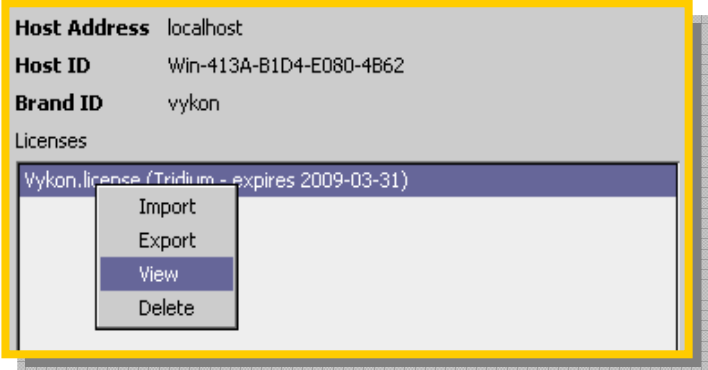


# License Manager

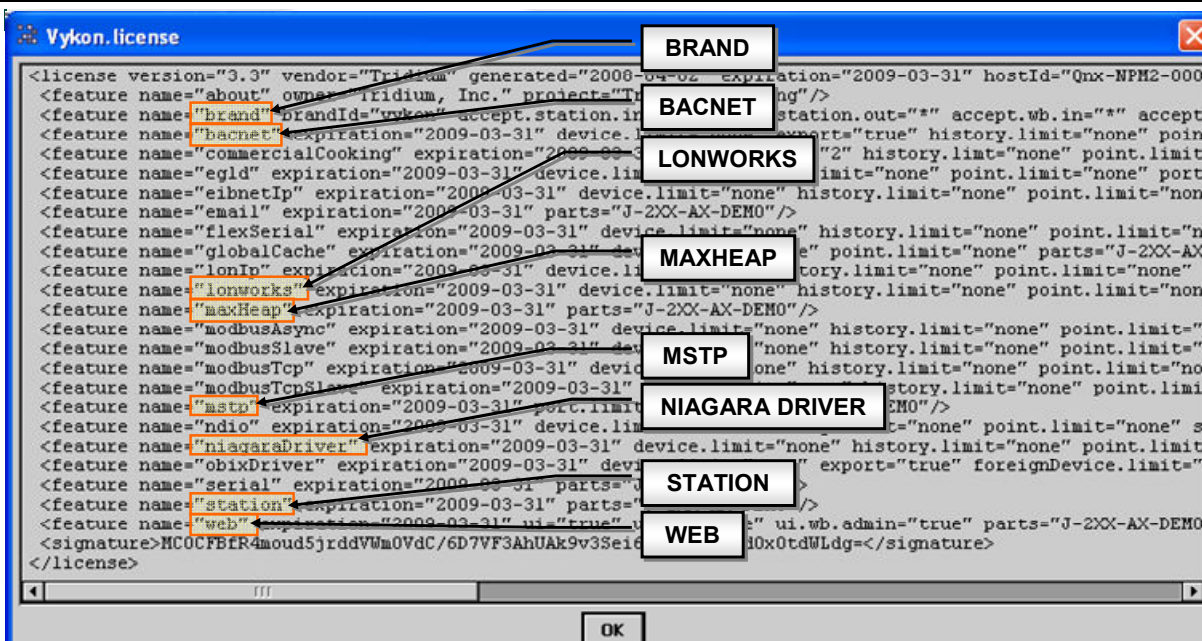
## FROM: Topic 6.2, Platform Tools

<b>Platform License Manager</b>	<p>License Manager views for a Windows-based Host (Niagara <sup>AX</sup>Supervisor) and a QNX-based Host (Niagara JACE) are unique, and can be accessed from either a <b>platform connection</b> or a <b>station connection</b>.</p> <ul style="list-style-type: none"> <li>✦ <u>Station connection</u>: via the <i>LicensePlatformService</i></li> <li>✦ <u>Platform connection</u>: via the <i>License Manager</i></li> </ul> <p>The <i>License Manager</i> is accessible from both <b>local host (PC workstation)</b> and <b>remote host (JACE) platform connections</b>.</p> <p>From the License Manager view, you can <u>import</u> either a License file or a Certificate file from the <b>Niagara Licensing Server</b> or directly from the file system of your Local Host.</p>
<i>License vs. Certificate</i>	<p>According to the <i>NiagaraAX User Guide</i>:</p> <p><i>“A <b>License file</b> is unique to a <u>specific Niagara host</u>, and enables a set of vendor features. All NiagaraAX hosts require a branded ‘Tridium’ license.”</i></p> <p><i>“A <b>Certificate file</b> varies by vendor, and matches that vendor to a public key used for encryption. It is used for verifying the authenticity of license files.”</i></p>
<i>Viewing a license</i>	<p>You can view the contents of a License or Certificate by selecting the file and clicking the <b>“View” button</b>, or by simply double-clicking your mouse on the name of the License or Certificate file.</p>  <p>The screenshot shows a window titled 'Host Address localhost'. It displays fields for 'Host ID' (Win-413A-B1D4-E080-4B62) and 'Brand ID' (vykon). Below these is a section labeled 'Licenses' containing a list with one entry: 'Vykon.license (Tridium - expires 2009-03-31)'. A right-click context menu is open over this entry, showing options: 'Import', 'Export', 'View' (which is highlighted), and 'Delete'.</p>
<i>Maintaining integrity</i>	<p>The <b>digital signature</b> is created when a license or certificate is generated, and <u>prevents tampering</u>. Attempts to edit a license or certificate to enable additional functionality will render the file useless.</p>
<i>Versioning</i>	<p>Each license or certificate identifies:</p> <ul style="list-style-type: none"> <li>✦ <b>Software version</b></li> <li>✦ <b>Issuing vendor</b></li> <li>✦ <b>Generated date</b></li> <li>✦ <b>Expiration date</b></li> </ul> <p><i>A license issued for an actual project will never expire.</i></p>
<i>Identification</i>	<p>Each Niagara platform is assigned a unique <b>host ID number</b>. The host ID of the license must match the host ID of the platform in order for the Niagara software to function. JACEs are also assigned a <b>Serial Number</b>.</p>

# License Manager

## License & certificate features

- ✦ Branding
- ✦ Device Integrations
- ✦ Stations/Web
- ✦ Workbench
- ✦ Max Heap
- ✦ MSTP



### Branding

Tridium's OEM partners issue licenses that identify their particular product line by Brand. The OEM may also define interoperability restrictions in accordance with the **Niagara Compatibility Statement**.

The 5 elements of the Niagara Compatibility Statement are:

- `accept.station.in = "*"`
- `accept.station.out = "*"`
- `brandId = "vykon"`
- `accept.wb.in = "*"`
- `accept.wb.out = "*"`

The "\*" is a wildcard designation that allows all brands.

Here is an example of a restricted Honeywell Webs license:

<code>brandId="Webs"</code>	<code>accept.station.in="*" accept.station.out="*" accept.wb.in="Webs" accept.wb.out="*" accept.wb.admin="true" parts="J-2XX-AX-DEMO"/&gt;</code>
Allows connection	Allows connection
	Allows engineering only by a Honeywell Webs

### Device integrations



For device integrations such as BACNet and LonWorks, the various limits determine **how many devices or proxy points can be added to the station, or how many history trends or schedules can be imported into or exported out of the station for each licensed network type.**

*You may not be required to specifically order a particular driver, depending on your choice of distribution channel.*

## License Manager

<i>Stations/Web</i>	The “ <b>station</b> ” <b>feature</b> determines if you are allowed to run a station on the licensed platform. The “ <b>web</b> ” <b>feature</b> determines if you are allowed to connect to the running station through a Browser-based User Interface (BUI).
<i>Workbench</i>	<p>The “<b>workbench</b>” <b>feature</b> determines if you are allowed to launch the Niagara Workbench application from a licensed platform. This Workbench application is used for a variety of purposes, such as configuring remote platforms and stations.</p> <p><i>A Windows platform that does not include the Workbench feature (excluding the JACE NXS model) in its license is essentially a “<b>SoftJACE</b>” – a software-based JACE running on a PC.</i></p>
<i>Max heap</i>	<p>For the JACE-201 and -601 platforms with field-upgradable memory, the “<b>maxHeap</b>” <b>feature</b> allows you to access the full complement of available memory. Heap is that portion of available memory that is allocated for the storage of Java objects.</p> <p><i>In the case of the <b>JACE-201</b>, only those units with a serial number of 8454 and higher will actually have 128 mB available. Earlier units were manufactured with 64 mB, and as such are not upgradeable.</i></p>
<i>MSTP</i>	<p>For <u>QNX-based JACEs</u>, the “<b>mstp</b>” <b>feature</b> allows you to enable the BacNet MSTP port so that MSTP devices can be managed. It is not possible to use BacNet MSTP on a Windows platform!</p> <p><i>Make sure the “<b>port.limit</b>” is sufficient for all desired MSTP trunks. Certain JACEs are expandable to allow for as many as six serial ports.</i></p>
<b>Importing licenses &amp; certificates</b>	<p><b>View and install (import)</b> Niagara<sup>AX</sup> <u>licenses</u> and <u>certificates</u> to a remote JACE platform, sourced either from your Workbench PC or the Niagara licensing server. You can also view contents of licenses and certificates, and if desired, <b>delete</b> them from a JACE.</p> <p style="background-color: yellow;"><b>CAUTION: DO NOT delete an existing license or certification without a specific reason -- you will render the JACE inoperative until a proper license or certification can be re-installed.</b></p>
<b>Workbench License Manager</b>	The <i>Workbench License Manager</i> can be accessed using the <b>Tools menu</b> in the Menu Bar. Unlike the platform <i>License Manager</i> discussed previously, it allows you to manage the contents of your <u>local license database</u> <b>without being connected</b> to a platform.
<i>Auto loaded</i>	As you connect to any <b>remote platform</b> AND activate the <b>License Manager platform view</b> , the installed license is <u>automatically loaded</u> into the license database on the local host.
<b>Location of license files</b>	<b><i>Local Host: My file System &gt; Sys Home &gt; licenses &gt; db folder</i></b>

## License Manager

<div>  <div>QUIK-REVIEW</div>  </div>				
VIEW/TOOL	FUNCTIONS	PLATFORM CONN REQ'D	ACCESS FROM	LOCATION
<b>PLATFORM LICENSE MANAGER</b>	<ul style="list-style-type: none"> <li>▪ <u>Import</u> licenses and certificates to remote platforms (JACE or PC)</li> <li>▪ <u>View</u> contents of licenses and certificates</li> <li>▪ <u>Delete</u> licenses and certificates</li> </ul>	YES	Platform tools	Specific local or remote platform container
<b>WORKBENCH LICENSE MANAGER</b> <i>(see the View Selector)</i>	<ul style="list-style-type: none"> <li>▪ <u>Manage</u> contents of local license database</li> <li>▪ Installed license is <u>automatically loaded</u> into the <i>Local License Database</i> as you connect to any remote platform and activate the platform <i>License Manager</i> view</li> </ul>	NO	<b>Tools menu:</b> – <i>Local License Database</i>	<b>Actual licenses reside in Local Host:</b> – My File System – Sys Home – licenses – db