



TridiumTalk: Niagara 4.6 System Database Feature

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Frequently Asked Questions:

Are JACE and Supervisor Px files keep synchronized once it had been loaded for the first time into the supervisor?

If changes are made at the JACE side, there is an action available at the Supervisor side to request a reload of the PX file. The files can be configured to automatically synchronize on a trigger interval, or you can manually synchronize them using the "Reload Virtual Px Views" action.

Are the Px pages loaded once in the web supervisor per session or once there they stay there available for the next session?

The files are loaded once, then re-used from that point on. The files are maintained in folders associated with each remote station in case multiple stations have PX file with the same name that are different. If changes are made at the JACE side, there is an action available at the Supervisor side to request a reload of the PX file (or you can configure an automatic trigger to synchronize the PX files). They are cached on the supervisor and available for the next session.

How do we edit anything after the fact? Do we make the changes on the JACE and then re-index on the supervisor?

If the application in the JACE is updated, then yes, re-index the JACE. This will happen every day at 2:00AM by default. If a PX file is updated, there is an action available at the Supervisor side to request a reload of the PX file (or you can configure an automatic trigger to synchronize the PX files).

Can the Px pages in the remote station come out of a module or do they need to be on the file system of the station. As you use Px view tags I believe they need to be on the file system

Just like PxViewTags, the Px views on the remote stations need to be on the file system of the station to be displayed as an on-demand virtual graphic on the supervisor.

What are the licensing costs associated with the System Database?

There is no additional cost for the System Database Service

You showed us how remote schedules can be changed, can other settings be changed?

All actions (ex: Override, Auto, Set) on components are available on the Niagara Virtuals. You can also edit any of the settings available on the HTML5 scheduler view.

It seems like the tree is used mostly for user navigation. Can a normal home page with hyperlinks be created once they are initially learned up?

Yes, but the hyperlinks must refer to the Niagara Virtual components such as HVAC equipment. Just keep in mind the Niagara Virtual components only retrieve data when being viewed by a user.

When you navigated to the VAVs it looked like you are pulling in live data. Is that done with proxy points or virtual points? Wondering about the impact on point count reaching global capacity

The Supervisor requires a license for the number of remote stations required. The individual points are not impacted because Niagara virtual points are used for the live data in those graphics, not proxy points.

Are the example hierarchy structures available somewhere as a resource?

There is a document available that explains the concept of the hierarchy used in the presentation at: <https://www.tridium.com/en/resources/events>

Is this designed specifically for JACEs or can it be used with other Niagara enabled devices

The System Database Service supports all Niagara Network connections. The remote platform must be at Niagara version 4.4 as a minimum to be indexed by a Supervisor.

Is the JACE data backed up with the supervisor? Or is it backed up only with the JACE?

Assuming this question is referring to history data, this process has not changed in Niagara 4.6. The histories must be discovered and added to each station as in previous versions. The System Database on the supervisor does not store a station backup. It only stores Entity information (such as tags and relations). Station backups are not affected by the System Database and should continue to be setup as before.

Are there some views that won't work with virtuals (like remote alarm consoles)? If so, what are the ones to watch out for?

Yes, there are some views that won't work when embedded in a px graphic viewed against a Niagara virtual on the supervisor. This feature is subject to the same constraints that applied to PxViewTags when using exportTags. For example, remote alarm console views, series transform views, and some collection table views are not currently supported by the on-demand px graphics on Niagara virtuals. There could be others, including custom views created by third party developers.

With exportTag we can use substitution...how does it work with System Database?

Substitution is not currently supported with on-demand Px graphics on Niagara virtuals.

What about setpoints?

All actions available using the right-click invoke process are available on the Niagara Virtual components.

Do you need 4.6 on all remote JACEs?

The remote platform must be at Niagara version 4.4 as a minimum to be indexed by a Supervisor.

Does this include alarm consoles on the JACE or do alarms still need to be sent to a station recipient?

The alarm process has not changed. Each JACE must connect to the Supervisor and push alarms as in previous versions.

Can we you also export tags?

ExportTags are still supported, but with these new features, you may not be as dependent on using ExportTags.