access tokens before the expiration of a line item, producers may want to allow them to continue using capabilities and to consume tokens until a new purchase of tokens can be arranged. To enable end customers to consume tokens beyond their entitled count, Elastic Access now allows an overdraft limit to be provided on line items. The recorded usage data provides a basis for subsequent billing.

In the Producer Portal, Elastic Access license models can be set up using a new overdraft attribute. Producers can specify the overdraft using one of the following settings:

- **Not used**
- **Unlimited**
- **Specify # now**
- **Specify % now**
- **Specify % at entitlement time**

The default setting is **Not used**, and a zero overdraft limit will be enforced if this setting is chosen.

When an overdraft is set, line items using this license model will be configured with the value, allowing end customers to consume tokens from the line item up to the overdraft limit above the entitled quantity.

If **Unlimited** is selected, then an “infinite” overdraft limit is used, and end customers can consume tokens without constraint.

In the Producer Portal, producers set the overdraft for Elastic Access license models on the **Package Products - License Models | Create A License Model** page (under **Administer** > **License Models** > **Create new license model**), as shown here:

Package Products - License Models

Create A License Model

Choose if this license model is counted.

Name:

Description:

State: Draft

Expiration: ☒ None
☐ Permanent
☐ Expiring

Type: ☐ Embedded
☐ Non Embedded
☒ Dynamic Monetization

Elastic: ☒ Yes
☐ No

Attributes: Fill in the attributes for this license model.

Auto Provision: Yes

Rate Table Series: Specify Value At Entitlement Time

Overdraft: Not Used

Overdraft options: Not Used, Unlimited, Specify # Now, Specify % Now, Specify % At Entitlement Time

Producers who use a back office other than FlexNet Operations can set the overdraft directly in the **/line-items** API, using the attributes parameter and the `overdraftLimit` and `overdraftType` properties.

To allow an unlimited overdraft, set `overdraftType` to `Unlimited`.

To allow a limited overdraft, set `overdraftType` to `Number` and set `overdraftLimit` to the number of tokens that can be consumed from the line item above the entitled quantity.

The following snippet shows a sample request for a limited overdraft:

```
{
  "activationId": "string",
  "state": "string",
  "quantity": 1,
  "start": 0,
  "end": 0,
  "attributes": {
    "elastic": false,
    "rateTableSeries": "",
    "overdraftLimit": 100,
    "overdraftType": "Number"
  }
}
```

For details about this API, see the Dynamic Monetization API documentation, topic [Map a line item to an instance \(https://fnoapi-dynamicmonetization.redoc.ly/#operation/addActivation\)](https://fnoapi-dynamicmonetization.redoc.ly/#operation/addActivation).

The overdraft details are recorded in the Usage Metrics table in the Snowflake Data Warehouse (field `OVERDRAFT_COUNT`) and can also be returned using the Data Access API (field `overdraftCount`). For more information, see the [Data Access API and Data Share Entity Relationship Details](#).

System Requirements

Detailed system requirements for FlexNet Operations include the following.

Requirement	Description
Web browsers	● Microsoft Edge ● Mozilla Firefox 75.0 ● Google Chrome 80.0.3987.163
FlexNet licensing module	● FlexNet Publisher Toolkit 11.12.0 or later ● FlexNet Embedded Toolkit 2015 R2 or later  Note - FlexNet Operations supports these FlexNet Embedded host ID types: <code>ETHERNET</code>, <code>INTERNET</code>, <code>INTERNET_6</code>, <code>FLEXID9</code>, <code>FLEXID10</code>, <code>STRING</code>, <code>USER</code>, <code>VM_UUID</code>, <code>EXTENDED</code>, <code>PUBLISHER_DEFINED</code>, and <code>CONTAINER_ID</code>.

Requirement	Description
Vendor certificate generator	The current versions of the VCG kit are 12.11.0 and 16.2.2.0. These VCGs were tested with the following compilers: • Windows—Visual Studio 2010 Professional Edition • Linux—gcc 4.1.2 (RHEL 5.0) • Linux—gcc 4.4.4 (RHEL 6.0)  Note - 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.)
High Speed File Upload	If you intend to use the High Speed Upload option to upload files, the following plug-in is required: Aspera Connect 3.10.0 or later

Resolved Issues

The following sections describe the issues that have been resolved in the FlexNet Operations 2025 releases to date:

- [Issues Resolved in 2025.11](#)
- [Issues Resolved in 2025.10](#)
- [Issues Resolved in 2025.09](#)
- [Issues Resolved in 2025.08](#)
- [Issues Resolved in 2025.07](#)
- [Issues Resolved in 2025.06](#)
- [Issues Resolved in 2025.05](#)
- [Issues Resolved in 2025.04](#)
- [Issues Resolved in 2025.03](#)
- [Issues Resolved in 2025.02](#)
- [Issues Resolved in 2025.01](#)

Issues Resolved in 2025.11

Issues in the following areas were resolved in the FlexNet Operations 2025.11 release:

- [Account and User Management Issues Resolved in 2025.11](#)

- Device Management Issues Resolved in 2025.11
- Entitlement Management Issues Resolved in 2025.11
- Security Issues Resolved in 2025.11
- SOAP and REST Web Services Issues Resolved in 2025.11
- User Experience Issues Resolved in 2025.11

Account and User Management Issues Resolved in 2025.11

The following issue involving the management of accounts and users was resolved in the 2025.11 release.

Role Details Page in End-User Portal Now Loads Without Error

(SWM-29535)

Previously, clicking on any role link within the **Edit Account** or **Edit User** pages in the End-User Portal triggered an error message, preventing users from accessing role-specific information.

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Home Activation & Entitlements License Support Devices Usage Downloads Accounts & Users

Edit User

Edit or view the user details below. Click Save to update info.

User Info

Can this user log in to FlexNet Operations? ☐ Yes ☒ No

First Name*

Last Name*

Email Address*

Opt in to receive email ☐ Yes ☒ No

Expiring entitlements email ☐

Phone

Fax

Contact Info

Street

City

State/Province

Zip/Postal Code

Country

Locale

Accounts

Actions

Account ID	Account name	Role
☐ org123	org123	☐ Portal Admin Role ☒ Default Portal Role ☐ Role11 ☐ Role2901 ☐ EP_Permissions_Only ☐ View Licenses ☐ Write Access Role ☐ pprole

Figure 51: Clicking a role (highlighted in red) resulted in an error message.

This issue has now been resolved. Clicking a role link correctly opens the **Role Details** page, which displays the permissions associated with that role.

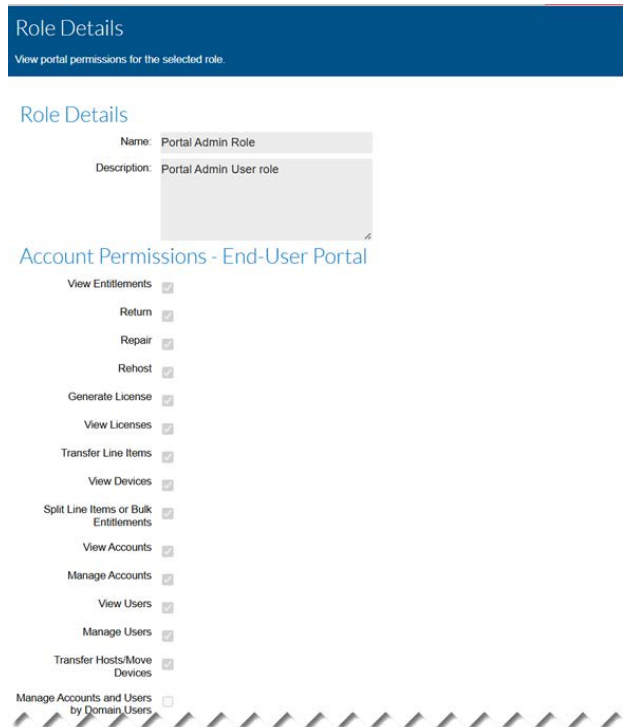


Figure 52: In 2025.11, clicking a role now opens the **Role Details** page.

This enhancement improves usability by allowing customers to easily view and understand the permissions tied to their roles, supporting better transparency and role management.

Device Management Issues Resolved in 2025.11

The following issue involving the management of devices was resolved in the 2025.11 release.

Fixed Label on Named License Pools Tab for Cloud License Server

(FNE-23801)

Previously, on the newly introduced **Named License Pools** tab (on the **Cloud License Server Details** page), the **Existing License Pools** subtab displayed the feature name next to the pool ID instead of the expected license pool name. This mislabeling has been fixed in the 2025.11 release:

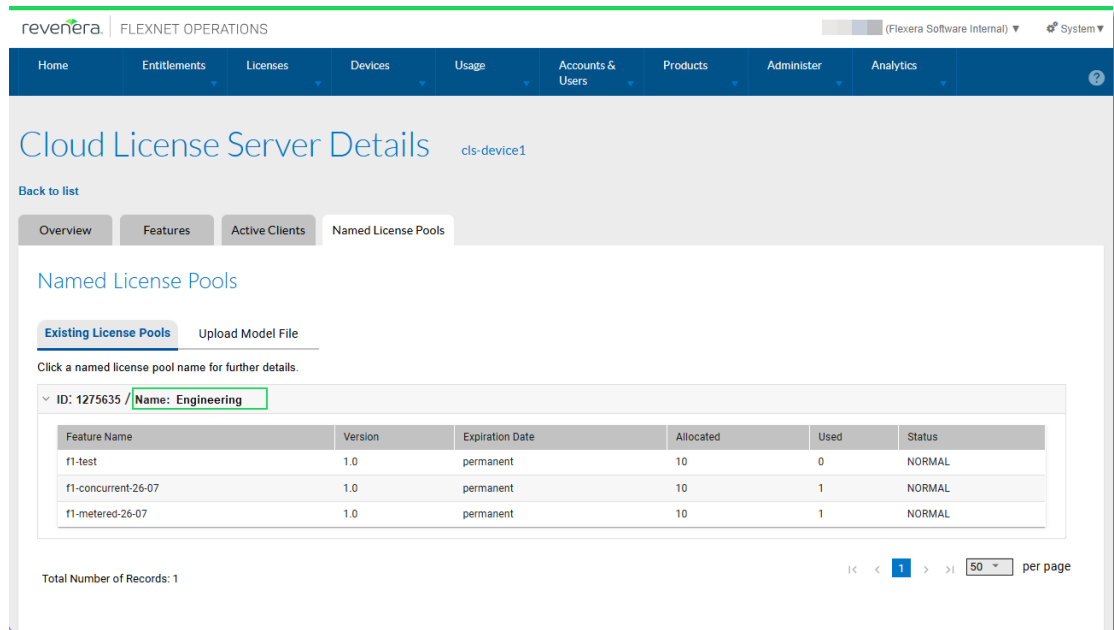


Figure 53: The list on the **Existing License Pools** subtab now correctly shows the license pool names.

Entitlement Management Issues Resolved in 2025.11

The following issue was resolved for entitlement management in the 2025.11 release.

Resolved Bulk Upgrade Failures with Custom License Generators

(Case 03036320, SWM-26777)

Bulk upgrade operations no longer fail when a custom license generator is used to generate the upgraded licenses.

Security Issues Resolved in 2025.11

The following issue related to FlexNet Operations security was addressed in the 2025.11 release.

Refined Access Control for Agreement Transactions

(SWM-30096)

The 2025.09 release addressed an access control vulnerability, where low-privilege users could access transaction details for agreements beyond their permission scope (see [Resolved Access Control Vulnerability for Agreements](#)). Essentially, permissions to view, update, download and search transaction details were restricted to high-privilege users. However, this approach inadvertently limited basic visibility for users with lower privileges.

To address this, the 2025.11 release introduces a refined access control model:

- Download and Update operations remain restricted to high-privilege users.

- View and Search operations are now permitted for low-privilege users, enabling them to locate and inspect transactions they are authorised to access, without compromising data security.

This change ensures that only high-privilege users can modify or extract transaction data, while still allowing basic visibility for low-privilege users. The update aligns with best practices for role-based access control and enhances usability without sacrificing security.

SOAP and REST Web Services Issues Resolved in 2025.11

The following issue related to FlexNet Operations Web Services was addressed in the 2025.11 release.

- [EntitlementOrderService No Longer Returning Error for accountUnitName Query](#)
- [Case Sensitivity in DownloadPackagingService Authentication](#)

EntitlementOrderService No Longer Returning Error for accountUnitName Query

(Case 03955183, SWM-29389)

In the 2025.10 release, a regression was identified in certain EntitlementOrderService operations (versions 1 through 7) where using the **accountUnitName** query parameter with the **EQUALS** operator could incorrectly trigger error 21073—"Count of Account names exceeded the limit of 10"—if the specified account name contained a space.

The following operations were impacted:

- **getActivatableItemCount**
- **getActivatableItemsQuery**
- **getEntitlementLineItemPropertiesQuery**

This issue has been resolved in the 2025.11 release.

To address the regression, versions 8 and 9 of EntitlementOrderService now use the newly introduced **accountUnitNameList** parameter, which accepts multiple account names. Customers can provide multiple account unit names using repeated `<urn:value>?</urn:value>` elements.

Example for Using accountUnitNameList

The following example code shows how to pass multiple account names.

```
<soapenv:Body>
  <urn:searchEntitlementLineItemPropertiesRequest>
    <urn:queryParams>
      <urn:accountUnitNameList>
        <!--1 or more repetitions:-->
        <urn:value>Road Runner Corporation</urn:value>
        <urn:value>Acme Corporation</urn:value>
        <urn:value>Wily Inc.</urn:value>
      </urn:accountUnitNameList>
    </urn:queryParams>
    ...
  </soapenv:Body>
```

For detailed information about the changes made to the EntitlementOrderService.wsdl and the .xsd files that it references, see the [Change Log for 2025.11](#).

Guidelines for Using **accountUnitName** and **accountUnitNameList** in 2025.11

- In versions 1 through 9, use the **accountUnitName** parameter for operations that require only a single account name. Account names may include spaces.
- In versions 8 and 9, use the **accountUnitNameList** parameter for operations that require multiple account names, for example, **getEntitlementLineItemPropertiesQuery**. Account names may include spaces.



Note - By default, you can pass up to ten account names, or as defined by the configuration option **Maximum number of Account names accepted to search for Entitlement Line Item Properties**.

Case Sensitivity in DownloadPackagingService Authentication

(Cases 03047680, 04214918; SWM-27781)

The DownloadPackagingService previously failed to authenticate users when the username contained uppercase letters, due to case-sensitive handling of credentials. This issue has now been resolved by updating the authentication logic to treat usernames in a case-insensitive manner, ensuring consistent and successful authentication regardless of letter casing.

User Experience Issues Resolved in 2025.11

The following issue related to user experience was addressed in the 2025.11 release.

Error Messages in End-User Portal's "Forgot Password" Workflow Now Correctly Localized

(SWM-26451)

Previously, error messages displayed during the End-User Portal's "Forgot Password" workflow were not correctly localized. Even when users selected a non-English language from the login page dropdown, error messages continued to appear in English.

The screenshot below illustrates the issue, showing an English error message displayed despite "German" being selected as locale:

! Wrong answer. Please match exactly what you entered when you set this question including the same spaces, capitals and punctuations.

Kennwortzurücksetzung

ForgotOrResetPassword - jan24

Geheimfrage In what city or town was your first job?

Antwort

Fortfahren

Abbrechen

Unlocalized error messages were displayed in the following scenarios:

- Entering an incorrect answer to the secret question.
- Leaving the **User ID** field blank.
- Providing an invalid user ID.

In the 2025.11 release, the login session now correctly applies the user's selected locale. All error messages within the "Forgot Password" flow are properly localized according to the chosen language on the login page.



Note • A related known issue remains open—see [SWM-26453: Secret Question on Forgot Password Page Not Localized](#). This affects the localisation of the secret question prompt and is being tracked separately.

Issues Resolved in 2025.10

Issues in the following areas were resolved in the FlexNet Operations 2025.10 release:

- [Account and User Management Issues Resolved in 2025.10](#)
- [Security Issues Resolved in 2025.10](#)

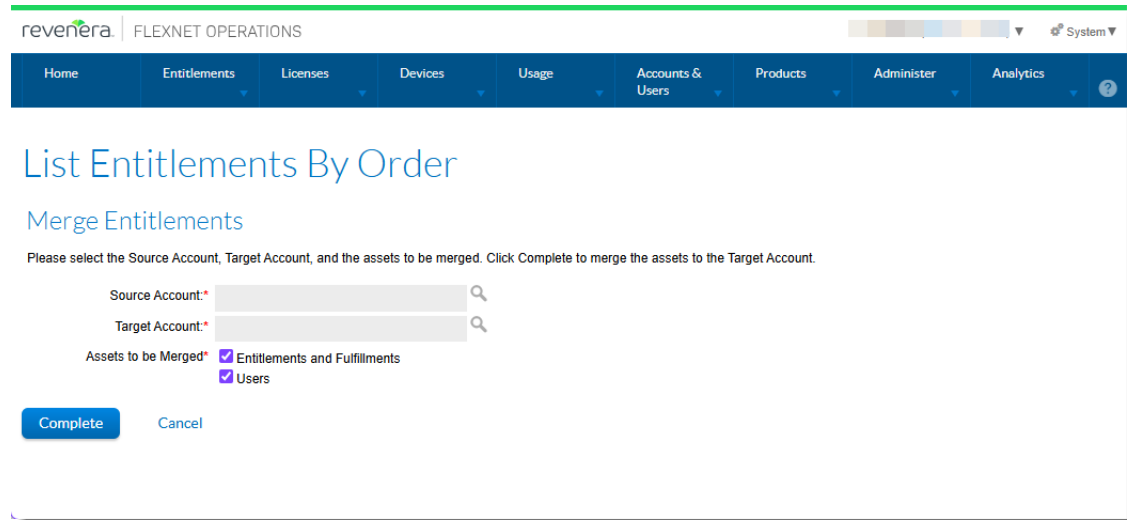
Account and User Management Issues Resolved in 2025.10

The following issue involving the management of accounts and users was resolved in the 2025.10 release.

Expanded Permissions for Merging Entitlements

(Case 03042145, SWM-26989)

In earlier releases, only users with the **View and Manage Users** permission could reassign users to other accounts. Users with only the **View and Manage Customer Users** permission were restricted, as the relevant **Users** checkbox on the **List Entitlements by Order | Merge Entitlements** page (under **Entitlements > Merge**) was disabled.



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Home Entitlements Licenses Devices Usage Accounts & Users Products Administer Analytics ?

List Entitlements By Order

Merge Entitlements

Please select the Source Account, Target Account, and the assets to be merged. Click Complete to merge the assets to the Target Account.

Source Account:*

Target Account:*

Assets to be Merged*

- ☒ Entitlements and Fulfillments
- ☒ Users

Complete Cancel

Figure 54: The **Merge Entitlements** page showing the active **Users** checkbox, available to users with the **View and Manage Customer Users** or **View and Manage Users** permission.

This restriction has been lifted in the 2025.10 release. Users who hold either the **View and Manage Customer Users** permission or the **View and Manage Users** permission—or both—can now reassign users to other accounts.

Security Issues Resolved in 2025.10

The following issues related to FlexNet Operations security were addressed in the 2025.10 release.

- [Secure Access to Swagger Documentation](#)
- [Phone Number Validation on Edit Profile Page](#)
- [Special Character Validation for Accounts & Users in End-User Portal](#)

Secure Access to Swagger Documentation

(SWM-28832)

As of the 2025.10 release, direct access to the Swagger documentation hosted at <https://<siteID>.flexnetoperations.com/flexnet/swagger-ui.html> is no longer permitted without authentication. Users attempting to access this page are now redirected to the FlexNet Operations login screen. Upon successful login, the Swagger interface is displayed. No additional permissions are required.

This change ensures that sensitive endpoints—such as token controllers—are only visible to authenticated FlexNet Operations users, strengthening platform security and protecting critical API resources.

Phone Number Validation on Edit Profile Page

(SWM-28833)

Previously, users could enter malformed or otherwise invalid values into the **Phone** field when editing their profile; such as non-numeric characters, incorrectly short or long numbers, or missing required digits.

The 2025.10 release introduces validation for the **Phone** field on the **Edit Profile** page (available by opening the User menu and clicking **My Profile**). The field now enforces acceptable phone-number formats, rejects inputs with invalid characters or incorrect length, and normalizes input where appropriate.

The screenshot shows the 'Edit Profile' page in the FlexNet Operations interface. The page has a header with the 'revenera.' logo and 'FLEXNET OPERATIONS' text. Below the header is a navigation bar with links: Home, Entitlements, Licenses, Devices, Usage, Accounts & Users, Products, Administer, and Analytics. The main content area is titled 'Edit Profile'. It contains several form fields: User name (with a dropdown), First name (Test), Last name (User), Email address (@revenera.com), Receive email messages (radio buttons for No and Yes), Password, New password, Confirm new password, Security question (In what city or town was your first job?), Security answer, Phone (07123 456789), Fax, Street, City, State/Province, Zip/Postal code, Country (United Kingdom), Locale (English), Timezone ((GMT 0.0) Coordinated Universal Time), Account (MYORG (MYORG)), and Shared Login (checkbox). The 'Phone' field and the 'Country' dropdown are highlighted with red rectangles, indicating that their input is validated.

Figure 55: User input in the fields **Phone** and **Country** is validated.

Validation Rules and Handling of Failed Validation

The following validation rules apply to the **Phone** field:

- **Allowed characters:** digits (0-9), hyphens (-), plus signs (+), and spaces.
- **Examples:** +91 9123456789, 07123 456789, +1-555-867-5309

- If a user attempts to save a profile with a phone number containing invalid characters, this error message will appear:

“Phone number must contain only digits and allowed symbols.”

Additionally, the phone number must correspond to the country selected in the **Country** dropdown:

- If the phone number does not match the selected country’s format or numbering plan, the following error message is displayed:
“Invalid phone number for the selected country.”
- **Example:** The phone number 07123 456789 with the country set to United States will be flagged as invalid for the selected country.

Special Character Validation for Accounts & Users in End-User Portal

(SWM-28834)

To improve data integrity and prevent malformed input, the 2025.10 release introduces validation for special characters in the input fields for all submenus under **Accounts & Users** in the End-User Portal. Fields now reject entries containing disallowed characters such as [:<>{}@;=, !/|?'"#\$%~^` '].

If a user attempts to enter invalid characters—for example, in the **First Name** field—they will receive the following error message:

“The field [First Name] contains the following illegal characters: [:<>{}@;=, !/|?'"#\$%~^` '].
Remove these characters before saving.”

No validation is currently applied to fields where special characters are typically expected, such as **Description**, **Address 1** and **Address 2**. Special character checks for these fields will be introduced in a future release.

This update helps ensure consistent and clean data entry across key user and account fields.

Issues Resolved in 2025.09

Issues in the following areas were resolved in the FlexNet Operations 2025.09 release:

- [Security Issues Resolved in 2025.09](#)
- [SOAP and REST Web Services Issues Resolved in 2025.09](#)
- [User Experience Issues Resolved in 2025.09](#)

Security Issues Resolved in 2025.09

The following issues related to FlexNet Operations security were addressed in the 2025.09 release.

- [HTML Injection Vulnerability Mitigation for FlexNet Operations Portals](#)
- [Resolved Access Control Vulnerability for Agreements](#)

HTML Injection Vulnerability Mitigation for FlexNet Operations Portals

(SWM-28029, SWM-28051, SWM-28025)

FlexNet Operations was found to be vulnerable to HTML injection across several input fields in both the End-User Portal and the Producer Portal. The affected areas included:

- Fields in the End-User Portal on the **Create Account** and **Edit Account** pages:
 - **Account ID**
 - **Account Name**
- Fields in the Producer Portal on the **Create Server Host Type** page and **Edit Server Host Type** pages:
 - **Server Host Type Name**
 - **Description**
 - **Name**
- Fields in the Producer Portal on the **Entitle Customers to Licenses** page:
 - **Description**
 - **Ship-to email**
 - **Ship-to mail**

These fields previously allowed injection of unauthorized HTML content, posing significant security risks. To mitigate these vulnerabilities, input sanitization and validation mechanisms have been implemented. The affected fields now properly handle and neutralize any malicious HTML content. If a user attempts to inject HTML, they will receive an “HTML tags not allowed” error message, as shown in the following screenshots:

The screenshot shows a web browser window with the URL `se02-ci.flexnetoperations.com/flexnet/operationsportal/createOrganization_SAVE.do`. The page title is "Edit Account" under the "FLEXNET OPERATIONS" header. A red error message banner at the top states: "[Incident# 0228-6390] HTML tags not allowed in account name or account ID fields." Below the banner, the "Edit Account" form is displayed. The "Account Info" section contains fields for "Account type" (set to CUSTOMER), "Account ID*", "Account Name*", "Description", and "Visible to other partners?". The "Contact Info" section contains fields for "Address1", "Address2", "City", "State/Province", "Zip/Postal Code", "Country" (set to United States), and "Region". In the "Account ID*" and "Account Name*" fields, the text "<h1>FNO</h1>" has been entered, which is highlighted by a red box. The "Additional Attributes" section is visible at the bottom of the form.

Figure 56: Error message when attempting to use HTML in the input fields of the **Edit Account** page.

Create Server Host Type

✖ HTML tags not allowed in name or description fields

Server Host Type Name*	PentestFNO
Description	Pentest
Name	Pentest
Default Host ID Type*	ETHERNET
Allowed Host ID Types	☒ ETHERNET ☒ INTERNET ☒ INTERNET_6 ☒ FLEXID_10 ☒ STRING ☒ USER ☒ VM_UUID ☒ TOLERANT ☒ EXTENDED ☒ PUBLISHER_DEFINED ☒ CONTAINER_ID
Identity	CLS_fnedemo_Id_1024
Default	☐
Visible in End-User Portal	☐

Figure 57: Error message when attempting to use HTML in the input fields of the **Create Server Host Type** page.

Figure 58: Error message when attempting to use HTML in the input fields of the **Entitle Customers To Licenses | Create An Entitlement** page.



Note - These changes do not affect existing fields that already contain HTML tags.

Resolved Access Control Vulnerability for Agreements

(SWM-28053)

This release addresses a previously identified broken access control vulnerability that allowed low-privilege users to access transaction details for agreements they were not authorized to view (under **Products > List Agreements**).

Low-privilege users can no longer view, download, or access transaction details for agreements outside their permission scope.

SOAP and REST Web Services Issues Resolved in 2025.09

The following issue related to FlexNet Operations Web Services was addressed in the 2025.09 release.

upgradeLicenseRequest Now Correctly Establishes Upgrade Relationship Between Entitlement Line Items

(Case 02760756, SWM-16718)

Previously, the **upgradeLicense** operation of the EntitlementOrderService SOAP web service (all versions) failed to create an upgrade relationship between entitlement line items. When submitting an **UpgradeLicenseRequest** to create an upgrade line item for a product configured with an Embedded Counted license model, the request returned a `NullPointerException`.

This issue has been resolved. The **upgradeLicense** operation now correctly establishes the upgrade relationship between line items when the upgrade path is defined between products.

User Experience Issues Resolved in 2025.09

The following issue related to user experience was addressed in the 2025.09 release.

Multilingual Input in Email Templates

(Case 03031323, SWM-26966)

In previous releases, email templates did not support multilingual input—such as Japanese, Chinese, or Korean—in the **Html Content** and **Text Content** fields. As a result, templates containing these characters were saved with corrupted content, typically displayed as '?????'.

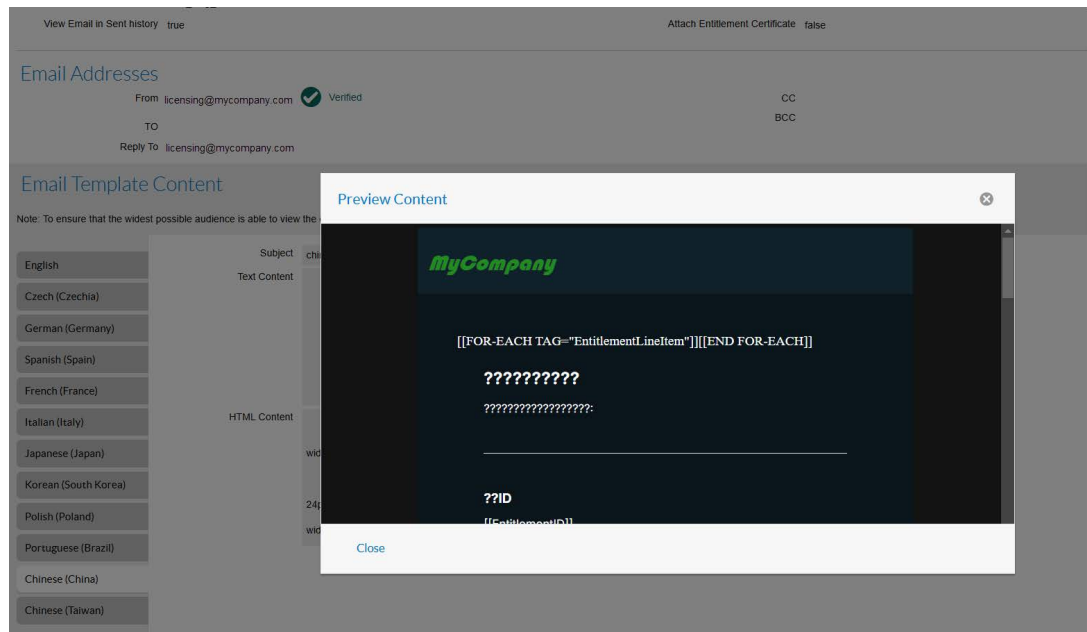


Figure 59: Example of Chinese characters not rendered correctly.

The 2025.09 release introduces full support for multilingual character encoding in both fields during template creation. Email content will now render correctly in the user's preferred language, based on their locale settings.

Issues Resolved in 2025.08

Issues in the following areas were resolved in the FlexNet Operations 2025.08 release:

- [Account and User Management Issues Resolved in 2025.08](#)
- [Entitlement Management Issues Resolved in 2025.08](#)
- [Security Issues Resolved in 2025.08](#)

Account and User Management Issues Resolved in 2025.08

The following issue involving the management of accounts and users was resolved in the 2025.08 release.

New Permission for Managing Part Numbers

(SWM-27450)

Prior to the 2025.08 release, users with the **View Products, Suites, and Maintenance** permission could still perform Create, Update, and Delete operations on part numbers.

To support more granular access control, the 2025.08 release updates the existing **Create Part Numbers** permission—renaming it to **Manage Part Numbers** and expanding its scope. This revised permission now explicitly governs the ability to add, modify, or delete part numbers.

Roles that previously included the **Create Part Numbers** permission have been automatically updated to include **Manage Part Numbers**, ensuring continuity of access for affected users.

Only users assigned a role that includes **Manage Part Numbers** can perform these operations. Users that do not have the **Manage Part Numbers** permission will no longer have access to part number management actions.

Entitlement Management Issues Resolved in 2025.08

The following issue was resolved for entitlement management in the 2025.08 release.

Upgrade Activation Warning Extended to Activation ID Logins

(Case 02733304, SWM-27200)

The 2025.03 release introduced a new configuration option **Display warning message when activating upgrade line item linked to parent line item** (under **System > Configure > FlexNet Operations > General Options**). The option controls whether the Producer Portal and the End-User Portal displays a warning message to alert users that activating a certain upgrade line item means that they can no longer activate previous versions of that line item. For details, see [Warning Message When Activating Licenses for Upgrade Line Items](#).

However, the changes made in 2025.03 meant that the warning message (if configured) would only be displayed in cases where the user logs into the End-User Portal using their user name or entitlement ID. The warning was not displayed when a user logged in using an activation ID and then proceeded to activate an upgrade line item by navigating to the **List Entitlements** page, selecting an entitlement and clicking **Activate**.

The 2025.08 release now addresses this gap. If **Display warning message when activating upgrade line item linked to parent line item** is selected, and a user tries to activate an upgrade line item that is linked to the parent line item, the following warning is displayed:

“If you activate the selected upgrade line item, you will no longer be able to activate previous versions of that line item. Are you sure you want to activate the upgrade line item?”

This warning will be displayed irrespective of whether the user logged into the End-User Portal using a user name, entitlement ID, or activation ID.

Security Issues Resolved in 2025.08

The following issues related to FlexNet Operations security were addressed in the 2025.08 release.

- [HTML Injection Vulnerability Mitigation Across FlexNet Operations](#)

- [Access Restriction on Email Templates Module](#)

HTML Injection Vulnerability Mitigation Across FlexNet Operations

(SWM-28050, SWM-28027)

FlexNet Operations was found to be vulnerable to HTML injection across multiple areas, posing potential security risks in user input fields. These vulnerabilities could have allowed unauthorized HTML content to be injected, potentially leading to cross-site scripting (XSS) attacks.

Affected Areas and Input Fields

- **Device Creation (Devices > Create Device)**

Affected input fields:

- **Name**
- **ID**
- **Site Name**
- **Notes**

- **Update Creation (Products > Updates > Create)**

Affected input fields:

- **Name**
- **Update ID**
- **Description**

Mitigation and Improvements

To mitigate HTML injection vulnerabilities, input sanitization and validation mechanisms have been put in place. These enhancements ensure that affected fields now properly detect and neutralize malicious HTML content. As a result, the application's security posture is strengthened, effectively preventing cross-site scripting (XSS) attacks and promoting safe handling of user-supplied data.

Any attempt to include HTML tags in restricted fields now triggers specific error messages to prevent misuse and guide users, as shown in the following screenshots:

- **Device Creation:**

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Home Entitlements Licenses Devices Usage Accounts & Users Products Administer Analytics

! invalid input provided

Device

New Device

Name: * <h1>demo</h1>

☐ Runs license server? ⓘ

Model: Use Default Model ⓘ

ID Type: * STRING ⓘ

ID: * <h1>demo</h1>

Identity: As Defined By Selected Model ⓘ

Account: ⓘ

Site name: <h1>demo</h1>

Notes: <h1>demo</h1>

Save

Figure 60: Error message when attempting to use HTML in the input fields of the **Create Device** page.

- Update Creation:

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Home Entitlements Licenses Devices Usage Accounts & Users Products Administer Analytics

Update

Back to list

Overview Release From Release To Languages Save

Status: Active ⓘ

Name: * <h1>demo</h1>
Unsupported character format

Update ID: * <h1>demo</h1>
only alphanumeric or alphabetic or .!@\$_%&*()_+,-= characters are allowed

Start date: * 07/28/2025 ⓘ

End date: ⓘ

Description: <h1>demo</h1>

Entitlement check: Account ⓘ

Figure 61: Error message when attempting to use HTML in the input fields of the **Update** page.



Note • These changes do not affect existing fields that already contain HTML tags.

Access Restriction on Email Templates Module

(SWM-28022)

Previously, low-privilege users were able to access the Email Templates module through force browsing, bypassing intended access controls.

With this release, access control has been enforced. Low-privilege users can no longer access the Email Templates module, even via force browsing attempts.

If a low-privilege user attempts to access the module through force browsing, they will now be presented with a "No Access" error message on the FlexNet Operations UI:

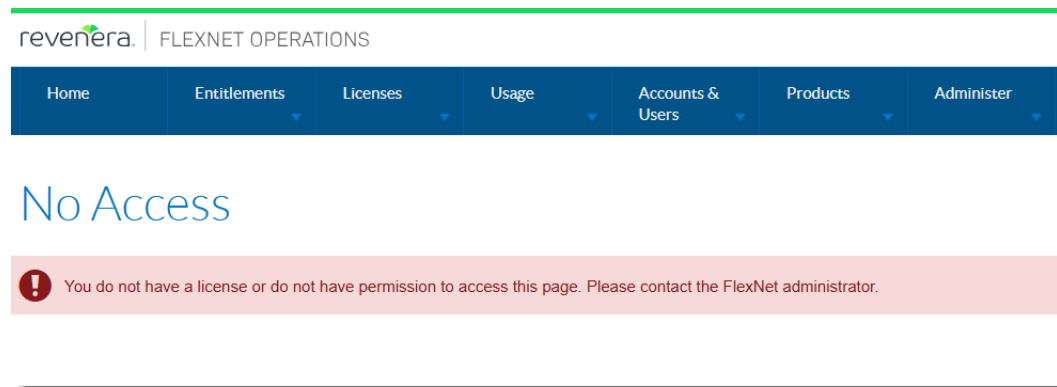


Figure 62: Error message when a low-privilege user attempts to access the Email Templates module.

Issues Resolved in 2025.07

Issues in the following areas were resolved in the FlexNet Operations 2025.07 release:

- [Entitlement Management Issues Resolved in 2025.07](#)
- [License Management Issues Resolved in 2025.07](#)
- [Security Issues Resolved in 2025.07](#)
- [SOAP and REST Web Services Issues Resolved in 2025.07](#)
- [User Experience Issues Resolved in 2025.07](#)

Entitlement Management Issues Resolved in 2025.07

The following issue was resolved for entitlement management in the 2025.07 release.

Faster Attribute Search

(SWM-27365)

Previously, performing advanced searches on custom entitlement attributes, custom attributes, and custom line item attributes resulted in slow response times on the **List Entitlements by Order** and **List Entitlements** pages.

In the 2025.07 release, the underlying queries have been optimized, significantly improving response times for these advanced searches. Users can now expect faster and more efficient retrieval of entitlement data when using custom attribute filters.

License Management Issues Resolved in 2025.07

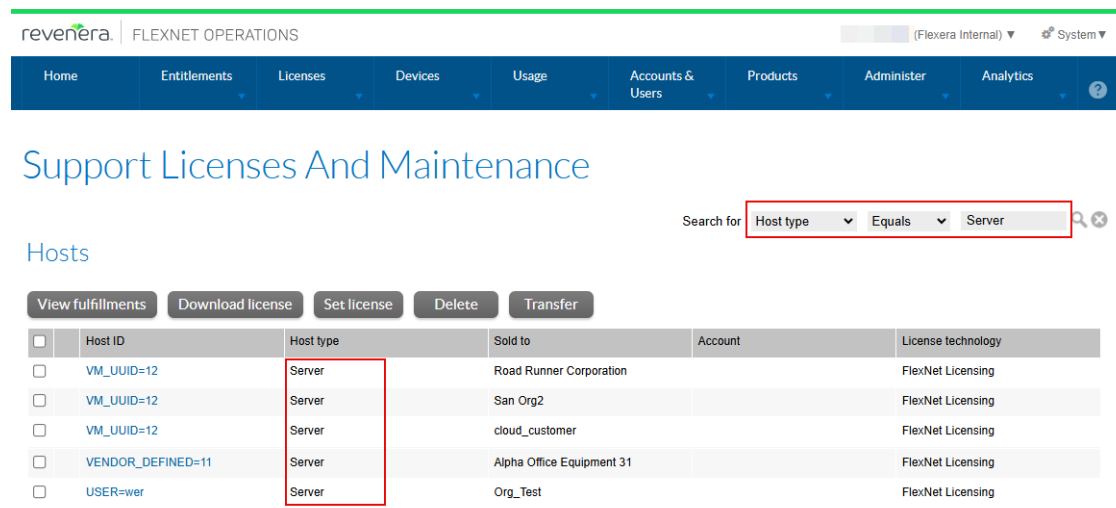
The following issue involving license management has been resolved in the 2025.07 release.

Filtering By Predefined Host Type

(SWM-25288)

In earlier versions, searches on the **Support Licenses and Maintenance | Hosts** page (under **Licenses > Hosts**) using predefined host types—such as Server, Nodelocked, Custom, and Trusted—did not return any results, even though searches using custom host type names functioned correctly.

As of release 2025.07, this issue has been resolved. Searches using predefined host types now return the expected host records, ensuring consistent and reliable search behavior across all host type categories.



revenera. | FLEXNET OPERATIONS (Flexera Internal) System

Home Entitlements Licenses Devices Usage Accounts & Users Products Administer Analytics

Support Licenses And Maintenance

Search for Host type Equals Server

Hosts

View fulfillments Download license Set license Delete Transfer

	Host ID	Host type	Sold to	Account	License technology
☐	VM_UUID=12	Server	Road Runner Corporation		FlexNet Licensing
☐	VM_UUID=12	Server	San Org2		FlexNet Licensing
☐	VM_UUID=12	Server	cloud_customer		FlexNet Licensing
☐	VENDOR_DEFINED=11	Server	Alpha Office Equipment 31		FlexNet Licensing
☐	USER=wer	Server	Org_Test		FlexNet Licensing

Security Issues Resolved in 2025.07

The following issue related to FlexNet Operations security was addressed in the 2025.07 release.

Encoding of Special Characters in Role Names and Descriptions

(Case 02889178, SWM-22286)

To enhance security and prevent potential vulnerabilities, role names and descriptions that include specific special characters are now encoded before being stored in the database. These values are automatically decoded when displayed to users.

If a role name or description contains any of the special characters listed in the following table, it will be encoded using hexadecimal format during storage. Upon retrieval, the encoded values are decoded to ensure proper display in the user interface.

Character	Name
!	Exclamation mark
“	Quotation mark (double quote)
#	Number sign (hash or pound)
\$	Dollar sign
%	Percent sign
&	Ampersand
'	Apostrophe (single quote)
(	Left parenthesis
)	Right parenthesis
*	Asterisk
+	Plus sign
,	Comma
-	Hyphen (minus sign)
.	Period (dot)
/	Slash (forward slash)
:	Colon
;	Semicolon
<	Less-than sign
=	Equals sign
>	Greater-than sign
?	Question mark
@	At sign
[	Left square bracket

Character	Name
]	Right square bracket
^	Caret
_	Underscore
`	Grave accent
{	Left curly brace
	Vertical bar (pipe)
}	Right curly brace
~	Tilde

This change applies to existing roles as well as newly created roles.



Note - Role names containing any of the special characters listed in the table will be stored in an encoded format in the Reporter database.

Updating Users with Existing Roles with Special Characters

When an existing role name contains special characters, calling the **updateUser** operation of the UserAcctHierarchy SOAP web service will return the error "Invalid Role Name".

As a workaround, save the role name using the **Roles** page in the Producer Portal. This ensures that the role name is converted to encoded format in the database. Once the role has been saved, calling **updateUser** will no longer return an error.

This issue does not occur when managing roles via the Producer Portal.

Adding or Editing Roles

Role names and descriptions are entered in the Producer Portal on the **Add Role** page (available by clicking **Accounts & Users > All Roles > Add**), as shown in this screenshot:

The screenshot shows the 'Add Role' page in the Flexera FlexNet Operations interface. The page has a navigation bar with tabs: Home, Entitlements, Licenses, Devices, Usage, Accounts & Users, Products, Administer, and Analytics. The 'Accounts & Users' tab is selected. The main content area is titled 'Add Role'. It contains a form with the following fields:

- Name:** Demo Role (marked with a red asterisk indicating it is required)
- Description:** Demo Role for SWM-22286
- Role Type:** Publisher Role (dropdown menu)
- Status:** Active (dropdown menu)

A red box highlights the Name and Description fields. A red asterisk and the text '* required' are shown at the bottom left of the form.

Figure 63: The **Add Role** page with the **Name** and **Description** fields.

To edit a role, click **Accounts & Users > All Roles** to open the **Roles** page. Then click a role name, make your edits and save.

SOAP and REST Web Services Issues Resolved in 2025.07

The following issues related to FlexNet Operations Web Services were addressed in the 2025.07 release.

- [updateEntitlementLineItem Web Service Now Supporting Upsells and Renewals](#)
- [Improved Error Message For Country Code Validation in createUser API](#)

updateEntitlementLineItem Web Service Now Supporting Upsells and Renewals

(SWM-22395)

The **updateEntitlementLineItem** method of the EntitlementOrderService web service has been enhanced to support Upsell and Renewal operations through the **lineItemType** field.

This enhancement improves automation capabilities for producers managing complex product relationships.

Previously, attempts to set an upsell or renewal relationship between entitlement line items using the **updateEntitlementLineItem** operation were unsuccessful. Although the operation returned a SUCCESS response, the line item type remained unchanged (e.g., stayed in NEW state).

To address this, the **updateEntitlementLineItem** method has been enhanced to support Upsell and Renewal values for the **lineItemType** field. When there are multiple entitlement line items, the **updateEntitlementLineItem** method can be used to establish Upsell and Renewal relationships between two valid line items.

The enhancement affects the EntitlementOrderService web service version 7 and above.

The following section shows sample code for **updateEntitlementLineItem**.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:urn="urn:v8.webservices.operations.flexnet.com">
  <soapenv:Header/>
```

```

<soapenv:Body>
  <urn:updateEntitlementLineItemRequest>
    <!--1 or more repetitions:-->
    <urn:lineItemData>
      <urn:entitlementIdentifier>
        <urn:primaryKeys>
          <urn:entitlementId>Ent_150</urn:entitlementId>
        </urn:primaryKeys>
      </urn:entitlementIdentifier>
      <!--Zero or more repetitions:-->
      <urn:lineItemData>
        <urn:lineItemIdentifier>
          <urn:primaryKeys>
            <urn:activationId>c3a8-da3d-ba22-4014-a7ac-2e18-55cf-
289d</urn:activationId>
          </urn:primaryKeys>
        </urn:lineItemIdentifier>
        <urn:product>
          <urn:primaryKeys>
            <urn:name>p00002</urn:name>
            <urn:version>1.0</urn:version>
          </urn:primaryKeys>
        </urn:product>
        <urn:licenseModel>
          <urn:primaryKeys>
            <urn:name>akFloatingCounted</urn:name>
          </urn:primaryKeys>
        </urn:licenseModel>
        <urn:parentLineItem>
          <urn:primaryKeys>
            <urn:activationId>ffbd-b450-176f-4570-a7b6-d260-4b63-
0166</urn:activationId>
          </urn:primaryKeys>
          <!--Optional:-->
          <urn:lineItemType>UPSELL</urn:lineItemType>
        </urn:parentLineItem>
      </urn:lineItemData>
      <urn:autoDeploy>false</urn:autoDeploy>
    </urn:lineItemData>
  </urn:updateEntitlementLineItemRequest>
</soapenv:Body>
</soapenv:Envelope>

```

If valid values for an existing **lineItem** are provided as **parentLineItem**, and the **lineItemType** is set to UPSELL, a new upsell relationship will be created between the **lineItemIdentifier** and the **parentLineItem**.

Similarly, if valid values for an existing **lineItem** are provided as **parentLineItem**, and the **lineItemType** is set to RENEWAL, a new renewal relationship will be created between the **lineItemIdentifier** and the **parentLineItem**.

Improved Error Message For Country Code Validation in createUser API

(SWM-27390)

In the 2025.06 release, the **createUser** API of the UserAcctHierarchyService web service was enhanced to validate the provided two-letter country code (see [Country Code Validation in createUser API](#)).

In the 2025.07 release, the error message that is returned when the **createUser** or **updateUser** API fails due to an invalid country code has been updated. The previous message has been replaced with the following clearer and more descriptive version:

Invalid country code format. Enter a valid two-letter country code based on the ISO 3166-1 Alpha-2 code standard, such as "US" or "CA".

User Experience Issues Resolved in 2025.07

The following issue related to user experience was addressed in the 2025.06 release.

- [Country Name “Türkiye” No Longer Contains Invalid Characters](#)
- [Performance Improvements of Bulk Upgrade Operations](#)
- [Bulk Upgrade Jobs with Auto-Fulfill No Longer Failing](#)

Country Name “Türkiye” No Longer Contains Invalid Characters

(Cases 03039999, 03048568; SWM-27007)

Previously, the country name “Türkiye” was not displayed correctly and appeared as “TÃ¼rkiye”. This occurred in the following cases:

- When creating a user or account in the Producer Portal
- When creating a user or a sub-account in the End-User Portal

The screenshot shows the 'Create A User' page in the Producer Portal. The page is divided into two main sections: 'User Details' and 'Contact Details'. In the 'User Details' section, there are fields for 'End-User Portal Access?' (Yes/No), 'Time Zone' (GMT -8.0 Pacific Time), 'Status' (Active), and 'Shared Login' (Yes/No). In the 'Contact Details' section, there are fields for 'First Name', 'Last Name', 'Email Address', 'Opt in to receive email' (Yes/No), 'Phone', and 'Fax'. A dropdown menu for 'Country' is open, showing a list of countries with 'Türkiye' highlighted. The 'Country' field is set to 'United States'.

Figure 64: Screenshot showing the **Create A User** page in the Producer Portal, where the country name “Türkiye” is now displayed correctly.

Performance Improvements of Bulk Upgrade Operations

(Case 03048145, SWM-27660)

In earlier releases, bulk upgrade operations processing large data volumes could encounter failures and timeouts due to a missing filter.

In the 2025.07 release, the missing filter has been added, significantly improving the reliability and performance of bulk operations.

Bulk Upgrade Jobs with Auto-Fulfill No Longer Failing

(Case 03036671, SWM-26914)

Bulk operation jobs with auto-fulfill for FlexNet Embedded are no longer failing.

Issues Resolved in 2025.06

Issues in the following areas were resolved in the FlexNet Operations 2025.06 release:

- [SOAP and REST Web Services Issues Resolved in 2025.06](#)
- [User Experience Issues Resolved in 2025.06](#)

SOAP and REST Web Services Issues Resolved in 2025.06

The following issue related to FlexNet Operations Web Services was addressed in the 2025.06 release.

- [Country Code Validation in createUser API](#)
- [updateProduct API Call No Longer Fails to Update Product Fields](#)

Country Code Validation in createUser API

(SWM-26045)

Starting with the 2025.06 release, the **createUser** API of the UserAcctHierarchyService web service now validates the provided two-letter country code (if a code country is specified). If the country code is invalid, the request fails and the API returns an error. The validation is performed in all versions of the UserAcctHierarchyService web service.

Specifying a country code is optional. If provided, the country codes must follow the two-letter format based on the ISO 3166-1 Alpha-2 standard. If no country code is provided, the user will be created with the default country code "US" (United States).



Note ▪ The default country code can be changed under **System > Configure > FlexNet Operations > General Options > Default Country for Users and Account Addresses**.

This change addresses an issue whereby users created without a supported country code were previously instead assigned a default country code, which resulted in incorrect data. These users were not synced with the Electronic Software Delivery (ESD) system and were therefore unable to access their software downloads in the End-User Portal. In addition, because a default country code was assigned, the process did not return an error, and customers were not aware of the discrepancy.

Sample Code for createUser API

This section contains example code for the following scenarios:

- [Soap request with an invalid country code](#)
- [Soap response for a request with an invalid country code](#)
- [Soap request with a valid country code](#)
- [Soap response for a request with a valid country code](#)

Soap request with an invalid country code

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:urn="urn:v6.webservices.operations.flexnet.com">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:createUserRequest>
      <!--1 or more repetitions:-->
      <urn:user>
        <urn:firstName>Dev008</urn:firstName>
        <urn:lastName>New008</urn:lastName>
        <urn:displayName>Dev008 New008</urn:displayName>
        <urn:emailAddress>testtrial0015@revenera.com</urn:emailAddress>
        <urn:street>Pehani</urn:street>
        <urn:city>Gaya</urn:city>
        <urn:state>NA</urn:state>
        <urn:zipcode>54879</urn:zipcode>
      </urn:user>
    </urn:createUserRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

```

    <urn:country>Ind</urn:country>
    <urn:canLogin>1</urn:canLogin>
    <urn:acctRolesList>
      <urn:acctRoles>
        <urn:account>
          <urn:primaryKeys>
            <urn:id>123</urn:id>
          </urn:primaryKeys>
        </urn:account>
        <urn:roles>
          <urn:role>
            <urn:primaryKeys>
              <urn:name>Portal User Role</urn:name>
            </urn:primaryKeys>
          </urn:role>
        </urn:roles>
      </urn:acctRoles>
    </urn:acctRolesList>
  </urn:user>
  <urn:opType>CREATE_OR_UPDATE</urn:opType>
</urn:createUserRequest>
</soapenv:Body>
</soapenv:Envelope>

```

Soap response for a request with an invalid country code

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Body>
    <createUserResponse xmlns="urn:v6.webservices.operations.flexnet.com">
      <statusInfo>
        <status>FAILURE</status>
        <reason>All input data in the request failed. Please check the specific reasons in
returned data.</reason>
      </statusInfo>
      <failedData>
        <failedUser>
          <user>
            <firstName>Dev0091</firstName>
            <lastName>New0091</lastName>
            <displayName>Dev0091 New0091</displayName>
            <emailAddress>testtrial0091@revenera.com</emailAddress>
            <street>Pehani</street>
            <city>Gaya</city>
            <state>NA</state>
            <zipcode>54879</zipcode>
            <country>Ind</country>
            <canLogin>true</canLogin>
            <acctRolesList>
              <acctRoles>
                <account>
                  <primaryKeys>
                    <id>123</id>
                  </primaryKeys>
                </account>
                <roles>

```

```

        <role>
            <primaryKeys>
                <name>Portal User Role</name>
            </primaryKeys>
        </role>
    </roles>
</acctRoles>
</acctRolesList>
</user>
    <reason>9999: [Incident# 1863-943] Please provide correct format of
country</reason>
</failedUser>
</failedData>
</createUserResponse>
</soapenv:Body>
</soapenv:Envelope>

```

Soap request with a valid country code

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:v6.webservices.operations.flexnet.com">
    <soapenv:Header/>
    <soapenv:Body>
        <urn:createUserRequest>
            <!--1 or more repetitions:-->
            <urn:user>
                <urn:firstName>Dev0091</urn:firstName>
                <urn:lastName>New0091</urn:lastName>
                <urn:displayName>Dev0091 New0091</urn:displayName>
                <urn:emailAddress>testtrial0091@revenera.com</urn:emailAddress>
                <urn:street>Pehani</urn:street>
                <urn:city>Gaya</urn:city>
                <urn:state>NA</urn:state>
                <urn:zipcode>54879</urn:zipcode>
                <urn:country>IN</urn:country>
                <urn:canLogin>1</urn:canLogin>
                <urn:acctRolesList>
                    <urn:acctRoles>
                        <urn:account>
                            <urn:primaryKeys>
                                <urn:id>123</urn:id>
                            </urn:primaryKeys>
                        </urn:account>
                        <urn:roles>
                            <urn:role>
                                <urn:primaryKeys>
                                    <urn:name>Portal User Role</urn:name>
                                </urn:primaryKeys>
                            </urn:role>
                        </urn:roles>
                    </urn:acctRoles>
                </urn:acctRolesList>
            </urn:user>
            <urn:opType>CREATE_OR_UPDATE</urn:opType>
        </urn:createUserRequest>
    </soapenv:Body>
</soapenv:Envelope>

```

Soap response for a request with a valid country code

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <soapenv:Body>
    <createUserResponse xmlns="urn:v6.webservices.operations.flexnet.com">
      <statusInfo>
        <status>SUCCESS</status>
      </statusInfo>
      <responseData>
        <user>
          <uniqueId>HID-75</uniqueId>
          <userName>testtrial0091@revenera.com</userName>
          <primaryKeys>
            <firstName>Dev0091</firstName>
            <lastName>New0091</lastName>
            <emailAddress>testtrial0091@revenera.com</emailAddress>
          </primaryKeys>
        </user>
      </responseData>
    </createUserResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

updateProduct API Call No Longer Fails to Update Product Fields

(Cases 03043898, 03047906, 03048567, 03050705; SWM-27193)

In the 2025.05 release, the **updateProduct** API of the ProductPackagingService web service (all versions) failed to update product fields such as description, part number, and product line. The API returned the following reason for the failure: "All input data in the request failed. Please check the specific reasons in returned data."

This issue has been resolved in the 2025.06 release. The API now correctly updates all relevant product fields as expected.

User Experience Issues Resolved in 2025.06

The following issues related to user experience were addressed in the 2025.06 release.

- Password Reset Now Working As Expected
- "View Server" or "Device" Page in End-User Portal Now Displaying Custom Logo
- Analytics Menu and Configure Single Sign-On Page Now Accessible from Electronic Software Download Module Pages

Password Reset Now Working As Expected

(Case 03238562, SWM-27609)

Previously in certain environments of the Producer Portal and End-User Portal, the password reset feature did not function correctly. Specifically, this issue occurred intermittently in the Production NAM5 environment.

On the **Create A User** page, clicking the **Reset password** button would send an email with a temporary password. However, the password could not be used to log in to the Producer Portal or End-User Portal.

This issue has now been resolved, and the password reset process is working as intended.

“View Server” or “Device” Page in End-User Portal Now Displaying Custom Logo

(Case 03030863, SWM-26718)

In the End-User Portal, the **Device** or **View Server** page (available from the **Devices** menu) no longer incorrectly displays the Revenera logo and “FlexNet Operations” product name, instead of a custom logo (if a custom logo has been specified).

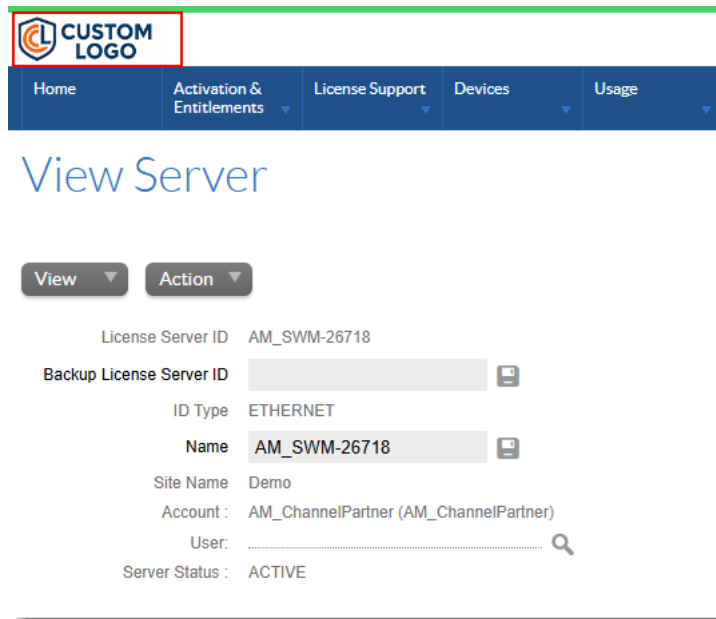


Figure 65: Example of the **View Server** page in the End-User Portal with a custom logo.



Note - Producers can upload an image file to serve as custom logo in the End-User Portal using the **Upload Company Logo** configuration option (under **System > Configure > End-User Portal Setup > Custom Branding**).

Analytics Menu and Configure Single Sign-On Page Now Accessible from Electronic Software Download Module Pages

(SWM-23190)

Previously in the Producer Portal, when navigating to any page that is part of the Electronic Software Download module, the **Analytics** menu and the **Configure Single Sign-On** option (under the **Administer** menu) were not displayed and therefore could not be accessed.

The Electronic Software Download module includes the areas **Download Packages**, **Files**, **Agreements** and **Producers** under the **Products** menu.

This issue has been resolved. The **Analytics** menu and the **Configure Single Sign-On** option now appear consistently, regardless of the navigation path taken.

Issues Resolved in 2025.05

An issue in the following area was resolved in the FlexNet Operations 2025.05 release:

- [Data Analytics Issues Resolved in 2025.05](#)
- [Entitlement Management Issues Resolved in 2025.05](#)
- [Export and Import Issues Resolved in 2025.05](#)
- [Security Issues Resolved in 2025.05](#)
- [User Experience Issues Resolved in 2025.05](#)

Data Analytics Issues Resolved in 2025.05

The following issue was resolved for the Analytics functionality in the 2025.05 release.

Changes to Download Data and File Size in Analytics Dashboard

(SWM-26838)

The following changes were made which affect the **Software Delivery Download History** report (available from the **Analytics** menu).

Download Data

Previously, no date filter was applied to the data in the **Software Delivery Download History** report; its figures were based on all data available at the time in the Data Warehouse and therefore lacked relevance from a business perspective.

To address this, a default filter is now active which restricts download data to the last 12 months. For example, on April 18th, 2025, the data fetched ranges from April 18, 2024 to April 18, 2025.

This filter allows producers to gain insights into software downloads within the past 12 months.

To fetch data for a shorter or longer period, producers can edit the `DOWNLOAD_START_DATE` filter in the Filters panel.

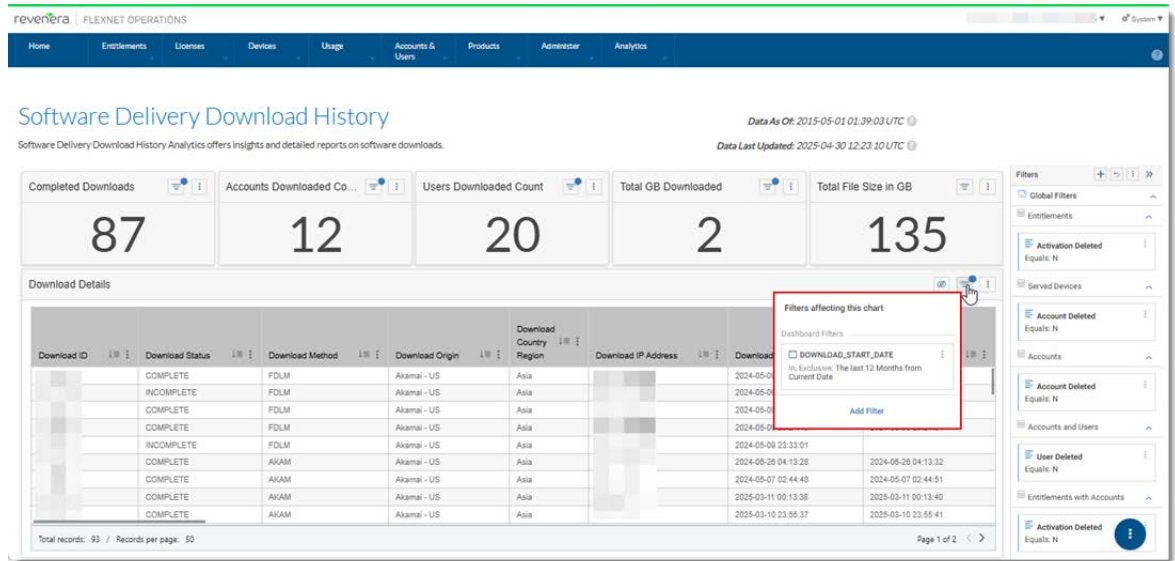


Figure 66: By default, the DOWNLOAD_START_DATE filter is set to show download data for the last 12 months from the current date.

File Sizes

File sizes are now measured using the decimal system (base 10), rather than binary conversion. This means that 1 KB equals 1000 bytes, not 1024 bytes as in the binary system.

This way of calculating data sizes is now consistent between the Analytics functionality and FlexNet Operations Reporter.

Entitlement Management Issues Resolved in 2025.05

The following issue was resolved for entitlement management in the 2025.05 release.

Download Now Link in End-User Portal Now Working As Expected

(Case 02989988, SWM-25688)

In the End-User Portal, download packages could previously not be downloaded from either the **New Versions** or **Previous Versions** tab on the **Download Order** page. (The **Download Order** page is available by selecting **Activation & Entitlements** > **List Entitlements** and clicking the **Download Now** link for an entitlement). Instead of a download link, both tabs showed the error message “There are currently no available downloads defined for your account.” However, downloads were indeed available, as confirmed on the **List Downloads** page.

This problem has now been resolved. If a user has an entitlement that has download packages associated, they will be able to download the download packages from the **New Versions** tab.

In addition, expired or archived download packages are now displayed and can be downloaded from the **Previous Versions** tab.

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FLEXNET OPERATIONS

User 25688 ▼

Home

Activation & Entitlements

License Support

Devices

Usage

Downloads

Accounts & Users

Download Order

The Download Order page lists new and previous versions of available download components.

Activation ID: 8022-1fbb

Product: Product_25688

New Versions

Previous Versions

Download Package	Last Update
DP_25688	Apr 04, 2025
NewDP_25688	Apr 02, 2025

Figure 67: The **Download Order** page now shows expired or archived download packages on the **Previous Versions** tab.

Export and Import Issues Resolved in 2025.05

The following issue related to the Data Export and Import functionality was resolved in the 2025.05 release.

Account Data Export

(Cases 03030706, 03032924; SWM-26609)

In this release, the functionality for exporting accounts information has been restored.

In its **Export** menu, the **Manage Accounts** page (available from **Accounts & Users > All Accounts**) now shows the correct option, **Data Import Template**. Clicking **Export > Data Import Template** triggers an export job, which creates a downloadable Data Import Template (.xlt) file containing the relevant entities.

The image below shows the option **Data Import Template** which is used to export accounts information:

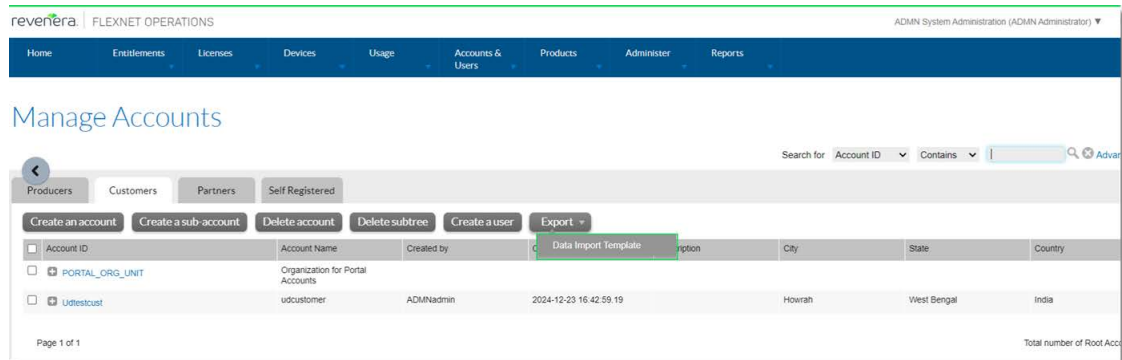


Figure 68: The **Export** menu now contains the correct option, **Data Import Template**, for exporting accounts information.

Previously, in its **Export** menu, the **Manage Accounts** page showed the options **Selected Items** and **Selected Items with Their Dependencies**, which had no underlying functionality (.JAR export is not available for accounts and users).

Security Issues Resolved in 2025.05

The following issue related to FlexNet Operations security was addressed in the 2025.05 release.

Upgraded Chart.js

(Case 02999121, SWM-25776)

The Chart.js library has been upgraded to version 2.9.4 to address potential security vulnerabilities.

User Experience Issues Resolved in 2025.05

The following issue related to user experience was addressed in the 2025.05 release.

- **System Roles No Longer Visible in Portals**
- **Resolved Issue of Incorrectly Formatted Page in End-User Portal**

System Roles No Longer Visible in Portals

(Cases 03009399, 03009414, 3011796; SWM-26277)

The system roles **Default Producer Role** and **Manage Impersonated Access Tokens PP**, and **Default Portal Role** and **Manage Impersonated Access Tokens EP** are no longer visible in the Producer Portal and the End-User Portal, respectively.

These roles are not intended for selection by producers or end users. To avoid that they are mistakenly assigned they are now hidden from the Producer Portal and End-User Portal.



Note - The roles **Manage Impersonated Access Tokens PP** and **Manage Impersonated Access Tokens EP** contain permissions for issuing so-called impersonated access tokens, which are a means to securely authorize SOAP and REST web service calls to FlexNet Operations. While the term “impersonated” might sound concerning, it simply refers to a mechanism where a privileged user can securely act on behalf of another user with limited permissions.

Resolved Issue of Incorrectly Formatted Page in End-User Portal

(Case 02411062, SWM-26279)

In the End-User Portal, when associating an existing user to an account, the page for selecting users was not correctly formatted.

The issue could be seen by following these steps:

1. Click **Accounts & Users > List Accounts**.
2. On the **Accounts** page, click a hyperlinked account ID.
3. In the **Account Users** section, click **Actions > Link existing users**.
4. Click the pagination arrow to see the next set of users.
5. You will see the page with formatting issues:

The screenshot shows a web interface for selecting users. At the top, there is a pagination control showing 'Page 2 of 2'. Below this is a search bar with a 'Display name' dropdown and a 'Contains' dropdown, followed by an 'Advanced Search' link. The main content area is a table with columns: 'Display name', 'User name', 'Email address', 'Type', and 'Role'. The 'Display name' column has a checkbox and a link 'Display name'. The 'User name' column has a checkbox and the text 'User Name'. The 'Email address' column has the text 'newuser@mycompany.com'. The 'Type' column has a checkbox and a list of roles: 'End User', 'Portal Admin User Role', 'Branding test', 'End User', 'Portal Admin', and 'Portal no Announcements'. The 'Role' column has a checkbox and a list of roles: 'Generate License', 'Integration', 'Portal User Role', 'Technical Support', 'WS End User', and 'Custom Role2'. At the bottom, there are 'OK' and 'Cancel' links.

This issue no longer occurs.

Issues Resolved in 2025.04

An issue in the following area was resolved in the FlexNet Operations 2025.04 release:

- **Electronic Software Delivery Issues Resolved in 2025.04**

Electronic Software Delivery Issues Resolved in 2025.04

The following issue was resolved for Electronic Software Delivery (ESD) in the 2025.04 release.

Uploading New File Versions Will Update Existing Content

(Cases 02225917, 02567912, 02680773, 02834194, 02918066, 02918272, 02995536, 03003837, 03008991; SWM-19909)

Previously, when uploading a new version of a file (or package) whose previous version existed in the Software Delivery system, it was recommended to use a new file name. This best practice prevented the delivery of “stale” file content to customers, because uploading a new file with the same file name would not reliably overwrite the existing file.

Now, you can upload new content using an existing file name, which will replace the existing content.

Issues Resolved in 2025.03

Issues in the following areas were resolved in the FlexNet Operations 2025.03 release:

- [Account and User Management Issues Resolved in 2025.03](#)
- [Electronic Software Delivery Issues Resolved in 2025.03](#)
- [Entitlement Management Issues Resolved in 2025.03](#)
- [Export and Import Issues Resolved in 2025.03](#)
- [Security Issues Resolved in 2025.03](#)

Account and User Management Issues Resolved in 2025.03

The following issues involving the management of accounts and users were resolved in the 2025.03 release.

- [Users With Expired Accounts No Longer Fail to Update](#)
- [Partners Can Now Filter Devices by Account Name and ID in End-User Portal](#)

Users With Expired Accounts No Longer Fail to Update

(Case 02917771, SWM-24640)

In previous releases, when an account was linked to a user whose association with a different account had expired, the account could not be updated. When attempting to update such an account, FlexNet Operations returned an error message. The following example illustrates the scenario in which the error was displayed:

1. The following two end-customer accounts exist: account ACME and account INDIGO.
2. User A is linked to account ACME. The expiry date was set using the Data Import template; and the association between user A and account ACME is set to expire on **January 10**.
3. On **January 28**, you want to link user A to the INDIGO account. This fails with the error message “Expiry date should be either today or after date”

If the user expiry was set via web services or the Producer Portal user interface, and the date has passed, the user could be linked to another account. The problem occurred only when the expiry date was set via the Data Import template.

This issue has now been resolved. Users whose expiry dates are set using the Data Import template are allowed to be linked to other accounts when those expiry dates have passed. If a user is expired on one account, this does not prevent the linking on another account.

Partners Can Now Filter Devices by Account Name and ID in End-User Portal

(Cases 02114107, 02908843; SWM-6311)

Previously, when a channel partner logged in to the End-User Portal and tried to filter the **Devices** page for devices by account ID or account name, the query did not return any devices. This limitation made it difficult for partners to assist their customers with license allocation and troubleshooting.

In the 2025.03 release, this limitation has been addressed, and channel partners can now filter the **Devices** page for devices by account ID or account name.

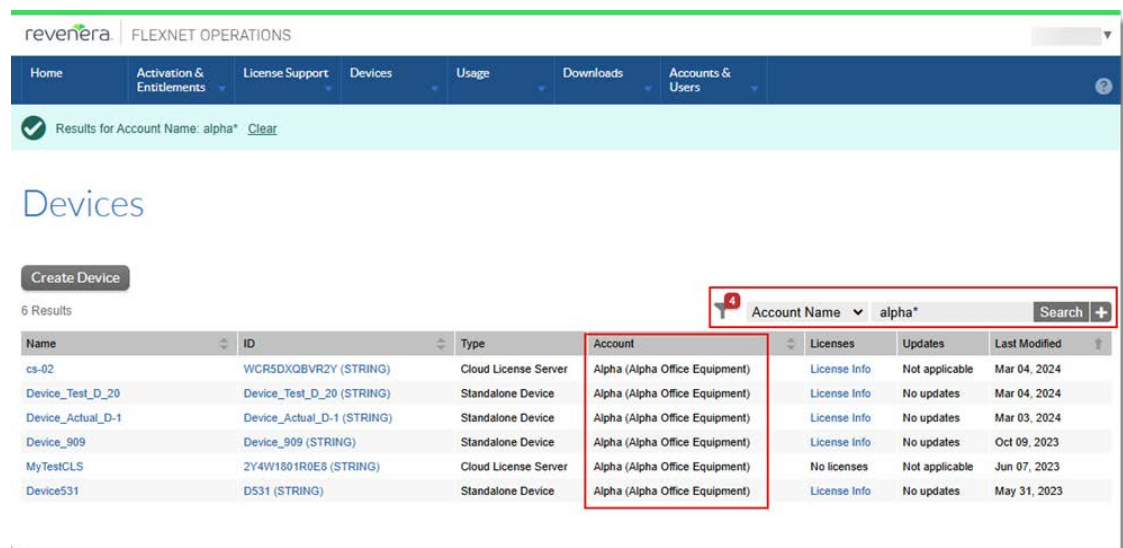


Figure 69: Example screenshot showing filtering devices by account name

Electronic Software Delivery Issues Resolved in 2025.03

The following issue was resolved for Electronic Software Delivery (ESD) in the 2025.03 release.

Download Package Search No Longer Returns Duplicate Counts

(Case 02988915, SWM-25228)

When retrieving download package counts using the **getDownloadPackageCount** operation of the DownloadPackagingService web service or using the **Search Download Packages** page in the Producer Portal, the query could return incorrect counts. This issue occurred in the following scenarios:

- The **getDownloadPackageCount** operation returned an incorrect count if a download package had multiple values set for a multi-value text custom attribute.

- The **Search Download Packages** page returned duplicate values when searching for a download package using a wildcard character (*) in a custom attribute.

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Home Entitlements Licenses Devices Usage Accounts & Users Products Administer

Search Download Packages

To perform a Download Package search fill out at least one criterion. If you fill out multiple criteria, the search will look for Download Packages that match all criteria entered. Use * for a wildcard on any field except System Download Package ID. Note: the search is not case sensitive.

Download Package ID ?

System Download Package ID ?

Download Package Name ?

Version ?

Availability ALL

Download Package Producer ?

Product Line ?

OR Enter Product Line ID

End User License Agreement ? ** None **

Created After mm/dd/yyyy

Created Before mm/dd/yyyy

DownloadPackage_Wildcard *

ANONYMOUS_ALLOWED

Figure 70: Previously, using a wildcard (*) in a custom attribute when searching for download packages could cause the Producer Portal to return duplicates.

This issue has now been resolved. The fix for the **getDownloadPackageCount** operation applies to all versions of the DownloadPackagingService web service.

Entitlement Management Issues Resolved in 2025.03

The following issues were resolved for entitlement management in the 2025.03 release.

- [Google reCAPTCHA Challenge Now Displays Complete Set of Pictures, Allowing to Send Entitlement Emails](#)
- [Saving a Feature with Space in Version Number Triggers Meaningful Error Message](#)
- [Rearranging Features on the Products Page in the Producer Portal](#)
- [Filter "Is remaining copies more than zero?" Now Working as Expected in Producer Portal](#)
- [Resolved Discrepancy Between Number of Entitlements in End-User Portal and Producer Portal](#)
- [Retriggering Stuck Jobs for Bulk Upgrade Operations](#)

Google reCAPTCHA Challenge Now Displays Complete Set of Pictures, Allowing to Send Entitlement Emails

(Case 02552507, SWM-20758)

In the Producer Portal, if the Google reCAPTCHA challenge is active, the Google reCAPTCHA challenge now displays a complete set of pictures when attempting to send entitlement emails from the **List Entitlements** page.

To send an email from the **List Entitlements** page (under **Entitlements > List Entitlements**), select an entitlement and click **Email**. On the next page, click **I'm not a robot**. The Google reCAPTCHA challenge displays a set of pictures and prompts you to select certain pictures to prove that you are human before sending the email.

Previously, some of the pictures were missing, making it impossible for users to complete the challenge and send emails from the **List Entitlements** page (by selecting an entitlement and clicking Email).

The following screenshots show an example of the reCAPTCHA screen with missing pictures and the same page with the fix:

The screenshot shows the 'List Entitlements' page in the FlexNet Operations interface. The page has a navigation bar with links: Home, Entitlements, Licenses, Devices, Usage, Accounts & Users, Products, Administer, and Analytics. The main content area is titled 'List Entitlements' and includes a search bar and a table of entitlements. A reCAPTCHA challenge is displayed, asking the user to 'Select all squares with motorcycles'. The challenge area shows a grid of images, some of which are missing or corrupted. A table of entitlements is visible in the background.

Entitlement No	ENT_Test_AutoRenew
Order Date	Mar 1, 2024
PO Number	
Sales Order Number	100

Description	Activation ID	Quantity	License Type	Start Date	Expiration Date
This is product description 1 This is product description 2 This is product description 3 This is product description 4 This is product description 5	PPFC-3177-990D	1		Mar 1, 2024	

Figure 71: Entitlement email with corrupted reCAPTCHA panel

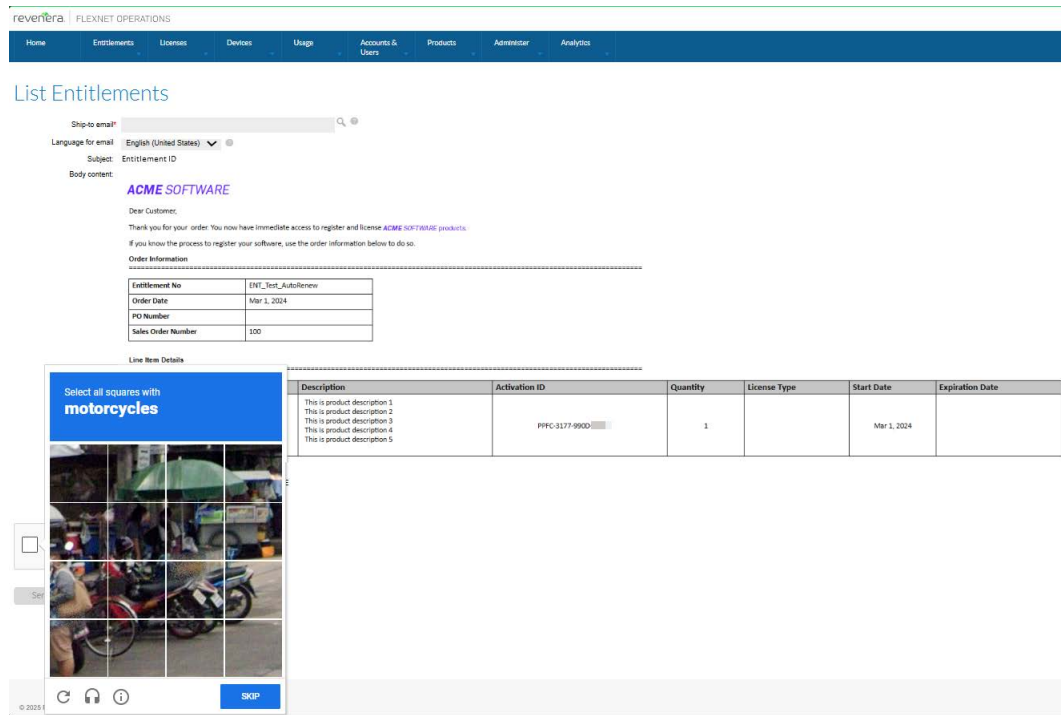


Figure 72: Entitlement email with fixed reCAPTCHA panel, showing all pictures.



Note - To use Google reCAPTCHA, the following configuration options must be set:

- **Recaptcha Site key** and **Recaptcha Secret password** (under **System > Configure > FlexNet Platform Server > General Options**)
- **Use Recaptcha validation when sending entitlement emails** (under **System > Configure > FlexNet Operations > General Options**) must be selected.

Saving a Feature with Space in Version Number Triggers Meaningful Error Message

(Case 02990348, SWM-25307)

In previous releases, when a feature was created with the **Version Format Type** set to **Fixed** and the **Version** field included a space (for example, "1.0 "), the feature was created successfully. However, adding such features to a product later failed with the following error message:

The version string "2.0 " for feature "TestSpaceInVersionField" is not a valid FlexNet version: must be <number>.<number> [Incident# 9379-0620915R]

To be able to map the feature to a product, producers had to return to the feature and modify the version to remove spaces, which caused frustration and wasted producers' time.

New Behavior

In the 2025.03 release, producers are alerted during the feature creation process that a feature with the **Version Format Type** set to **Fixed** cannot have a version number containing spaces. If a feature's **Version Format Type** is set to **Fixed** and the **Version** field contains a space, upon saving the feature the following error message is displayed:

The version format is invalid. Please follow the standard format and avoid any spaces.

The following screenshot shows the **Package Products | Create a Feature** page with the red banner and the error message, because the version includes a space ("1.0 "):

The screenshot shows the 'Package Products | Create a Feature' page in the FlexNet Operations portal. The page has a navigation bar with links: Home, Entitlements, Licenses, Devices, Usage, Accounts & Users, and Products. A red banner at the top displays an error message: 'The version format is invalid. Please follow the standard format and avoid any spaces. [Incident# 2045-875R]'. Below the banner, the page title is 'Package Products' and the sub-title is 'Create A Feature'. The form contains the following fields:

- Feature Name: AM_Feature1
- Version Format Type: Fixed
- Version: 1.0 (highlighted with a red box)
- Description: Feature with extra space in version number.

Figure 73: The **Package Products | Create a Feature** page with the red banner and error message

Rearranging Features on the Products Page in the Producer Portal

(SWM-22618)

On the **Products** page (under **Products** > **Product** > click a product name), features and feature bundles (on the **Features** tab) can now be sorted based on the date they were added to the product. By default, they are arranged in ascending order (the oldest feature or feature bundle is displayed at the top of the list). The order can be reversed by clicking the header of the **Feature or Feature Bundle Name** column.

The following screenshot shows the **Feature or Feature Bundle Name** column where the order of features can now be changed.

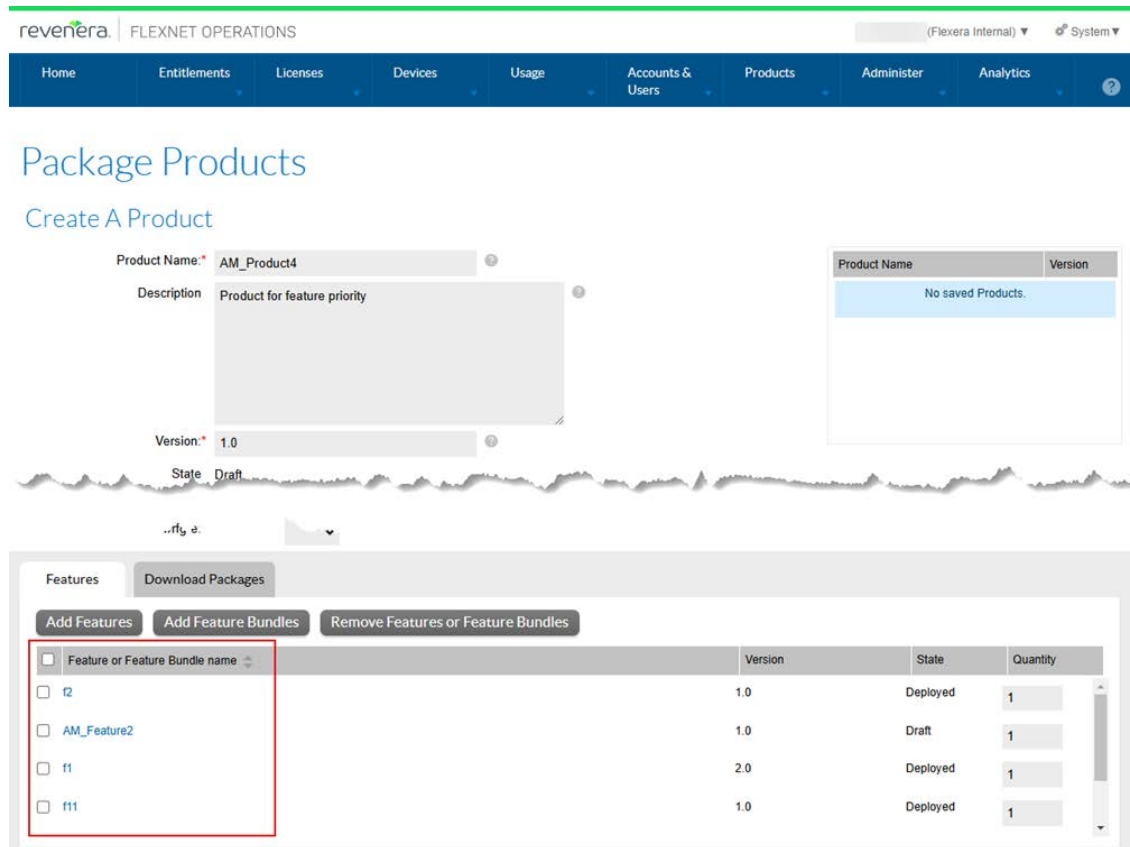


Figure 74: On the **Package Products | Create a Product** page, the order of features can now be changed.



Note - When exporting feature information (using either .jar or Data Import template (.xlt) format), the feature to product linkage is reset to have the timestamp of the import.

Filter "Is remaining copies more than zero?" Now Working as Expected in Producer Portal

(Case 02905595, SWM-25218)

This release resolves an issue with the option **Is remaining copies more than zero?** that is available in the **Advanced search** panel on the **List Entitlements** page. In previous releases, regardless of whether the option was set to **Yes** or **No**, the **List Entitlements** page showed entitlements with copies greater than 0 as well as those with 0 copies.

In the 2025.03 release, the option **Is remaining copies more than zero?** works as expected:

- **Yes**—The **List Entitlements** page shows only entitlements with copies greater than 0.
- **No**—The **List Entitlements** page shows only entitlements with 0 copies.
- **None**—The **List Entitlements** page shows entitlements with copies greater than 0 and those with 0 copies.

The following screenshot shows the option **Is remaining copies more than zero?**:

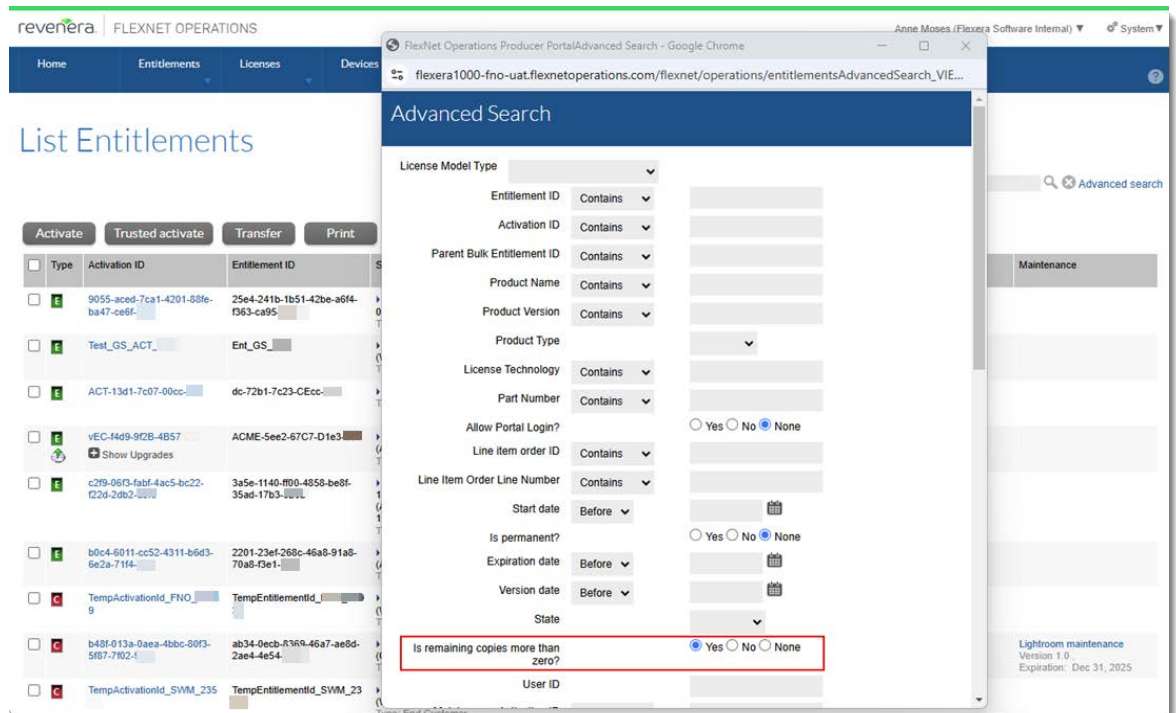


Figure 75: The **Advanced search** panel on the **List Entitlements** page



Note - A related known issue exists for entitlements for Embedded license models, see [SWM-24042: Input Sanitization Disabled](#).

Resolved Discrepancy Between Number of Entitlements in End-User Portal and Producer Portal

(Cases 02979909, 02553109; SWM-24947, SWM-23317)

Previously, when the configuration option **Show Line Items with Zero Copies by Default** (under **System** > **Configure** > **FlexNet Operations** > **General Options**) is unselected, there was a discrepancy between the number of entitlements listed on the **List Entitlements** page in the Producer Portal and on the **List Entitlements** page in the End-User Portal. The reason was a synchronization issue, which meant that entitlements with an available quantity of zero were erroneously displayed on the **List Entitlements** page in the End-User Portal.

This issue no longer occurs, and the **List Entitlements** page shows the correct number of entitlements in both portals.

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Home Entitlements Licenses Devices Usage Accounts & Users Products Administrator Analytics

List Entitlements

Search for Entitlement ID Equals SWM-24947_ent1 Advanced search

Activate Trusted activate Transfer Print View certificate Email Fulfill history Export

Type	Activation ID	Entitlement ID	Sold to	Product	Available quantity	Total quantity	Expiration	License model	Maintenance
☐	db60-a9a3-eb33-42b-a011-145d-b69-	SWM-24947_ent1	Akash_customer_1 (Akash_customer_1) Type: End Customer	SWM-24947_prod3 Version 1, Qty/Copy 1	0	1	PERMANENT	Embedded Counted	
☐	65b5-7388-0145-4d5e-a5ae-28b6-18d5-	SWM-24947_ent1	Akash_customer_1 (Akash_customer_1) Type: End Customer	SWM-24947_prod2 Version 1, Qty/Copy 1	0	2	PERMANENT	Embedded Counted	
☐	b16b-e5ff-f129-4b0c-8aae-2566-704c-	SWM-24947_ent1	Akash_customer_1 (Akash_customer_1) Type: End Customer	SWM-24947_prod1 Version 1, Qty/Copy 1	0	2	PERMANENT	Embedded Counted	

Figure 76: The **List Entitlements** page in the Producer Portal shows entitlements with zero available quantity only when the configuration option **Show Line Items with Zero Copies by Default** is selected.

Home Activation & Entitlements License Support Devices Usage Downloads Accounts & Users

List Entitlements

Anne Moses

Entitlements are listed below. Sort by clicking a column heading. Select specific entitlements to view or perform actions on them.

View Action Export

Page 1
 Activation ID Contains Advanced Search

Type	Activation ID	Entitlement ID	Sold to	Product	Version	Available quantity	Total quantity	Expiration	Order ID	Order line number	Maintenance
☐	8a31-6769-9dce-4fda-959a-842b-e8754	05c9-b317-9fde-476a-a2c5-560c-3dc0	pg_acc (pg_acc) Type: End Customer	p1-metered , Version 1.0	1.0	9982	9990	PERMANENT			
☐	da2a-8d34-108f-4406-9068-c4b4-cd64-	05c9-b317-9fde-476a-a2c5-560c-3dc0	pg_acc (pg_acc) Type: End Customer	ft-p , Version 1.0	1.0	0	999	PERMANENT			
☐	ccb2-3801-6130-4316-b39b-3740-6c73-	bd99-fdc5-e2f3-4541-8480-e9c1-f7e3-	pg_acc (pg_acc) Type: End Customer	auto-p1-ss-2301 , Version 1.0	1.0	0	100	PERMANENT			
☐	f2f4-ef59-6942-42a5-9804-a1d1-7ec5-	8ad8-ae2e-6faa-456f-8b6b-4dba-3d91-	sb_acc (sb_acc) Type: End Customer	ft-p , Version 1.0	1.0	0	100	PERMANENT			

Figure 77: An example of the **List Entitlements** page in the End-User Portal showing entitlements with zero available quantity.

Retriggering Stuck Jobs for Bulk Upgrade Operations

(Case 02969947, SWM-24096)

In the past, jobs for bulk upgrade operations could get stuck with the status “Submitted” or “In Progress”. There was no indication of whether the job was running. Restarting the job server had no impact on the job; it would remain stuck. The only solution for producers was to manually retrigger the job.

This issue has now been resolved. If a job for a bulk upgrade operation gets stuck, restarting the job server triggers a new job which will pick up the work from the original job. This new job is scheduled to run within 2 minutes of the server restart.

Export and Import Issues Resolved in 2025.03

The following issue related to the Data Export and Import functionality was resolved in the 2025.03 release.

Import/Export Jobs No Longer Getting Stuck on Job Server Restart

(Case 02874418, 02902735, 02909549; SWM-21535)

In previous releases, when an import/export job was running and at the same time the job server was restarted, the job was stuck in the "in Process" state and never completed until it was resubmitted.

This behavior was problematic, because producers had to resubmit those stuck import/export jobs, which took up extra time.

This has now been resolved. If an import/export job is in process while a job server restart occurs, that job will be moved to a waiting state so that the next run can pick it up. Producers no longer need to manually resubmit the hanging job.

Security Issues Resolved in 2025.03

The following issue related to FlexNet Operations security was addressed in the 2025.03 release.

Enforcing Account Access Permissions for Portal Users

(SWM-25459)

Previously, users with the Portal User role could access information that they are not entitled to see, by manipulating URL parameters.

In the 2025.03 release, it is no longer possible to access information without the necessary permissions, by manipulating URL parameters.

Issues Resolved in 2025.02

Issues in the following areas were resolved in the FlexNet Operations 2025.02 release:

- [Entitlement Management Issues Resolved in 2025.02](#)
- [Security Issues Resolved in 2025.02](#)
- [User Experience Issues Resolved in 2025.02](#)

Entitlement Management Issues Resolved in 2025.02

The following issues were resolved for entitlement management in the 2025.02 release.

- [Restrict Activations on Expired Line Items for FlexNet Publisher Products](#)
- [Resolved Issue With Entitlement Emails](#)

Restrict Activations on Expired Line Items for FlexNet Publisher Products

(Case 02144139, SWM-23877)

Previously, when an end user attempted to activate an expired FlexNet Publisher line item (using web services or the `appactutil` utility) and that line item had previously been activated on a client, the request erroneously succeeded. The reason for this behavior was that FlexNet Operations located the relevant fulfilment record and treated the activation as a reinstall. However, this behavior resulted in clients being able to continue using the software beyond the license expiration date.

To address this issue, FlexNet Operations now checks the line item expiration date before activation. If a line item has expired then the activation request is denied and an error message is shown.

This change applies to all types of activations (online, offline, manually, or via web services). Other license lifecycle operations such as return, repair, or rehost are not affected.

Resolved Issue With Entitlement Emails

(Case 02988204, 02988951; SWM-25192)

A change introduced in the 2025.01 release caused an issue which meant that no entitlement emails could be sent to end users. When attempting to send an entitlement email, the following error was displayed: Tenant *nnn* does not have an associated publisher/identity.

This issue has now been resolved, and entitlement emails are sent to end users.

Security Issues Resolved in 2025.02

The following issue related to FlexNet Operations security was addressed in the 2025.02 release.

Improved Error Handling for Status 500 Errors

(Case 2889182, SWM-22287)

Previously, status 500 errors could reveal the server hostname in the fault details of the response, which is considered a security risk. Such an error could be triggered by sending a bad request using web services—for example, by attempting to update a user with a typo in the request, like `<urn:lastNam>?</urn:lastName>`.

This issue has now been addressed, and status 500 errors no longer reveal implementation details.

User Experience Issues Resolved in 2025.02

The following issues involving user experience were resolved in the 2025.02 release.

- Increased Download Speed in End-User Portal
- Updated Link to Customer Community
- Removed Truncation in End-User Portal on View Server Page

Increased Download Speed in End-User Portal

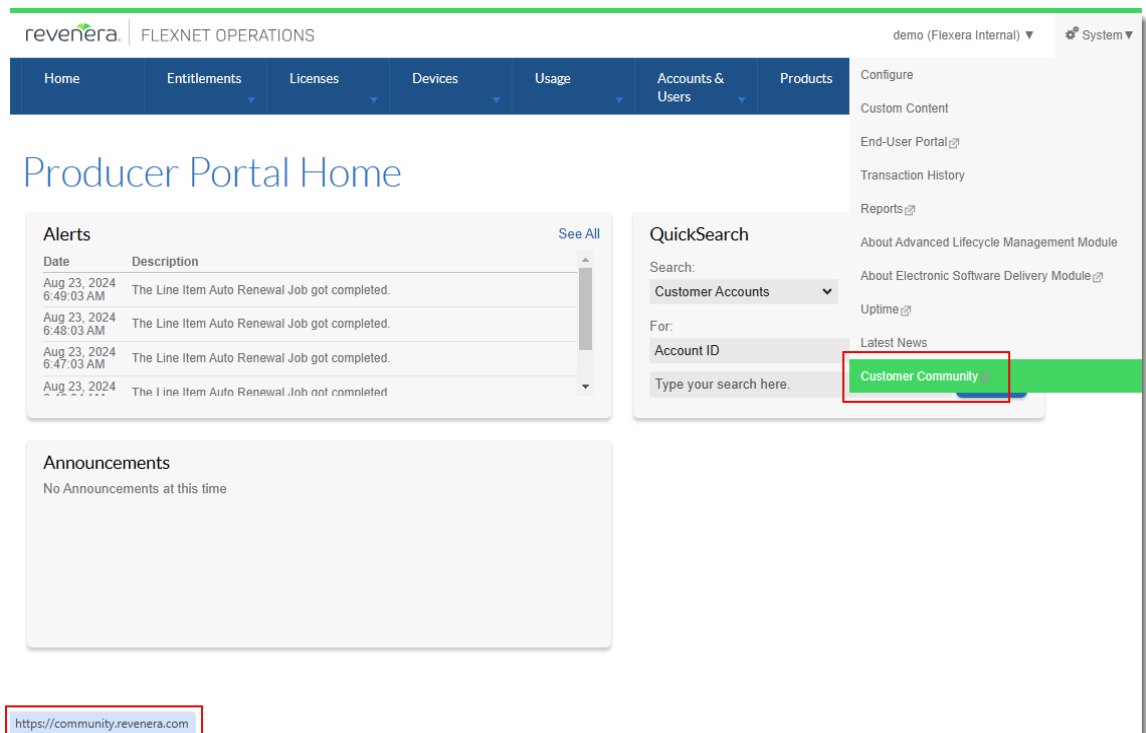
(Case 02776698, SWM-19906)

In the End-User Portal, end users associated with several accounts can now download content more quickly. The syncing process has been optimized, allowing users to access downloads shortly after their accounts and entitlements are provisioned.

Updated Link to Customer Community

(SWM-24485)

Following the recent introduction of the new Revenera Community, the link **Customer Community** (available in the Producer Portal from the **System** menu) has been updated to point to the Community's new URL, <https://community.revenera.com>.



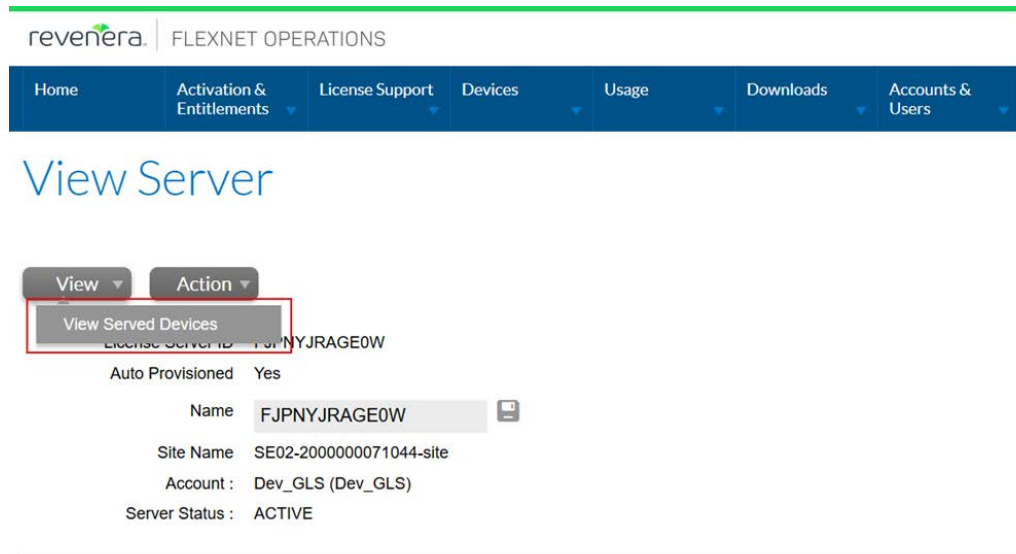
Any users attempting to access the previous URL, <http://flexeracommunity.force.com/customer/>, will be redirected to the new URL.

Removed Truncation in End-User Portal on View Server Page

(Case 02981114, SWM-24922)

Previously, the menu options available from the **View** menu on the **View Server** page in the End-User Portal were truncated on the left side of the screen and not readable. To access the **View Server** page, click **Devices > Devices**, then click the hyperlinked name or ID for a server (Cloud Licensing Service instance or local license server).

The following screenshot shows the fixed menu of the **View Server** page, with the menu options fully visible:



Issues Resolved in 2025.01

Issues in the following areas were resolved in the FlexNet Operations 2025.01 release:

- [Entitlement Management Issues Resolved in 2025.01](#)
- [User Experience Issues Resolved in 2025.01](#)

Entitlement Management Issues Resolved in 2025.01

The following issues were resolved for entitlement management in the 2025.01 release.

- [Request Button Now Triggering Renewal Email](#)
- [Entitlement Line Item Start or Expiry Updated Using "Change Start/Expiration Date" Button Now Reflected on CLS](#)
- [Confirmation Step No Longer Skipped During License Count Update](#)

Request Button Now Triggering Renewal Email

(Case 02890657, SWM-22556)

On the End-User Portal's **Expiring Entitlements** page, end users can click a **Request** button to send an email message to the producer about their intent to renew selected entitlements.

In previous releases, the End-User Portal failed to send such renewal emails. In the 2025.01 release, this issue has been resolved. When an end user clicks the **Request** button, the End-User Portal sends a renewal email to the email address specified in the configuration option **Request Renewal Notification Email** (under **System > Configure > FlexNet Operations > Renewals**). That email address is also used to populate the **From** field. The end user requesting the renewal will receive a copy of the renewal email, as their email address is included in the **Cc** field.



Important ▪ Renewal emails are sent only if the following conditions are fulfilled:

- An email address is specified in the configuration option **Request Renewal Notification Email** (under **System** > **Configure** > **FlexNet Operations** > **Renewals**).
- The email address specified in **Request Renewal Notification Email** has been verified in the Producer Portal on the **Email/Domain Verification** page (available from the **Administer** menu in the **Email** group).

Entitlement Line Item Start or Expiry Updated Using "Change Start/Expiration Date" Button Now Reflected on CLS

(Case 02913332, SWM-24187)

Previously, when an entitlement was mapped to a Cloud Licensing Service (CLS) instance and one of its line items had its start or expiration date changed using the **Change Start/Expiration Date** button on the **Entitle Customers to Licenses | Create an Entitlement** page (under **Entitlements** > **List Entitlements by Order** > click the entitlement's hyperlinked ID), the new start or expiration date was not reflected on the CLS instance. This means that served clients' subsequent capability requests were not aligned with the new start or expiration date.

This issue no longer occurs. An entitlement line item's changed start or expiration date is now immediately reflected on the mapped CLS instance, and can be viewed as follows:

- On the **View Server** page (**Devices** > **Devices** > click a hyperlinked device name > **View** > **View Response**) in the **Capability Response** section.
- Calling the `/features` endpoint.

Confirmation Step No Longer Skipped During License Count Update

(Case 02912962, SWM-24195)

Previously, when removing line items mapped to a local license server or a standalone device, FlexNet Operations was not enforcing the step where a confirmation of changes is needed before quantities on the device are updated, even though the configuration option **Skip Confirmation** or **Skip Confirmation for Producer** was unselected.

The bug occurred when **Generate Response** was triggered on the **View Server** or **Device** page (under **Devices** > **Devices** > click hyperlinked name of a device), which changed the license status to **License generated** and decreased the license count on the device without waiting for the device to confirm the changes. This bypassed the expected **Waiting for confirmation** status, which should remain until the device explicitly sends a confirmation request.

This has been fixed in the 2025.01 release. Clicking **Generate Response** now changes the license status to **Waiting for confirmation**. The license count is only updated on the device after it has sent a capability request to confirm the changes.

The following table shows the behavior and license status when a user clicks **Generate Response** after a license count change, depending on the selection of the **Skip Confirmation** and **Skip Confirmation for Producer** configuration options.

Skip Confirmation	Skip Confirmation for Producer	Behavior in 2025.01
Unselected	Unselected	Status changes to Waiting for confirmation . Once a capability request is sent or uploaded, the status changes to License generated and the license count is updated on the device.
Selected	Selected	Status changes to License generated . Once a capability request is sent or uploaded in the Producer Portal and the End User Portal, the license count is updated on the device.
Selected	Unselected	Status changes to License generated . Once a capability request is sent or uploaded in the Producer Portal or the End User Portal, the license count is updated on the device.
Unselected	Selected	Status changes to License generated . Once a capability request is sent or uploaded in the Producer Portal (and optionally in the End User Portal), the license count is updated on the device.

User Experience Issues Resolved in 2025.01

The following issue involving user experience was resolved in the 2025.01 release.

Configuration Changes Now Updated After Saving

(SWM-22817)

In previous releases, when changing a configuration setting under **Embedded Devices** (under **System > Configure**) and clicking **Save Configs**, the previous setting (either the previous value or selected/unselected state of the check box) was still shown. The updated setting was only visible after clicking **Save Configs** a second time. In addition, after saving changes, the confirmation message “The configuration was updated successfully” was formatted differently to other FlexNet Operations confirmation messages (using a white background instead of a blue banner).

Both issues have been resolved in the 2025.01 release. Changes to configuration settings are now saved and visible after clicking **Save Configs** once, and the confirmation message is formatted as a blue banner.

Known Issues

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

SWM-26453: Secret Question on Forgot Password Page Not Localized

The secret question displayed on the **Forgot Password** page in the End-User Portal is currently not localized.

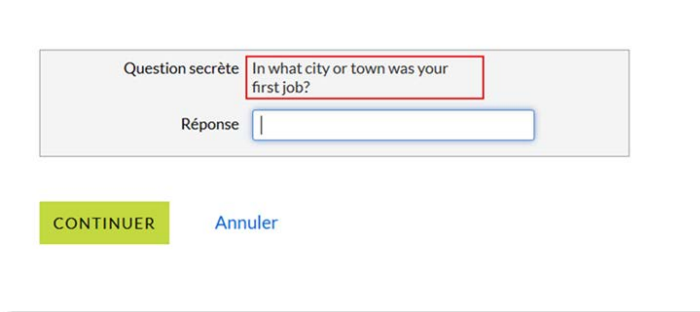
A screenshot of a web form for a 'Forgot Password' page. The form is titled 'Question secrète' and contains a text input field with the placeholder text 'In what city or town was your first job?'. Below the input field is a label 'Réponse' and a text input field. At the bottom of the form are two buttons: 'CONTINUER' (highlighted in green) and 'Annuler' (in blue). The entire form is enclosed in a light gray border.

Figure 78: The secret question is not displayed in the language selected on the End-User Portal's **Login** page.

The system retrieves and displays the security question in the original language it was configured and stored during the user's first login. This behavior persists regardless of the user's selected language preference in subsequent sessions.

SWM-27343: Entitlement Notification Email Line Item Filtering Not Working as Expected

(Case 03047793)

In the 2025.05 release, an enhancement was introduced to allow producers to select individual line items on the **List Entitlement By Orders** page for inclusion in entitlement notification emails, rather than including all line items in the notification email by default. For a description of the enhancement, see [Selecting Individual Line Items in Entitlement Notification Email](#).

However, this functionality does not work as intended. While the email preview correctly displays only the selected line items, the actual email sent to customers includes all line items, ignoring the applied filters.

SWM-24928: Email Addresses for “File Created User Email” Missing in Software Delivery Download History Report

In the Software Delivery Download History report (available from the **Analytics** menu), the **File Details** table is not displaying email addresses in the **File Created User Email** column due to an issue with the field size. As a workaround, the **File Created User Email** column is populated with the same email addresses as those displayed in the **File Uploaded User Email** column, because these email addresses typically are identical.

SWM-24042: Input Sanitization Disabled

(Case 02889178)

The FlexNet Operations 2024.12 release introduced limitations to the characters allowed in certain Producer Portal fields (see [Security Issues Resolved in 2024.12](#)). The following special characters were no longer allowed in a number of input fields to protect against injection attacks:

[: < > { } @ ; = \ , ! / | ? " # \$ % ~ ^ ` ']

This functionality has now been disabled to allow further impact assessment. This means that the character restrictions placed on fields listed in [Security Issues Resolved in 2024.12](#) are no longer in force.

SWM-23586: Hanging Bulk Operation Jobs Not Showing “Failed” Status

A fix made in the 2024.11 release (see description [Import/Export Jobs Terminated Upon Job Server Restart](#)) has been reverted for bulk operations. The fix remains in place for import/export jobs.

This means that any bulk operation jobs that hang when the job server is restarted are not terminated and are not automatically retriggered.

SWM-19547: Download Search Page in End-User Portal Not Filtering Expired Accounts

In the End-User Portal, on the **Download Search** page (available from **Downloads > Search Downloads**), the **Choose Account** dropdown list does not filter out expired accounts. Instead, it erroneously displays expired and non-expired accounts.



Note - The **Choose Account** dropdown list is only displayed if the user belongs to more than one account that is entitled to downloads.

SWM-15171: Auto-Fulfill Failing During Large Bulk Upgrade Jobs

Auto-fulfill might fail in bulk upgrade jobs that contain more than 2200 line items.

SSRE-20257: Upload of Large File Images Failing

The upload of file images that exceed 1 GB using HTTP upload fails. For large file images, Revenera recommends using FTP upload.

SWM-19052: Feature Count Aggregation Not Working As Expected

If a feature's aggregation type is changed, the relevant instance of the Cloud Licensing Service might not update the aggregated feature counts according to the new aggregation type.

However, if the entitlement for the product that contains the features is mapped to a new Cloud Licensing Service instance, the feature counts are aggregated correctly as per the new aggregation type.

FNO-69836: Variables in Vendor String Causing License Activation Issues

License activation fails for product upgrades or normal license activation when the product to be upgraded or activated is associated with a feature that has a vendor string which contains substitution variables that are enclosed in double quotes (for example, "activationId":{"EntitlementLineItem.activationId"}).

FNO-69338: Navigation in Package Products Pages Skipping Review Features Page

When the user navigates through the Package Products pages (under **Products > Features**) using the **Next** button at the bottom of each page, the Review Features and Review Feature Bundles pages are erroneously skipped.

As a workaround, users who want to review the features and feature bundles that they just added can click the **Review Features** and **Review Feature Bundles** links, respectively, in the Packaging Guide section at the bottom of the page to access the Review Features page.

SWM-15870: Mismatch Between User Name and Email Address Causing Issues with ESD (UserOrgHierarchyService)

When creating a user via the UserOrgHierarchyService web service (the predecessor of the User Account Hierarchy Service web service), it is possible to have different values for user name and email address. However, users whose user name and email address do not match cannot access downloads in the End-User Portal.

Producers who use the UserOrgHierarchyService should use the methods from the User Account Hierarchy Service web service to avoid a mismatch between the user name and email address.



Note • The following changes have recently been made to the User Account Hierarchy Service web service:

- From the 2023.07 release onwards, it is not possible to create users with a mismatched user name and email address. See “createUser Operation in User Account Hierarchy Service Web Service No Longer Allows Mismatch Between User Name and Email Address” in the [FlexNet Operations 2023 Release Notes](#).
- From the 2023.10 release onwards, users cannot update their email address to be different from their user name. See “updateUser Operation in User Account Hierarchy Service Web Service No Longer Allows Mismatch Between User Name and Email Address” in the [FlexNet Operations 2023 Release Notes](#).

FNO-69182: Incorrect Email Format Accepted When Creating User Via Import Template

It is possible to create or update a user with an invalid email address format by importing user information using the Account and User import template (downloadable from **Administer > Import Data Objects > Data Import Templates** in the Producer Portal). Email addresses of the format abcd@ef (that is, an email address consisting of a recipient name, @ symbol and domain name but without top-level domain) are erroneously accepted.

FNO-68962: Invalid Characters in Device ID Causing Issues

When the FlexNet Embedded toolkit creates a device ID that contains an invalid character, an error occurs.

The following control characters are not allowed in device names or the device ID:

^B ^D ^E ^G ^N ^O ^P ^Q ^R ^S ^T ^U ^W ^X ^Y ^[^\ ^] ^F ^C ^^ ^A ^V ^_

SWM-10701: Search Functionality in End-User Portal Erroneously Displays Download Link

In the End-User Portal, users who should be denied access to a file based on their geographical location are able to display the download link for a restricted file when searching for the file name (using the Search function with the **Files** option on the **Download Search** page). However, users are not able to download the restricted file.

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.” Then, 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-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

If a user has provided a file’s expected SHA2 checksum value for an upload and the file image is subsequently deleted, the **Upload File** page, when opened again, might show the SHA2 checksum value of the previously loaded file image.

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-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.

Special Notes

This section contains special information pertaining to FlexNet Operations.

- [Communication of Changes in Data Access API, Data Share, and Analytics](#)
- [Plug-in Upgrade Needed for High-Speed File Uploads](#)

- [Handling UI Conflicts When Using a Custom CSS for the End-User Portal](#)

Communication of Changes in Data Access API, Data Share, and Analytics

(SWM-27132)

Reverera is committed to addressing customer requests and enhancement suggestions by expanding the existing Data Access API, the Data Share, and Analytics functionality. Starting with the 2025.06 release, any modifications resulting from these requests will be managed and communicated as follows.

Refer to the following sections for details:

- [Addition of Fields and Columns](#)
- [Examples for Additional Columns](#)
- [Modification or Removal of Fields and Columns](#)
- [Examples for Removing or Changing Columns](#)
- [Consumer Implementation Requirements](#)

Addition of Fields and Columns

Any additional fields or columns required for enhancing data accessibility or extending functionality will be incorporated directly into the existing version of the Data Access API and Data Share views.

There is no impact on the Analytics functionality, as any newly added fields will not appear in reports by default. Customers can choose to include them as needed.

These changes will not be announced prior to implementation; however, any schema modifications will be documented and communicated through release notes.

Examples for Additional Columns

This section provides examples illustrating how new fields will appear in:

- [Data Share](#)
- [Data Access API](#)
- [Analytics](#)

Data Share

The following screenshots show examples for additional columns in the Data Share.

	# REF_ID	# TENANT_ID	# ID	# DEVICE_NAME	# DEVICE_TYPE	# MACHINE_TYPE	# DEVICE_ALIAS	# SITE_NAME	# STATUS
1	2838310	1129	3102751	60386361	SERVED_CLIENT	UNKNOWN	60386361	Default hosted server	ACTIVE
2	2217646	1129	2607230	59307571	SERVED_CLIENT	UNKNOWN	59307571		ACTIVE
3	2838311	1129	3084355	79610657	SERVED_CLIENT	UNKNOWN	79610657	Default hosted server	ACTIVE
4	2217647	1129	2552053	63331801	SERVED_CLIENT	UNKNOWN	63331801		ACTIVE
5	2838312	1129	3115937	80173757	SERVED_CLIENT	UNKNOWN	80173757	Default hosted server	ACTIVE
6	2217648	1129	2531797	64821371	SERVED_CLIENT	UNKNOWN	64821371		ACTIVE
7	2838313	1129	3103001	80014637	SERVED_CLIENT	UNKNOWN	80014637	Default hosted server	ACTIVE
8	2217649	1129	2615964	67393521	SERVED_CLIENT	UNKNOWN	67393521		ACTIVE
9	2838314	1129	3072269	79417197	SERVED_CLIENT	UNKNOWN	79417197	Default hosted server	ACTIVE

Figure 79: An example view of SEC_VW_DEVICE before a change.

#	REF_ID	TENANT_ID	ID	DEVICE_NAME	DEVICE_TYPE	MACHINE_TYPE	DEVICE_ALIAS	SITE_NAME	DEVICE_CREATED_BY	DEVICE_UPDATED_BY	ADDON_CREATED_BY	ADDON_UPDATED_BY
1	2838310	1129	3102751	60386361	SERVED_CLIENT	UNKNOWN	60386361	Default hosted server	Changning.Dong1@cbc.com#FLXNet	null		
2	2217646	1129	2607236	59307571	SERVED_CLIENT	UNKNOWN	59307571		web-service-frog@cbc.com#FLXNet	web-service-frog@cbc.com#FLXNet		
3	2838311	1129	3084355	79810857	SERVED_CLIENT	UNKNOWN	79810857	Default hosted server	web-service-frog@cbc.com#FLXNet			
4	2217647	1129	2552059	63331801	SERVED_CLIENT	UNKNOWN	63331801		null	null		
5	2838312	1129	3115937	80173757	SERVED_CLIENT	UNKNOWN	80173757	Default hosted server	dhruvshah@cbc.com#FLXNet			
6	2217648	1129	2531797	64821971	SERVED_CLIENT	UNKNOWN	64821971		web-service-frog@cbc.com#FLXNet			
7	2838313	1129	3103001	80014637	SERVED_CLIENT	UNKNOWN	80014637	Default hosted server	null	null		
8	2217649	1129	2615984	67395521	SERVED_CLIENT	UNKNOWN	67395521		null	null		
9	2838314	1129	3072289	79417187	SERVED_CLIENT	UNKNOWN	79417187	Default hosted server	web-service-frog@cbc.com#FLXNet			

Figure 80: An example view of SEC_VW_DEVICE after columns have been added, with additions highlighted.

Data Access API

The following screenshots show examples for additional fields in the **device** data set of the Data Access API.

```
{
  "DeviceID": "1",
  "DeviceType": "SERVER",
  "DeviceMachineType": "UNKNOWN",
  "Alias/Device Name": "ALM_CHS1",
  "SiteName": "",
  "Status": "ACTIVE",
  "Type": "FLX_SERVER",
  "VMName": "",
  "IDType": "STRING",
  "BackupDeviceID": "",
  "PublisherName": "fnetest",
  "DeviceSeries": "",
  "Notes": "",
  "DeviceUserEmail": "",
  "DeviceAccountID": "anand_cust",
  "DeviceAccountName": "anand_cust",
  "LastModifiedDate": "2025-02-05 00:46:34.510",
  "CreateDate": "2023-01-05 01:42:52.743",
  "ConsumedCountDelta": "10",
  "EntitlementID": "d304-d112-67a6- -39fc-ad8e-aa20",
  "QtyOnDevice": "10",
  "LicenseStatus": "LICENSE_GENERATED",
  "ActivationID": "2d5c-7a1d- -1-8750-5474-6fb4-e287",
  "ActiveActivation": "1",
  "BaseProduct": "",
  "ProductName": "AutoProvisionedAnand",
  "ProductVersion": "1.0",
  "PartNumber": "",
  "IsPermanent": "Yes",
  "ExpirationDate": "9999-12-31 00:00:00.000",
  "VendorDictionary": "",
  "ProductDeleted": "N",
  "ActivationDeleted": "N",
  "UserDeleted": "N",
  "AccountDeleted": "N",
  "DeviceDeleted": "N"
}
```

Figure 81: An example view of the **device** dataset before a change.



Figure 82: An example view of the **device** dataset after fields have been added, with additions highlighted.

Analytics

The following screenshot shows an example of the Devices Details table and newly added columns.

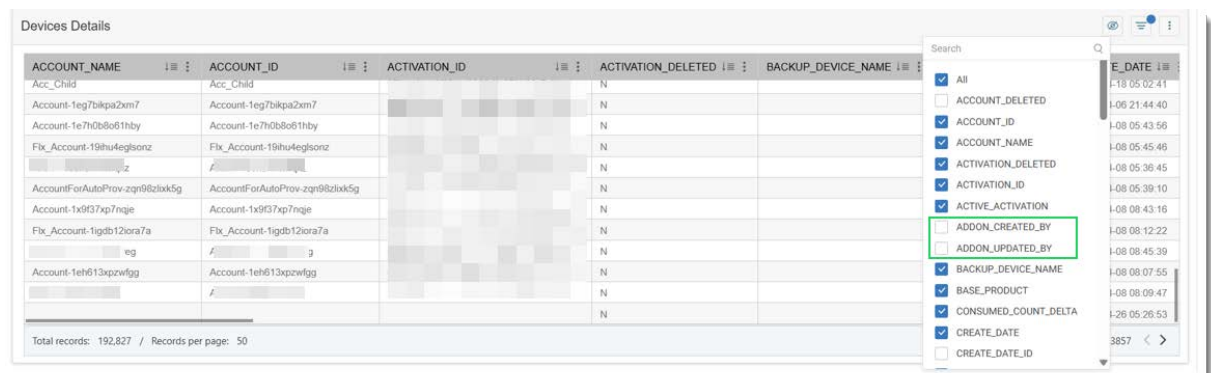


Figure 83: An example view of the Devices Details table in Analytics, with newly added columns being unselected by default.

Modification or Removal of Fields and Columns

If any fields or columns need to be modified or deprecated due to architectural changes, compliance updates, or optimization efforts, a structured communication approach will be followed:

- Stakeholders will be informed well in advance through official communication channels (release notes, documentation updates).
- Depending on the nature of the update, a new API version will be introduced.
- Legacy versions will be maintained for a defined period to facilitate migration.

Examples for Removing or Changing Columns

This section provides examples illustrating the removal of columns or fields in:

- [Data Share](#)
- [Data Access API](#)

Data Share

As an example, the following screenshots shows the renaming of the DEVICE_ALIAS column to DEVICE_DISPLAY_NAME and the deletion of the MACHINE_TYPE column in the Data Share.

	# REF_ID	A TENANT_ID	# ID	A DEVICE_NAME	A DEVICE_TYPE	A MACHINE_TYPE	A DEVICE_ALIAS	A SITE_NAME
1	2838310	1129	3102751	60386361	SERVED_CLIENT	UNKNOWN	60386361	Default hosted server
2	2217646	1129	2607236	59307571	SERVED_CLIENT	UNKNOWN	59307571	Default hosted server
3	2838311	1129	3084355	79610557	SERVED_CLIENT	UNKNOWN	79610557	Default hosted server
4	2217647	1129	2552053	63331801	SERVED_CLIENT	UNKNOWN	63331801	Default hosted server
5	2838312	1129	3115937	80173757	SERVED_CLIENT	UNKNOWN	80173757	Default hosted server
6	2217648	1129	2531797	64821371	SERVED_CLIENT	UNKNOWN	64821371	Default hosted server
7	2838313	1129	3103001	80014837	SERVED_CLIENT	UNKNOWN	80014837	Default hosted server
8	2217649	1129	2615964	67393521	SERVED_CLIENT	UNKNOWN	67393521	Default hosted server
9	2838314	1129	3072269	79417197	SERVED_CLIENT	UNKNOWN	79417197	Default hosted server

Figure 84: An example view of SEC_VW_DEVICE before removing the MACHINE_TYPE column and changing the name of the DEVICE_ALIAS column.

	# REF_ID	A TENANT_ID	# ID	A DEVICE_NAME	A DEVICE_TYPE	A DEVICE_DISPLAY_NAME	A SITE_NAME
1	2838310	1129	3102751	60386361	SERVED_CLIENT	60386361	Default hosted server
2	2217646	1129	2607236	59307571	SERVED_CLIENT	59307571	Default hosted server
3	2838311	1129	3084355	79610557	SERVED_CLIENT	79610557	Default hosted server
4	2217647	1129	2552053	63331801	SERVED_CLIENT	63331801	Default hosted server
5	2838312	1129	3115937	80173757	SERVED_CLIENT	80173757	Default hosted server
6	2217648	1129	2531797	64821371	SERVED_CLIENT	64821371	Default hosted server
7	2838313	1129	3103001	80014837	SERVED_CLIENT	80014837	Default hosted server
8	2217649	1129	2615964	67393521	SERVED_CLIENT	67393521	Default hosted server
9	2838314	1129	3072269	79417197	SERVED_CLIENT	79417197	Default hosted server

Figure 85: The same view of SEC_VW_DEVICE, where the MACHINE_TYPE column has been removed. The DEVICE_ALIAS column has been renamed to DEVICE_DISPLAY_NAME.

Data Access API

This screenshot illustrates the following modifications in the Data Access API:

- changing **DeviceAlias** to **DeviceDisplayName** and
- deleting the key **DeviceMachineType**.

```
{
  "DeviceID": " ",
  "DeviceType": "SERVER",
  "DeviceMachineType": "UNKNOWN",
  "DeviceAlias": "ALM_CMS1",
  "SiteName": "",
  "Status": "ACTIVE",
  "Type": "FLX_SERVER",
  "VMName": "",
  "IDType": "STRING",
  "BackupDeviceID": "",
  "PublisherName": "fnetest",
  "DeviceSeries": "",
  "Notes": "",
  "DeviceUserEmail": "",
  "DeviceAccountID": "anand_cust",
  "DeviceAccountName": "anand_cust",
  "LastModifiedDate": "2025-02-05 00:46:34.510",
  "CreateDate": "2023-01-05 01:42:52.743",
  "ConsumedCountDelta": "10",
  "EntitlementID": " ",
  "QtyOnDevice": "10",
  "LicenseStatus": "LICENSE_GENERATED",
  "ActivationID": " ",
  "ActiveActivation": "1",
  "BaseProduct": "",
  "ProductName": "AutoProvisionedAnand",
  "ProductVersion": "1.0",
  "PartNumber": "",
  "IsPermanent": "Yes",
  "ExpirationDate": "9999-12-31 00:00:00.000",
  "VendorDictionary": "",
  "ProductDeleted": "N",
  "ActivationDeleted": "N",
  "UserDeleted": "N",
  "AccountDeleted": "N",
  "DeviceDeleted": "N"
},
```

Figure 86: An example view of the **device** dataset before renaming and removing fields.

```

{
  "DeviceID": "[REDACTED]",
  "DeviceType": "SERVER",
  "DeviceDisplayName": "ALM_CMS1",
  "SiteName": "",
  "Status": "ACTIVE",
  "Type": "FLX_SERVER",
  "VMName": "",
  "IDType": "STRING",
  "BackupDeviceID": "",
  "PublisherName": "fnetest",
  "DeviceSeries": "",
  "Notes": "",
  "DeviceUserEmail": "",
  "DeviceAccountID": "anand_cust",
  "DeviceAccountName": "anand_cust",
  "LastModifiedDate": "2025-02-05 00:46:34.510",
  "CreateDate": "2023-01-05 01:42:52.743",
  "ConsumedCountDelta": "10",
  "EntitlementID": "[REDACTED]",
  "QtyOnDevice": "10",
  "LicenseStatus": "LICENSE_GENERATED",
  "ActivationID": "[REDACTED]",
  "ActiveActivation": "1",
  "BaseProduct": "",
  "ProductName": "AutoProvisionedAnand",
  "ProductVersion": "1.0",
  "PartNumber": "",
  "IsPermanent": "Yes",
  "ExpirationDate": "9999-12-31 00:00:00.000",
  "VendorDictionary": "",
  "ProductDeleted": "N",
  "ActivationDeleted": "N",
  "UserDeleted": "N",
  "AccountDeleted": "N",
  "DeviceDeleted": "N"
},

```

Figure 87: An example view of the **device** dataset where fields have been renamed and removed.

Consumer Implementation Requirements

To avoid any integration breakage, customers are required to implement their consumers as follows:

- Ensure consumers ignore unknown fields or column in the Data Access API and Data Share.
- Adopt robust parsing logic to improve data integrity, such as using keys and names instead of relying on indexes or hard-coded structures.

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.

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](#)).

SOAP API Change Log

The following sections describe the changes that have been made to the FlexNet Operations SOAP API in the FlexNet Operations 2025 releases to date:

- [Change Log for 2025.11](#)
- [Change Log for 2025.09](#)
- [Change Log for 2025.07](#)
- [Change Log for 2025.06](#)
- [Change Log for 2025.05](#)
- [Change Log for 2025.02](#)

Change Log for 2025.11

The following SOAP API changes were made in 2025.11:

- [Entitlement Order Service Now Accepts Multiple Account Names](#)

Entitlement Order Service Now Accepts Multiple Account Names

In the EntitlementOrderService SOAP web service (versions 8 and 9), a new accountUnitNameList parameter was added that accepts multiple account names.

In the 2025.10 release, a regression was identified in certain EntitlementOrderService operations where using the accountUnitName query parameter with the EQUALS operator could incorrectly trigger an error if the specified account name contained a space.

To address the regression, versions 8 and 9 of EntitlementOrderService now use the newly introduced accountUnitNameList parameter, which accepts multiple account names. Customers can provide multiple account unit names using repeated <urn:value>?</urn:value> elements.

The following operations were impacted:

- getActivatableItemCount
- getActivatableItemsQuery
- getEntitlementLineItemPropertiesQuery

To implement this change, the following file was modified:

- [entitlementLineItemTypes.xsd](#)



Note - This enhancement was tracked in SWM-29389.

entitlementLineItemTypes.xsd

The following changes/additions were made to the entitlementLineItemTypes.xsd file. Changes and additions are highlighted.

Change

- 1 <xs:complexType name="searchActivatableItemDataType">
 <xs:sequence>
 <xs:element name="parentBulkEntitlementId" type="tns:SimpleQueryType" minOccurs="0"/>
 <xs:element name="entitlementId" type="tns:SimpleQueryType" minOccurs="0"/>
 <xs:element name="activationIds" type="tns:activationIdList" minOccurs="0" />
 . . .
 <xs:element name="allowPortalLogin" type="xs:boolean" minOccurs="0"/>
 <xs:element name="accountUnitName" type="tns:PartnerTierQueryType" minOccurs="0"/>
 <xs:element name="accountUnitNameList" type="tns:AccountNamesQueryType" minOccurs="0"/>
 <xs:element name="currentOwnerName" type="tns:SimpleQueryType" minOccurs="0"/>
 </xs:sequence>
</xs:complexType>

Change Log for 2025.09

The following SOAP API changes were made in 2025.09:

- Ability to Retrieve Devices Not Associated to Any Account



Note - This enhancement was tracked in SWM-21765.

Ability to Retrieve Devices Not Associated to Any Account

In the ManageDeviceService SOAP web service (version 7), a new enum value IS_EMPTY has been added to the simpleSearchType to enable searching for devices/servers where soldToAcctId is blank (devices/servers that are not associated to any account).

To implement this change, the following file was modified:

- manageDeviceTypes.xsd

manageDeviceTypes.xsd

The following change was made to the manageDeviceTypes.xsd file. Additions are highlighted.

Change

- 1 <xs:simpleType name="simpleSearchType">
 <xs:restriction base="xs:NMTOKEN">
 <xs:enumeration value="STARTS_WITH"/>
 <xs:enumeration value="CONTAINS"/>
 <xs:enumeration value="ENDS_WITH"/>
 <xs:enumeration value="EQUALS"/>
 <xs:enumeration value="IS_EMPTY"/>
 </xs:restriction>
</xs:simpleType>

Change Log for 2025.07

The following SOAP API changes were made in 2025.07:

- [Change Log: Ability to Exclude Expired Activations](#)



Note ▪ This enhancement was tracked in SWM-27421.

Change Log: Ability to Exclude Expired Activations

In the EntitlementOrderService, a new optional input query parameter named excludeExpired has been introduced for the getEntitlementLineItemPropertiesQuery to enable you to exclude expired activations from search results.

- **True**—When excludeExpired is set to true, all expired activations—those with expiration dates earlier than the current local date—will be excluded from the results.
- **False**—If excludeExpired is omitted or set to false, all activations, including expired ones, will be included.

To implement this change, the EntitlementOrderService’s associated [entitlementLineItemTypes.xsd](#) file has been updated.

entitlementLineItemTypes.xsd

In the entitlementLineItemTypes.xsd file, the following changes were made. Additions are highlighted.

#	Change
1	<pre><xs:complexType name="searchActivatableItemDataType"> <xs:sequence> <xs:element name="parentBulkEntitlementId" type="tns:SimpleQueryType" minOccurs="0"/> <xs:element name="entitlementId" type="tns:SimpleQueryType" minOccurs="0"/> <xs:element name="activationIds" type="tns:activationIdList" minOccurs="0" /> <xs:element name="productName" type="tns:SimpleQueryType" minOccurs="0"/> . . . <xs:element name="activatableItemOwnersSearch" type="tns:ActivatableItemOwnersType" minOccurs="0"/> <xs:element name="excludeExpired" type="xs:boolean" minOccurs="0"/> </xs:sequence> </xs:complexType></pre>

Change Log for 2025.06

The following SOAP API changes were made in 2025.06:

- [Change Log: New API Commands to Report Custom Attributes for Entitlements and Line Items](#)
- [Change Log: Optional vendorAuthString parameter in getFeaturesQueryRequest API in ProductPackagingService v3](#)

Change Log: New API Commands to Report Custom Attributes for Entitlements and Line Items

The 2025.06 release introduced a number of enhancements that enables users to search using specific custom entitlement attributes when using the SOAP API `getActivatableItemsQuery` command in the `EntitlementOrderService.wsdl`. The new API command returns all entitlements and line items with their custom attributes. Previously, the request only supported searching using custom license attributes.

To implement these new actions, the `EntitlementOrderService.wsdl` file and its associated `.xsd` files have been updated from v8 to v9:

```
/schema-public/v9/EntitlementOrderService.wsdl
/schema-public/v9/bulkEntitlementTypes.xsd
/schema-public/v9/commonEntitlementTypes.xsd
/schema-public/v9/commonIdentifierTypes.xsd
/schema-public/v9/commonTypes.xsd
/schema-public/v9/entitlementLifeCycleTypes.xsd
/schema-public/v9/entitlementLineItemTypes.xsd
/schema-public/v9/entitlementOrderTypes.xsd
/schema-public/v9/simpleEntitlementTypes.xsd
```

In addition to updating the version, additions were made to the following files:

- `EntitlementOrderService.wsdl`
- `entitlementLineItemTypes.xsd`
- `entitlementOrderTypes.xsd`
- `entitlementAttributeTypes.xsd`, a new `.xsd` file that was added in this release



Note ▪ This enhancement was tracked in SWM-19774 (see also [New API Commands to Report Custom Attributes for Entitlements and Line Items](#)).

EntitlementOrderService.wsdl

In addition to updating the version number from 8 to 9 in multiple locations in the ManageDeviceService.wsdl file, the following additional changes were made. Additions are highlighted.

#	Change
1	<pre><message name="unlinkMaintenanceLineItemResponse"> <part name="msgparameters" element="tns:unlinkMaintenanceLineItemResponse"/> </message> <message name="searchEntitlementAttributeRequest"> <part name="msgparameters" element="tns:searchEntitlementAttributeRequest"/> </message> <message name="searchEntitlementAttributeResponse"> <part name="msgparameters" element="tns:searchEntitlementAttributeResponse"/> </message> <message name="getEntitlementAttributeCountRequest"> <part name="msgparameters" element="tns:getEntitlementAttributeCountRequest"/> </message> <message name="getEntitlementAttributeCountResponse"> <part name="msgparameters" element="tns:getEntitlementAttributeCountResponse"/> </message></pre>
2	<pre><operation name="unlinkMaintenanceLineItem"> <input message="tns:unlinkMaintenanceLineItemRequest"/> <output message="tns:unlinkMaintenanceLineItemResponse"/> </operation> <operation name="getEntitlementsAttributeQuery"> <input message="tns:searchEntitlementAttributeRequest"/> <output message="tns:searchEntitlementAttributeResponse"/> </operation> <operation name="getEntitlementAttributeCount"> <input message="tns:getEntitlementAttributeCountRequest"/> <output message="tns:getEntitlementAttributeCountResponse"/> </operation></pre>
3	<pre><operation name="getEntitlementsQuery"> <soap:operation style="document"/> <input> <soap:body use="literal" /> </input> <output> <soap:body use="literal" /> </output> </operation> <operation name="getEntitlementsAttributeQuery"> <soap:operation style="document"/> <input> <soap:body use="literal" /> </input> <output> <soap:body use="literal" /> </output> </operation></pre>

Change

```
4 <operation name="getEntitlementCount">
    <soap:operation style="document"/>
    <input>
        <soap:body use="literal" />
    </input>
    <output>
        <soap:body use="literal" />
    </output>
</operation>
<operation name="getEntitlementAttributeCount">
    <soap:operation style="document"/>
    <input>
        <soap:body use="literal" />
    </input>
    <output>
        <soap:body use="literal" />
    </output>
</operation>
```

entitlementLineItemTypes.xsd

In addition to updating the version number from 8 to 9 in the entitlementLineItemTypes.xsd file, the following additional changes were made. Additions are highlighted.

Change

```
1 <xs:element name="sortBy" type="tns:activatableItemsSortBy" minOccurs="0"/>
  <xs:element name="isEmbeddedLicenseModel" type="xs:boolean" minOccurs="0"/>
  <xs:element name="lineItemState" type="tns:StateQueryType" minOccurs="0"/>
  <xs:element name="soldToDisplayName" type="tns:SimpleQueryType" minOccurs="0"/>
  <xs:element name="productLine" type="tns:SimpleQueryType" minOccurs="0"/>
  <xs:element name="expiresIn" type="tns:DurationType" minOccurs="0"/>
  <xs:element name="activatableItemOwnersSearch" type="tns:ActivatableItemOwnersType" minOccurs="0"/>

2 <xs:element name="fetchCreatedBy" type="xs:boolean" minOccurs="0"/>
  <xs:element name="fetchLastModifiedBy" type="xs:boolean" minOccurs="0"/>
  <xs:element name="activatableItemOwners" type="xs:boolean" minOccurs="0"/>

3 <xs:element name="transferredFromLineItem" type="xs:string" minOccurs="0"/>
  <xs:element name="splitFromLineItem" type="xs:string" minOccurs="0"/>
  <xs:element name="activatableItemOwners" type="tns:ActivatableItemOwnersType" minOccurs="0"/>

4 <xs:element name="unlinkMaintenanceLineItemRequest" type="tns:unlinkMaintenanceLineItemRequestType"/>
  <xs:element name="unlinkMaintenanceLineItemResponse" type="tns:unlinkMaintenanceLineItemResponseType"/>

  <xs:complexType name="ActivatableItemOwnersType">
      <xs:sequence>
          <xs:element name="activatableItemOwner" type="xs:string" minOccurs="0" maxOccurs="unbounded"/>
      </xs:sequence>
  </xs:complexType>
```

entitlementOrderTypes.xsd

In addition to updating the version number from 8 to 9 in the entitlementOrderItemTypes.xsd file, the following additional changes were made. Additions are highlighted.

#	Change
---	--------

- | | |
|---|--|
| 1 | <code><xs:include schemaLocation="../../schema-public/v9/entitlementLifeCycleTypes.xsd"/></code>
<code><xs:include schemaLocation="../../schema-public/v9/entitlementAttributeTypes.xsd"/></code> |
|---|--|

entitlementAttributeTypes.xsd

The entitlementAttributeTypes.xsd file has been added in this release. It contains the following Elements:

```
<xs:complexType name="searchEntitlementAttributeDataType">
  <xs:sequence>
    <xs:element name="entitlementId" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="activationIds" type="tns:activationIdList" minOccurs="0" />
    <xs:element name="entDescription" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="productName" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="productVersion" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="productType" type="tns:ProductType" minOccurs="0"/>
    <xs:element name="partNumber" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="isBulk" type="xs:boolean" minOccurs="0"/>
    <xs:element name="soldTo" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="shipToEmail" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="contactEmail" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="shipToAddress" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="emailTemplateVariation" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="startDate" type="tns:DateQueryType" minOccurs="0"/>
    <xs:element name="isPermanent" type="xs:boolean" minOccurs="0"/>
    <xs:element name="expirationDate" type="tns:DateQueryType" minOccurs="0"/>
    <xs:element name="isAutoRenewal" type="xs:boolean" minOccurs="0"/>
    <xs:element name="renewalInterval" type="tns:DurationType" minOccurs="0"/>
    <xs:element name="renewalExpirationDate" type="tns:DateQueryType" minOccurs="0"/>
    <xs:element name="createdOn" type="tns:DateQueryType" minOccurs="0"/>
    <xs:element name="versionDate" type="tns:DateQueryType" minOccurs="0"/>
    <xs:element name="lastModifiedDate" type="tns:DateQueryType" minOccurs="0"/>
    <xs:element name="description" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="state" type="tns:StateQueryType" minOccurs="0"/>
    <xs:element name="licenseTechnology" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="createdUserId" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="accountUnitName" type="tns:PartnerTierQueryType" minOccurs="0"/>
    <xs:element name="currentOwnerName" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="maintStartDate" type="tns:DateQueryType" minOccurs="0"/>
    <xs:element name="maintIsPermanent" type="xs:boolean" minOccurs="0"/>
    <xs:element name="maintExpirationDate" type="tns:DateQueryType" minOccurs="0"/>
    <xs:element name="entitlementAttributes" type="tns:entCustomAttributesQueryListType"
  minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="entitlementAttributeDataType">
  <xs:choice>
```

```

        <xs:element name="simpleEntitlement" type="tns:simpleEntitlementDataType" minOccurs="0"/>
        <xs:element name="bulkEntitlement" type="tns:bulkEntitlementDataType" minOccurs="0" />
    </xs:choice>
</xs:complexType>

<xs:complexType name="searchEntitlementAttributeRequestType">
    <xs:sequence>
        <xs:element name="entitlementAttributeSearchCriteria"
type="tns:searchEntitlementAttributeDataType"/>
        <xs:element name="batchSize" type="xs:integer"/>
        <xs:element name="pageNumber" type="xs:integer" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="searchEntitlementAttributeResponseType">
    <xs:sequence>
        <xs:element name="statusInfo" type="tns:StatusInfoType"/>
        <xs:element name="entitlement" type="tns:entitlementAttributeDataType" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="getEntitlementCountAttributeRequestType">
    <xs:sequence>
        <xs:element name="queryParams" type="tns:searchEntitlementAttributeDataType"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="getEntitlementCountAttributeResponseType">
    <xs:sequence>
        <xs:element name="statusInfo" type="tns:StatusInfoType"/>
        <xs:element name="count" type="xs:integer" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:element name="searchEntitlementAttributeRequest" type="tns:searchEntitlementAttributeRequestType"/>
<xs:element name="searchEntitlementAttributeResponse" type="tns:searchEntitlementAttributeResponseType"/>
<xs:element name="getEntitlementAttributeCountRequest"
type="tns:getEntitlementCountAttributeRequestType"/>
<xs:element name="getEntitlementAttributeCountResponse"
type="tns:getEntitlementCountAttributeResponseType"/>

```

Change Log: Optional **vendorAuthString** parameter in **getFeaturesQueryRequest** API in **ProductPackagingService v3**

The **getFeaturesQueryRequest** API in the **ProductPackagingService** web service (version 3) supports the new optional parameter **vendorAuthString**. Producers can use the new parameter to retrieve the vendor auth string alongside other feature properties and to query feature information.



Note • This enhancement was tracked in SWM-27118 (see also [Optional vendorAuthString parameter in getFeaturesQueryRequest API in ProductPackagingService v3](#)).

Modifications were made to the following file:

- [featureTypes.xsd](#)

featureTypes.xsd

The following changes were made to this file. Additions are highlighted.

Change

- 1 `<xs:complexType name="featureDataType">`
`<xs:sequence>`
`<xs:element name="featureName" type="xs:string"/>`
`<xs:element name="versionFormat" type="tns:VersionFormatType"/>`
`<xs:element name="version" type="xs:string" minOccurs="0"/>`
`<xs:element name="maxVersion" type="xs:string" minOccurs="0"/>`
`<xs:element name="description" type="xs:string" minOccurs="0"/>`
`<xs:element name="aggregationType" type="tns:AggregationType" minOccurs="0"/>`
`<xs:element name="vendorAuthString" type="xs:string" minOccurs="0"/>`
`<xs:element name="featureOverrideParams" type="tns:featureOverrideParamsType" minOccurs="0"/>`
`</xs:sequence>`
`</xs:complexType>`
- 2 `<xs:complexType name="featureOverrideParamsType">`
`<xs:sequence>`
`<xs:element name="vendorString" type="xs:string" minOccurs="0"/>`
`<xs:element name="notice" type="xs:string" minOccurs="0"/>`
`<xs:element name="borrowable" type="xs:string" minOccurs="0"/>`
`<xs:element name="serialNumber" type="xs:string" minOccurs="0"/>`
`<xs:element name="dupGroup" type="tns:dupGroupDataType" minOccurs="0"/>`
`</xs:sequence>`
`</xs:complexType>`
- 3 `<xs:complexType name="featureQueryDataType">`
`<xs:sequence>`
`<xs:element name="uniqueId" type="xs:string"/>`
`<xs:element name="featureName" type="xs:string"/>`
`<xs:element name="versionFormat" type="tns:VersionFormatType"/>`
`<xs:element name="version" type="xs:string" minOccurs="0"/>`
`<xs:element name="description" type="xs:string" minOccurs="0"/>`
`<xs:element name="state" type="tns:StateType"/>`
`<xs:element name="vendorAuthString" type="xs:string" minOccurs="0"/>`
`<xs:element name="featureOverrideParams" type="tns:featureOverrideParamsType" minOccurs="0"/>`
`</xs:sequence>`
`</xs:complexType>`

Change

- 4

```
<xs:complexType name="updateFeatureDataType">
  <xs:sequence>
    <xs:element name="featureIdentifier" type="tns:featureIdentifierType" />
    <xs:element name="featureName" type="xs:string" minOccurs="0"/>
    <xs:element name="versionFormat" type="tns:VersionFormatType" minOccurs="0"/>
    <xs:element name="version" type="xs:string" minOccurs="0"/>
    <xs:element name="maxVersion" type="xs:string" minOccurs="0"/>
    <xs:element name="description" type="xs:string" minOccurs="0"/>
    <xs:element name="vendorAuthString" type="xs:string" minOccurs="0"/>
    <xs:element name="aggregationType" type="tns:AggregationType" minOccurs="0"/>
    <xs:element name="featureOverrideParams" type="tns:featureOverrideParamsType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```
- 5

```
<xs:complexType name="featureQueryParametersType">
  <xs:sequence>
    <xs:element name="featureName" type="tns:SimpleQueryType" minOccurs="0" nillable="true"/>
    <xs:element name="version" type="tns:SimpleQueryType" minOccurs="0" nillable="true"/>
    <xs:element name="versionFormat" type="tns:VersionFormatQueryType" minOccurs="0" nillable="true"/>
    <xs:element name="description" type="tns:SimpleQueryType" minOccurs="0" nillable="true"/>
    <xs:element name="state" type="tns:StateQueryType" minOccurs="0" nillable="true"/>
    <xs:element name="creationDate" type="tns:DateQueryType" minOccurs="0" nillable="true"/>
    <xs:element name="lastModifiedDate" type="tns:DateQueryType" minOccurs="0" nillable="true"/>
    <xs:element name="vendorAuthString" type="tns:SimpleQueryType" minOccurs="0" nillable="true"/>
  </xs:sequence>
</xs:complexType>
```

Change Log for 2025.05

Zero Mapping of Activation IDs on Cloud Licensing Service Instances

The 2025.05 release introduces version 7 of the ManageDevice SOAP web service. The new version contains a new operation, **zeroCountAddonLineItems**, which enables producers to explicitly set an activation ID with a zero allocation mapping on a Cloud Licensing Service (CLS) instance.

To implement these new actions, the [ManageDeviceService.wsdl](#) file and its associated [manageDeviceTypes.xsd](#) file have been updated to v7 and modifications have been made.



Note • This enhancement was tracked in SWM-25022.

ManageDeviceService.wsdl

In addition to updating the version number from 6 to 7 in multiple locations in the ManageDeviceService.wsdl file, the following additional changes were made. Additions are highlighted.

#	Change
1	<pre><message name="decrementAddonLineItemsResponse"> <part name="msgparameters" element="tns:decrementAddonLineItemsResponse"/> </message> <message name="zeroCountAddonLineItemsRequest"> <part name="msgparameters" element="tns:zeroCountAddonLineItemsRequest"/> </message> <message name="zeroCountAddonLineItemsResponse"> <part name="msgparameters" element="tns:zeroCountAddonLineItemsResponse"/> </message></pre>
2	<pre><operation name="incrementAddonLineItems"> <input message="tns:incrementAddonLineItemsRequest"/> <output message="tns:incrementAddonLineItemsResponse"/> </operation> <operation name="zeroCountAddonLineItems"> <input message="tns:zeroCountAddonLineItemsRequest"/> <output message="tns:zeroCountAddonLineItemsResponse"/> </operation></pre>
3	<pre><operation name="incrementAddonLineItems"> <soap:operation style="document"/> <input> <soap:body use="literal" /> </input> <output> <soap:body use="literal" /> </output> </operation> <operation name="zeroCountAddonLineItems"> <soap:operation style="document"/> <input> <soap:body use="literal" /> </input> <output> <soap:body use="literal" /> </output> </operation></pre>

manageDeviceTypes.xsd

In addition to updating the version number from 6 to 7 in multiple locations in the manageDeviceTypes.xsd file, the following Elements were added.

#	Change
1	<pre><xs:element name="incrementAddonLineItemsResponse" type="tns:linkAddonLineItemsResponseType"/> <xs:element name="zeroCountAddonLineItemsRequest" type="tns:linkAddonLineItemsRequestType"/> <xs:element name="zeroCountAddonLineItemsResponse" type="tns:linkAddonLineItemsResponseType"/> <xs:element name="decrementAddonLineItemsRequest" type="tns:linkAddonLineItemsRequestType"/> <xs:element name="decrementAddonLineItemsResponse" type="tns:linkAddonLineItemsResponseType"/></pre>

Change Log for 2025.02

Ability to List Fulfillment And License Information for Specified Host

The [LicenseFulfillmentService.wsdl](#) has been updated to v2. It includes the following:

- New **getHostQuery** operation to list fulfillment and license information by hostid.
- New **getHostCount** operation to get the number of hosts that fit certain criteria. This number can be used as batchSize input in **getHostQuery**.



Note - These enhancements were tracked in SWM-22714 and SWM-25245, respectively (see [Returning Fulfillment and License Information for Non-Embedded Technologies Using Web Services](#) and [New Operation for Getting Host Count in License Service SOAP Web Service](#)).

Changes to the WSDL and XSD Files

The [LicenseFulfillmentService.wsdl](#) file includes a reference to the [licenseFulfillmentTypes.xsd](#) file, and that .xsd file refers to the following additional .xsd files:

- [licenseFulfillmentTypes.xsd](#)
- [trustedOfflineActivationTypes.xsd](#)
- [fulfillmentTypes.xsd](#)
- [commonTypes.xsd](#)

LicenseFulfillmentService.wsdl

In addition to updating the version number from 1 to 2 in multiple locations in the LicenseFulfillmentService.wsdl file, the following additional changes were made. Additions are highlighted.

#	Change
1	<pre><message name="createLicenseResponse"> <part name="msgparameters" element="tns:createLicenseResponse"/> </message> <message name="createCVDFullfillmentsRequest"> <part name="msgparameters" element="tns:createCVDFullfillmentsRequest"/> </message> <message name="createCVDFullfillmentsResponse"> <part name="msgparameters" element="tns:createCVDFullfillmentsResponse"/> </message></pre>
2	<pre><message name="createLicensesAsBatchAndConsolidateResponse"> <part name="msgparameters" element="tns:createLicensesAsBatchAndConsolidateResponse"/> </message> <message name="createCVDLicenseFileRequest"> <part name="msgparameters" element="tns:createCVDLicenseFileRequest"/> </message> <message name="createCVDLicenseFileResponse"> <part name="msgparameters" element="tns:createCVDLicenseFileResponse"/> </message></pre>
3	<pre><message name="transferHostResponse"> <part name="msgparameters" element="tns:transferHostResponse"/> </message> <message name="getHostQueryRequest"> <part name="msgparameters" element="tns:getHostQueryRequest"/> </message> <message name="getHostQueryResponse"> <part name="msgparameters" element="tns:getHostQueryResponse"/> </message> <message name="getHostCountRequest"> <part name="msgparameters" element="tns:getHostCountRequest"/> </message> <message name="getHostCountResponse"> <part name="msgparameters" element="tns:getHostCountResponse"/> </message></pre>
4	<pre><operation name="createLicense"> <input message="tns:createLicenseRequest"/> <output message="tns:createLicenseResponse"/> </operation> <operation name="createCVDFullfillments"> <input message="tns:createCVDFullfillmentsRequest"/> <output message="tns:createCVDFullfillmentsResponse"/> </operation></pre>

Change

```
5 <operation name="createLicensesAsBatchAndConsolidate">
  <input message="tns:createLicensesAsBatchAndConsolidateRequest"/>
  <output message="tns:createLicensesAsBatchAndConsolidateResponse"/>
</operation>
<operation name="createCVDLicenseFile">
  <input message="tns:createCVDLicenseFileRequest"/>
  <output message="tns:createCVDLicenseFileResponse"/>
</operation>
```

```
6 <operation name="transferHost">
  <input message="tns:transferHostRequest"/>
  <output message="tns:transferHostResponse"/>
</operation>
<operation name="getHostQuery">
  <input message="tns:getHostQueryRequest"/>
  <output message="tns:getHostQueryResponse"/>
</operation>
<operation name="getHostCount">
  <input message="tns:getHostCountRequest"/>
  <output message="tns:getHostCountResponse"/>
</operation>
```

```
7 <operation name="createLicense">
  <soap:operation style="document"/>
  <input>
    <soap:body use="literal"/>
  </input>
  <output>
    <soap:body use="literal"/>
  </output>
</operation>
<operation name="createCVDfulfillments">
  <soap:operation style="document"/>
  <input>
    <soap:body use="literal"/>
  </input>
  <output>
    <soap:body use="literal"/>
  </output>
</operation>
```

Change

```
8    <operation name="createLicensesAsBatchAndConsolidate">
      <soap:operation style="document"/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
    <operation name="createCVDLicenseFile">
      <soap:operation style="document"/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
```

```
9    <operation name="transferHost">
      <soap:operation style="document"/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
    <operation name="getHostQuery">
      <soap:operation style="document"/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
    <operation name="getHostCount">
      <soap:operation style="document"/>
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
```

licenseFulfillmentTypes.xsd

The only change made to the licenseFulfillmentTypes.xsd file between v1 and v2 was to update the version number from 1 to 2 in multiple locations in the file.

trustedOfflineActivationTypes.xsd

The only change made to the trustedOfflineActivationTypes.xsd file between v1 and v2 was to update the version number from 1 to 2 in multiple locations in the file.

fulfillmentTypes.xsd

In addition to updating the version number from 1 to 2 in multiple locations in the fulfillmentTypes.xsd file, the following complexTypes were added.

#	Change
1	<pre><!-- START createCVDFulfillments --> <xs:element name="createCVDFulfillmentsRequest" type="tns:createFulfillmentRequestType"/> <xs:element name="createCVDFulfillmentsResponse" type="tns:createFulfillmentResponseType"/> <!-- END createCVDFulfillments --> <!-- START verifyCreateLicense --> <xs:element name="verifyCreateLicenseRequest" type="tns:createFulfillmentRequestType"/> <xs:element name="verifyCreateLicenseResponse" type="tns:createFulfillmentResponseType"/> <!-- END verifyCreateLicense --></pre>

Change

```
2 <!-- END consolidatedFulfillments -->
<!-- START createCVDLicenseFile -->
<xs:complexType name="createCVDLicenseFileRequestType">
  <xs:sequence>
    <xs:element name="queryParams" type="tns:CVDLicenseFileQueryParametersType" minOccurs="0"/>
    <xs:element name="vendorStringIsCumulative" type="xs:boolean"/>
    <xs:element name="pageNumber" type="xs:integer" nillable="true"/>
    <xs:element name="batchSize" type="xs:integer" nillable="true"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="CVDLicenseFileQueryParametersType">
  <xs:sequence>
    <xs:element name="hostId" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="nodeLockHostId" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="customHostAttributes" type="tns:customAttributesQueryListType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="createCVDLicenseFileResponseType">
  <xs:sequence>
    <xs:element name="statusInfo" type="tns:StatusInfoType"/>
    <xs:element name="responseData" type="tns:CVDLicenseFileConsolidatedResponseDataType"
minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="CVDLicenseFileConsolidatedResponseDataType">
  <xs:sequence>
    <xs:element name="licenseTechnology" type="tns:CVDLicenseFileConsolidatedLicenseDataType"
minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="CVDLicenseFileConsolidatedLicenseDataType">
  <xs:sequence>
    <xs:element name="licenseTechnologyName" type="xs:string" minOccurs="0"/>
    <xs:element name="soldTo" type="xs:string"/>
    <xs:element name="criteria" type="xs:string"/>
    <xs:element name="licenseGenerator" type="tns:CVDLicenseGeneratorType" minOccurs="0"
maxOccurs="unbounded"/>
    <xs:element name="state" type="tns:StateType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="CVDLicenseGeneratorType">
  <xs:sequence>
    <xs:element name="licenseGeneratorName" type="xs:string"/>
    <xs:element name="consolidatedLicenseId" type="xs:string"/>
    <xs:element name="consolidatedFulfillments" type="tns:fulfillmentIdentifierListType"/>
    <xs:element name="licenseFiles" type="tns:licenseFileDataListType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="createCVDLicenseFileRequest" type="tns:createCVDLicenseFileRequestType"/>
<xs:element name="createCVDLicenseFileResponse" type="tns:createCVDLicenseFileResponseType"/>
<!-- END createCVDLicenseFile -->
```

Change

```
3 <!-- end transferHost -->
<!--START getHostQueryTypes -->
<xs:complexType name="hostDataType">
  <xs:sequence>
    <xs:element name="soldTo" type="xs:string"/>
    <xs:element name="licenseTechnology" type="tns:licenseTechnologyIdentifierType" minOccurs="0"/>
    <xs:element name="state" type="tns:StateType" minOccurs="0"/>
    <xs:element name="hostID" type="xs:string" minOccurs="0"/>
    <xs:element name="hostType" type="xs:string" minOccurs="0"/>
    <xs:element name="account" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="hostQueryParametersType">
  <xs:sequence>
    <xs:element name="hostId" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="soldTo" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="licenseTechnology" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="hostType" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="account" type="tns:SimpleQueryType" minOccurs="0"/>
    <xs:element name="fulfillmentState" type="tns:fulfillmentStateQueryType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="getHostQueryRequestType">
  <xs:sequence>
    <xs:element name="queryParams" type="tns:hostQueryParametersType" minOccurs="0"/>
    <xs:element name="pageNumber" type="xs:integer" nillable="true"/>
    <xs:element name="batchSize" type="xs:integer" nillable="true"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="getHostQueryResponseDataType">
  <xs:sequence>
    <xs:element name="hostData" type="tns:hostDataType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="fulfillmentState" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="getHostQueryResponseType">
  <xs:sequence>
    <xs:element name="statusInfo" type="tns:StatusInfoType"/>
    <xs:element name="responseData" type="tns:getHostQueryResponseDataType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="getHostQueryRequest" type="tns:getHostQueryRequestType"/>
<xs:element name="getHostQueryResponse" type="tns:getHostQueryResponseType"/>
<!-- END getHostQueryTypes -->
```

commonTypes.xsd

In addition to updating the version number from 1 to 2 in multiple locations in the commonTypes.xsd file, the following additional changes were made. Additions are highlighted in **blue**.

#	Change
1	<pre><xs:simpleType name="CreateOrUpdateOperationType"> <xs:restriction base="xs:NMTOKEN"> <xs:enumeration value="CREATE_OR_UPDATE"/> <xs:enumeration value="CREATE_OR_IGNORE"/> </xs:restriction> </xs:simpleType> <xs:simpleType name="CreateOrUpdateOperationAccountType"> <xs:restriction base="xs:NMTOKEN"> <xs:enumeration value="CREATE_OR_UPDATE"/> <xs:enumeration value="CREATE_OR_IGNORE"/> </xs:restriction> </xs:simpleType> <xs:simpleType name="CollectionOperationType"> <xs:restriction base="xs:NMTOKEN"> <xs:enumeration value="REPLACE"/> <xs:enumeration value="ADD"/> <xs:enumeration value="DELETE"/> </xs:restriction> </xs:simpleType> <xs:simpleType name="CollectionOperationAccountType"> <xs:restriction base="xs:NMTOKEN"> <xs:enumeration value="REPLACE"/> <xs:enumeration value="ADD"/> <xs:enumeration value="DELETE"/> </xs:restriction> </xs:simpleType></pre>

Change

```
2 <xs:complexType name="OrgTypeList">
  <xs:sequence>
    <xs:element name="orgType" type="tns:OrgType" minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>

<xs:simpleType name="accountType">
  <xs:restriction base="xs:NMTOKEN">
    <xs:enumeration value="CUSTOMER"/>
    <xs:enumeration value="PUBLISHER"/>
    <xs:enumeration value="CHANNEL_PARTNER"/>
    <xs:enumeration value="SELF_REGISTERED"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="accountTypeList">
  <xs:sequence>
    <xs:element name="accountType" type="tns:accountType" minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
<xs:complexType name="fulfillmentStateQueryType">
  <xs:sequence>
    <xs:element name="value" type="tns:fulfillmentStateType"/>
    <xs:element name="searchType" type="tns:simpleSearchType"/>
  </xs:sequence>
</xs:complexType>
<xs:simpleType name="fulfillmentStateType">
  <xs:restriction base="xs:NMTOKEN">
    <xs:enumeration value="ACTIVE"/>
    <xs:enumeration value="OBSOLETE"/>
    <xs:enumeration value="ON_HOLD"/>
  </xs:restriction>
</xs:simpleType>
```

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