



Niagara 4.11 Feature Sneak Peak

Introducing Archive Alarm Provider

November 11, 2021

Q&A

1. Will we have the capability of switching newly purchased N4 licenses to be able to download AX in Niagara Central using the N4/AX slider so we can use that license to run old versions of AX in order to maintain and access AX stations? Or will this feature be removed and only the N4 selection of the slider will be available?

There will be many AX stations out there for a long time (you can still find R2 if you look hard enough!), so we will make sure to allow the ability to maintain customer's systems with your demo licenses. You will not see much in the way of support for these systems, so the hope is you can leverage your support to drive them to N4 installations.

2. Is the Archive Alarm provider only possible through a Supervisor or also on JACE?

The Orion Archive Alarm provider is only licensed on Supervisors since the RDB driver is only licensed on Supervisors.

3. Does it track who acknowledged the alarm?

The acknowledger of the alarm is tracked within the alarm record as the "user" field. This is common across all Niagara alarm database implementations.

4. Any notable differences between this and the new History Archive solution? Seems pretty similar.

They are very similar in design. The main differences are in how we determine what to archive. For histories it is time based, for alarms it is based on the state of the alarm.

5. Can you provide more details on the switch from OrionAlarmService to Alarm Service?

Yes, the demo will cover this, and the instructions for migration to the Orion Archive Alarm Provider will also be part of the documentation included with your Niagara 4.11 download.

6. Can we talk a little more about how to retrieve this alarm data once it's been archived? How can we query the database for specific alarms?

The views on the ArchiveAlarmProvider show the archived alarm data. These are same views as present on the AlarmService.



To query the alarm archive space, use extent alarm:archive in the bql queries. For example,

```
alarm:archive|bql: select * where source like  
'%/control/temp/BooleanChangeOfStateAlarmExt'  
alarm:archive|bql:select * where (sourceState = 'normal' or sourceState = 'alert') and  
ackState = 'acked'
```

Archived records will not be part of the openAlarms, thus below query will not result in any records from the alarm archive:

```
alarm:|bql:select * from openAlarms
```

More information can be found in the developer docs.

7. We are using MySQL remote database for history archival. Will the alarmArchive feature be available for us when we upgrade to N4.11?

Because the feature is being added to all Rdb Driver Parts, upon upgrade, The OrionArchiveAlarmProvider will be available to your station.

8. Is it compatible with PostgreSQL??

The OrionArchiveAlarmProvider can only be used with the rdbms currently supported by the RdbmsDriver: mySQL, MSsql, and OracleDB. If there is a 3rd party offering to integrate a station with PostgreSQL, an implementation of the ArchiveAlarmProvider could be created to pair with it.