# Niagara 4.11 Early Access Features

The following new features and functionalities will be available for testing in Niagara 4.11:

- **Archive History Provider:** The Archive History Provider streamlines access to years of historical Niagara data stored in a relational database (RDB) for rapid visualization and analysis. With the Archive History Provider, customers can seamlessly baseline years of historical trends against new data, thereby enabling the operator to make more well-informed analyses of equipment operation while also improving the systems' overall efficiency.

  This feature contains the following functionality:
    - Directly viewing Niagara histories stored in an RDB and locally (Supervisor) via a Niagara station WebChart
    - Directly viewing Niagara histories stored in an RDB and locally (Supervisor) via a Niagara station History Table

- **WebWiresheet:** WebWiresheet is an HTML5 browser-based configuration tool which extends the functionality of the existing Wiresheet application in Workbench. This new application view removes the need for the thick client Workbench when configuring wiresheet logic, as you can now login to the station via a browser to perform any necessary logic configuration changes. Even more, you can now use a tablet to make wiresheet changes.

  This beta implementation includes the following functionality:
    - Core wiresheet editing functions
        - Link/relate by dragging
        - Move/resize components
        - Drag and drop from palette / nav tree
    - Context menu commands:
        - Cut, Copy, Paste, Paste Special (within component space only)
        - Delete Link/Relation
        - Edit Tags
        - Edit Link
        - Go To Link
        - Go To Linked Component
        - Pin Slots
        - Relation Mark
    - Undo/Redo
        - Does not persist after page refresh
    - Wiresheet Thumbnail
    - Wiresheet Options

- **Alarm Archive Provider:** The alarmOrion Archive Provider will enhance the stability of customer building systems while also providing a compliance mechanism for CFR 21 part 11. This feature enables a station to cache alarm record events in memory whenever an RDB connection is interrupted, and then subsequently updates the database tables with the applicable records upon restoration of the database connection. Additionally, this feature also provides customers the ability to email such actionable alarms should the RDB disconnect,

which provides an extra level of assuredness as they can always ensure that all generated alarms will receive the appropriate attention for its resolution.

This feature contains the following functionality:

- o Caches alarm record events in memory whenever a database connection is interrupted, and then subsequently update the database tables with the applicable records upon restoration of the database connection
- o Email actionable alarms upon disconnection of the RDB

- **BACnet/SC:** BACnet Secure Connect (BACnet/SC), a new datalink layer option introduced by ASHRAE in 2019, addresses modern IP infrastructure and IT security requirements related to existing building controls networks. This exciting new protocol is now available in Niagara 4.11. Just open the bacnet palette to get started!

  The Niagara implementation of BACnet/SC supports the following functionality:

  - o Supervisor as a Hub
  - o JACE as a Hub
  - o Supervisor as a Node Switch
  - o JACE as a Node Switch

- **TLS 1.3:** New Transport Layer Security mechanism introduced in 4.11 to support BACnet/SC.

- **Interpolate Tail Functionality in WebChart:** This is new feature in WebChart for 4.11 which includes the following functionality:

  - o WebChart displays an interpolate tail for line, bar and shade graphs.
  - o Data that is coming from a live point vs history is displayed differently. If live data is not obtainable, the interpolate tail be a horizontal line to "now."
  - o Data popups are updated to differentiate between interpolate tail vs actual data values from history.
  - o BaseSeries provides a mechanism for child classes to turn the interpolated tail off completely.

- **Photo ID:** New enterprise security HTML5 view in 4.11 includes the following functionality:

  - o Photo Capture, Crop, Save
  - o Updated card template management that eliminates java dependencies

- **Provisioning Enhancements**: You can now edit provisioning steps in Niagara 4.11 which enables you to correct a mistake in a provisioning job and then re-run the job accordingly without having to manually reconfigure the job array. This functionality will allow you to save off a provisioning job and then edit the parameters appropriately for the actions you want to take a different site with different configurations, giving you back valuable time that would otherwise be spent running another job step.

Please reach out to tridiumbetatest@tridium.com for any questions, to report any issues or to start testing Niagara 4.11.