



## Niagara 4.13 Feature Preview - Haystack 4 Support

April 13, 2023

### Q&A

1. [This is more of a historical question but it comes up with customers: What version of haystack was found in the Niagara 4.10 module? I don't see it documented anywhere. There are some hastackv3 tags missing like siteRef, equipRef, etc...?](#)

The Haystack dictionary is based on version 3 in versions of Niagara prior to 4.13. The siteRef, equipRef, etc. tags are included as relations in that dictionary. In the Haystack 4 dictionary, there is both a siteRef, equipRef, etc. tag and a relation so users can choose which one works for them. Relations can be powerful but only work within a single station. The ref tags can be used to refer to entities outside of a station.

2. [Are those CSV files available? Would help to understand the smart tags defined?](#)

There are Haystack 3 CSV files included within haystack-rt.jar. The Haystack 4 dictionary uses JSON files only. There are versions within haystack-rt.jar but users can point to other version of those files, if necessary.

3. [If you update offline before you load it to controller, will it also use the latest version during commissioning? I program my station with latest version at my pc and do import. Will then use the imported version used?](#)

An empty Haystack 4 dictionary will import its tags, tag groups, etc. at station start from the JSON files included within haystack-rt. To re-import from updated JSON files in an upgraded haystack-rt or to re-import from files retrieved from elsewhere, the import action must be manually invoked on the dictionary in a running station.

4. [When doing JACE and supervisor, how the tag gets to supervisor? or should do the tag on supervisor?](#)

Tags can be fetched on Niagara proxy points so those applied on the JACE are available in the supervisor. SystemDb is another solution for indexing tags and relations from Niagara stations at any level of the network and using them on the supervisor.

5. [Not used lot of tagging before because didn't see why but start to see lot of benefits. Can these relations be made over different station? For ex my chilled water circuit is on other controller then chiller and want it to Relate it to the chiller?](#)

Relations cannot span stations at this time. To reference entities outside of the station, you can use the ref tags instead of the ref relations. The value of the ref tag would match the id of the referenced entity. For example, the entities of the chilled water circuit would



have equipRef and/or systemRef tags whose values are set to the id of the chiller. Then, there are ways to query for entities that contain these tags set to certain id values.

**6. How will this new h4 tags reflect on search? For ex want all Phase A values?**

The same NEQL queries for Haystack 3 tags will work for Haystack 4 tags by changing the namespace to "h4". For example, "h4:phase = "A"" instead of "hs:phase = "A"".