

Getting Started with AVEVA Enterprise Licensing



AVEVA

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CHAPTER 1

Getting Started with AVEVA Enterprise Licensing

What is AVEVA Enterprise Licensing?

The AVEVA Enterprise Licensing system is a common platform that allows you to effectively and efficiently manage AVEVA Enterprise Software product licenses. This licensing system is composed of a browser-based License Manager and a License Server that together allow you to share and deliver licenses for your installed products. This licensing system was introduced to allow centralized license management, remove the need for dongles, and increase license security by use of Activated licenses. It is composed of a browser-based License Manager and a License Server that together allow you to share and deliver licenses for your installed products. It supports flexible topologies for any size of system. This guide applies to Activated licensing for AVEVA InTouch HMI, AVEVA InTouch HMI Web Client, AVEVA Application Server, AVEVA Historian Server, AVEVA Historian Clients, Communication Driver, Alarm Adviser, and Recipe Management.

This document provides a summary of the licensing process related to the 2017 Update 1 and Update 2 release and provides licensing related recommendations for different topologies.

The AVEVA Enterprise Licensing system is supported on the following web browsers:

- Internet Explorer version 10 and later
- Google Chrome versions later than 32
- Mozilla Firefox versions later than 27
- Microsoft Edge

Note: Microsoft Edge does not support single sign-on. Using Microsoft Edge will prompt you to sign in with your Windows credentials before launching License Manager.

The following describes the components of the AVEVA Enterprise Licensing system.

License Manager

The License Manager allows you to quickly access and maintain licenses for certain AVEVA Enterprise Software products in your different environments by means of its scalable, flexible design features:

- Browser-based for scalability and ease of use; can be remotely accessed by any of the above supported web browsers.
- Light-weight, standalone software you can install on the same node as the License Server computer, or on any other node based on your deployment needs.
- Manage one or multiple License Servers to best organize and manage the licenses in your unique environment.
- Access details about your licenses, such as usage information, from the License Manager interface.

License Server

License Server provides all the functionality to acquire, store, maintain, and serve licenses to your installed AVEVA Enterprise software.

- Licenses are hosted and maintained on the License Server.
- Securely serve any types of software application being licensed, including Windows browsers, tablets, and mobile devices.
- Provide current license usage information.

Activation Server

Activation server is a cloud-based Internet accessible server to which the License Manager connects for license activation. The License Manager connects to the AVEVA Activation Server in the Cloud only temporarily during the activation process.

Additional functional components and concepts are described under the key terms and concepts section.

Installed Products

Once the AVEVA Enterprise Software product is installed it relies on the licensing system to enable its functionality. During product installation you decide from which License Server you want the product to get its license. If a License Server is installed on the same computer as the product, it will use that one as the default. If the product is installed on a different computer than the License Server, you can point the product to License Server computer. All the products installed on the same computer would point to the same License Server.

How Does it Work?

This section describes the licensing workflow. This example assumes that both License Manager and License Server are installed on the same computer, and that the computer can connect to the Internet.

- **Purchase one or more AVEVA Enterprise Software products:** Along with your installation media or downloads, you will receive one or more entitlement files containing licenses details.
- **Start License Manager:** It opens in a browser window and accesses the installed License Manager components.
- **Select the License Server:** Use the License Manager to select an available server to host the licenses you want to activate. You can also add a new license server.
- **Import the entitlement file:** Import the entitlement file. Once imported, License Manager displays the available licenses.

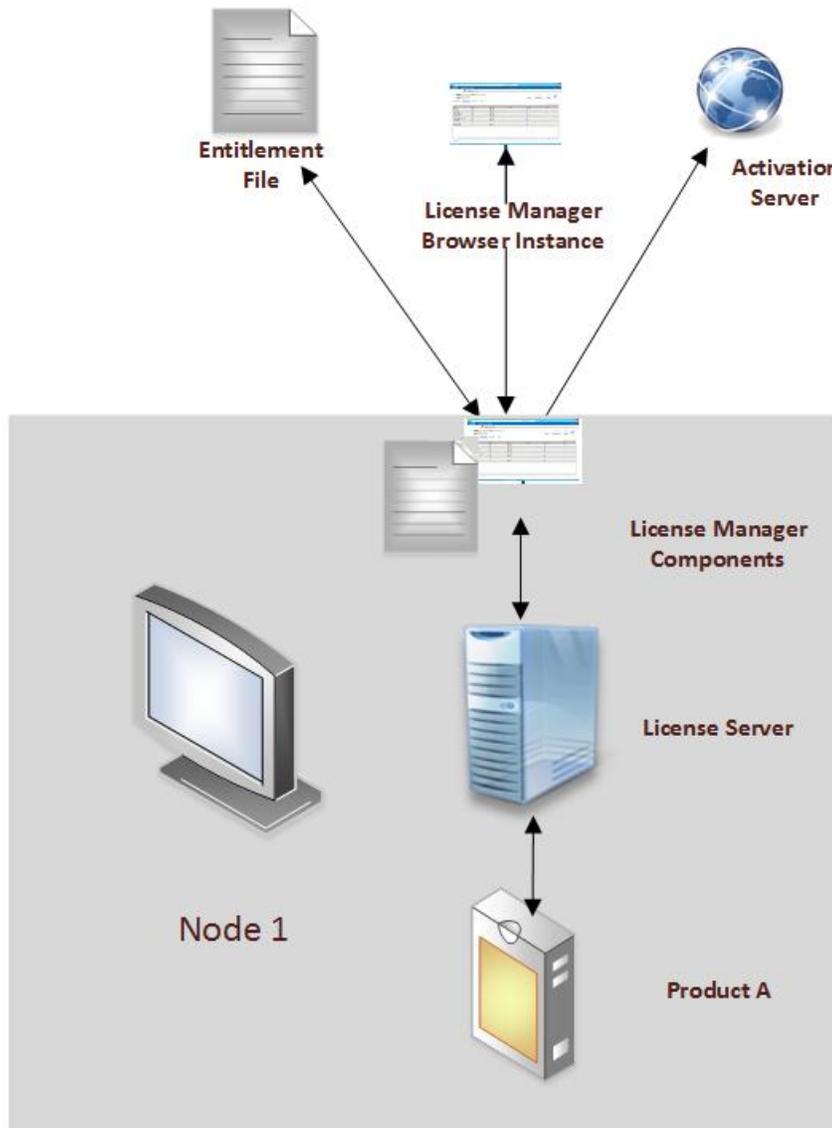
The entitlement file contains information for specific product licenses that is imported into the License Manager to activate purchased licenses. It is sent to you in an email upon purchase of your product licenses. It is in a zipped .xml file format.

- **Activate licenses:** License Manager connects to the AVEVA Enterprise Activation Server over the Internet to activate the selected licenses on the License Server.

The Activation Server activates licenses on the License Server.

- **Manage your licenses:** Licenses are now available for their respective product to use. You can now:
 - activate new licenses
 - deactivate current licenses
 - reserve and unreserve licenses
- **Install and Configure the purchased products:** Install your purchased AVEVA Enterprise Software products following the individual product installation instructions. The installed products, when running, will acquire their licenses from the License Server and will release them when no longer needed.

The following diagram shows the relationships between the licensing components in a single node system, but the workflow applies for all network topologies.



About Activating and Acquiring Licenses

License Manager and License Server are installed as part of the installation process of your purchased products. The Activation Server is not installed on your local computer or network. These components work together to provide licensing for your installed products.

License Activation is the process of enabling a purchased license on a License Server for use by a product. The Activation Server takes an Activation ID, validates it, and provides an activated license in return.

Acquiring a license occurs when an installed product is started. An installed product, when running, acquires its activated license from the License Server and releases it when no longer needed.

This section will give you an overview of how license activation works. For both activation modes, the license entitlement file must be copied to the target computer where License Manager components are installed, or to a location on your network where the target computer can access it.

You can use a trial license for a given product for try-out and testing purposes.

Note: For detailed information and procedures regarding trial licenses, installation and activation, refer to the AVEVA Enterprise Licensing Help.

Online Activation

Online activation provides the means to activate licenses when there are no internet restrictions in your environment. This mode is configured by default in the **Activation Settings** menu.

For online activation to work, make sure that the License Manager has connectivity to both the License Server, typically via an intranet, and to the Activation Server via the Internet.

Offline Activation

Offline activation provides the means to activate licenses when the Internet connection to the Activation Server is restricted to certain areas in your environment.

In this mode there are two nodes involved to complete the activation process:

- A node with License Manager components installed and network access to a License Server but no Internet access to the Activation Server. The **Offline Activation** mode must be selected in the **Activation Settings** menu.
- A node with Internet access to the Activation Server and License Activation Web Page.

Key Terms and Concepts

The following table describes the key terms and concepts of AVEVA Enterprise Licensing.

Term	Description
License Server Node	Computer or VM where the License Server software is installed and running.
License Manager Node	Computer or VM where the License Manager software is installed and running.
Entitlement File	An XML file that contains the Activation IDs which enable specific product software functionality.
Entitlement ID	A unique identifier that groups all licenses from a single order together. This unique identifier is also the file name of the Entitlement file. Example: DEV10200-int-2017A
Activation ID	A code that enables the activation of a specific product license.

Term	Description
License Activation	License Activation is the process of enabling a purchased license on a particular License Server for consumption by a product. Activation process can be done Online (typical) or Offline (a standalone License Server node that does not have access to the Internet).
License Reservation	Licenses can be reserved for a particular device, or left unreserved. The reserved license model ensures that specific devices are assigned a license and can be acquired only by that device. An available unreserved license can be acquired by any device without a reservation. Once all unreserved licenses are acquired, any new license requests will be denied.
Online Activation	Online activation provides a workflow to activate your licenses when a system has access to the Internet and it can reach the AVEVA Activation Server. Online Activation is the default mode.
Offline Activation	Offline activation provides a workflow to activate licenses when a system does not have access to the Internet and thus to the AVEVA Activation Server.
Request File	A License Manager generated file (*.sync) containing activation information used in the Offline Activation mode for the Activation Server to activate a license.
Response File	An Activation Server generated file (*.recv) containing license rights for activation used in the Offline Activation mode in order to complete the activation process.
Borrowed Time	If a node does not or cannot communicate with the Licenses Server to renew the license, then it will expire after certain time. This time duration is called borrowed time.
Grace Period	On the virtual image, if you try to clone or copy image of a License Server, the licensor server will enter a grace period. The grace period allows you to continue performing normal licensing functions for 15 days. After the 15 day Grace Period, the License Server will no longer serve licenses. You will need to update the licenses on the cloned or copied image within this time.

Term	Description
Redundancy	You can configure your system for high availability (HA) and disaster recovery (DR) using the license server redundancy features. For more details on how to setup redundancy, see "Working With License Server Redundancy" section in AVEVA Enterprise Licensing online help.
Virtualization	You can configure your licensing platform using commercially available virtual machines as part of your topology. For more details on how to set up a virtualized environment, see "Managing the Licensing System in a Virtual Environment" section in the AVEVA Enterprise Licensing online help.