



Niagara Enterprise Security 4.8 Overview

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Legacy Support for Niagara Enterprise Security Customers

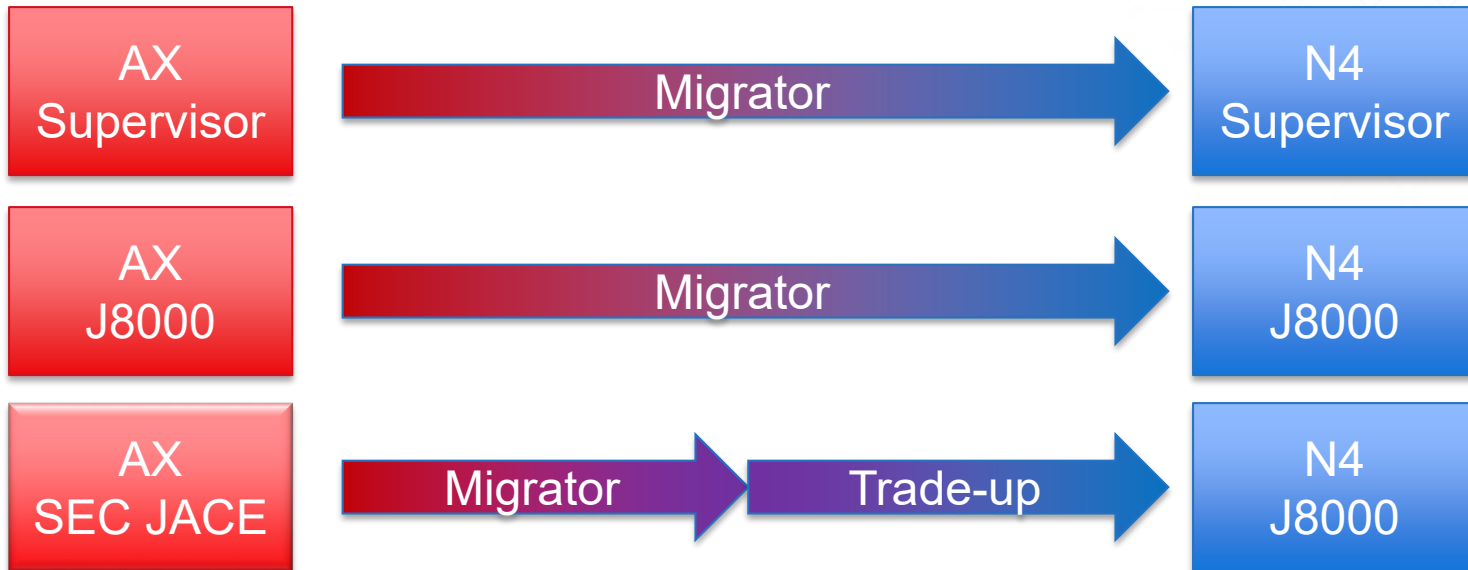
- Access to the latest Niagara features
- Latest Cyber Security Updates
- High-performance hardware optimized for N4



Station Migrator

Based on the Niagara core AX to N4 station migrator

- Update video drivers to nvideo drivers
- Migrates the database schema
- Migrates Access Network



Legacy Support

Support Security JACE 6 AX connection to N4 Supervisor

- Authentication
- Replication (Database synch)
- Alarm/Point mapping



Stop-gap measure to give customers time to update hardware

Required Parts for Upgrading

Model	Description	SMA Options
T-SEC-ENT-6 T-S-AX-10-INT	Security Security Supervisor / 6 Niagara Connections Integrated Supervisor / 10 Niagara Connections	SMA-SEC-SBS-1YR SMA-SEC-SBS-3YR SMA-SEC-SBS-5YR
T-SEC-ENT-100 T-S-AX-100-INT	Security Security Supervisor / 100 Niagara Connections Integrated Supervisor / 100 Niagara Connections	SMA-SEC-100-1YR SMA-SEC-100-3YR SMA-SEC-100-5YR
T-SEC-ENT-250 T-S-AX-250-INT	Security Security Supervisor / 250 Niagara Connections Integrated Supervisor / 250 Niagara Connections	SMA-SEC-250-1YR SMA-SEC-250-3YR SMA-SEC-250-5YR
T-SEC-6xx	Security JACE 6xx Note that SMA will only upgrade model to Niagara AX 3.8. Only required for licenses that are Niagara AX version 3.6 or lower.	SMA-SECJ6-1YR SMA-SECJ6-3YR SMA-SECJ6-5YR
SEC-J8-AX	Enterprise Security License on JACE 8000 with AX option	SMA-8xxx-1YR SMA-8xxx-3YR SMA-8xxx-5YR

Current SMA required to upgrade from AX to N4 version



Migrating a Niagara Enterprise Security Station from Niagara AX to Niagara 4.8

Migration Prep

1. Delete any drivers not supported in Niagara 4.8
 - Dedicated Micros, Rapid Eye
 - Other 3rd part drivers
2. Update Video Drivers from driver to ndriver. Use driver upgrade tool with fox connection (not foxs)
 - axisVideo -> naxisVideo
 - milestone -> nmilestone
3. Upgrade system to latest AX version
4. If needed, change Photo ID from legacy mode to standard mode. (requires manual operation for importing and assigning templates)
5. If needed, upgrade MySQL
6. Modify Backup service to include history and alarm databases if you want these present in your new system.
7. Backup the station (distribution backup)

Migration

1. From console (not workbench embedded) type the following command:
n4mig <path to station backup>
2. Select Template (JACE or Supervisor)
3. Enter the new N4 passphrase

N4 Station is migrated to the User Home

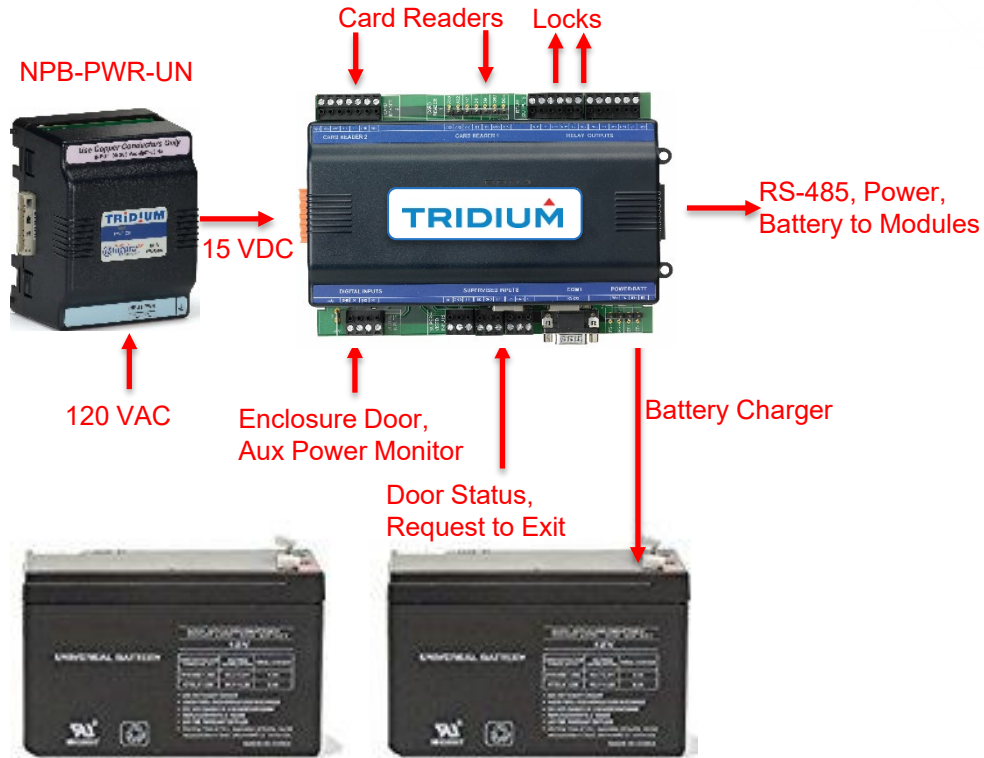
Post Migration

1. Use the station copier to copy the station from the user home to the localhost
2. Set station to Auto-Start
3. Additional Details are available in the “Niagara AX to N4 Migration Guide”. This guide is included with the Niagara Enterprise Security build, and also available at <https://docs.tridium.com/bundle/AXtoN4Migration/page/index.html>

Security JACE Replacement Steps

Security JACE replacement with JACE 8000

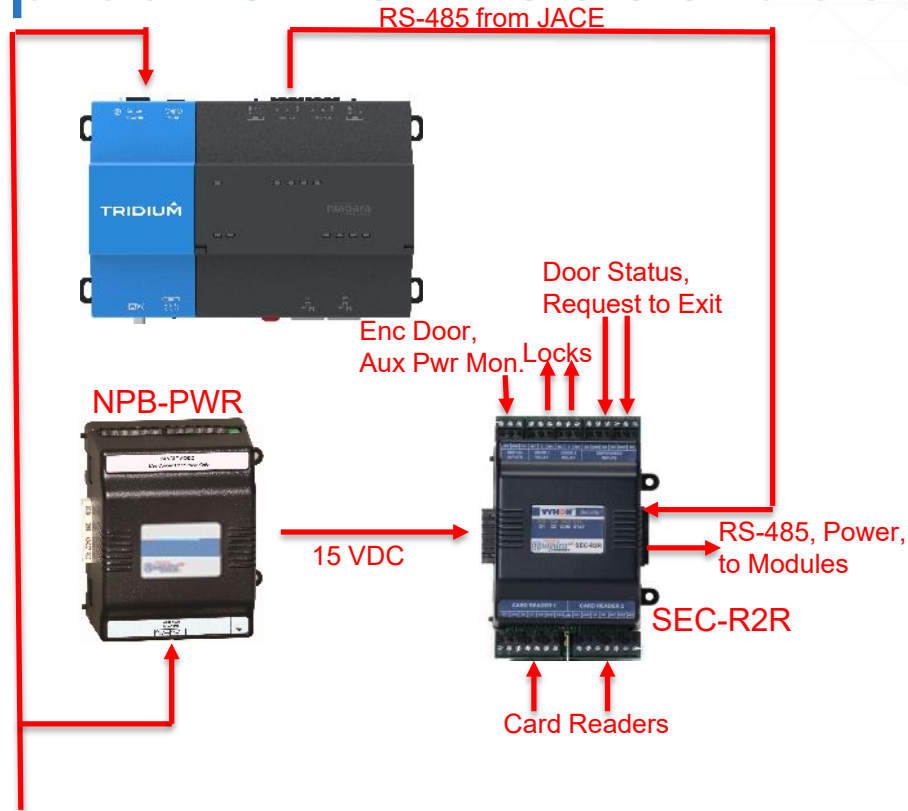
Typical Security JACE 6x,2x Installation



Features:

- 15 VDC Power to JACE
- On-board I/O for 2 security doors, 2 add'l security inputs, 2 add'l relay outputs, 3 DI
- Power and battery backup output to security modules
- On-board battery charger
- Battery and Power monitor service

Typical JACE 8000 used for Security



Features:

- 24 VDC battery-backed Power to the JACE.
- Software object for monitoring power automatically backs up the station. Power source must be monitored by an external module.
- 12-15 VDC power required for modules may be sourced from NPB-PWR connected to battery-backed 24 VDC power supply or 12 VDC battery-backed power supply.
- Special JACE platform for security no longer required. Security is a license option on the powerful, universal JACE 8000 platform.

Upgrade steps: preparation

1. Backup security JACE 6 station.
2. Note which access rights the readers on the BASE Board modules are mapped to.
3. Install the Security Application on the JACE 8000.
4. Copy the backed-up station to the JACE 8000.
5. Add an R2R module to the JACE 8000 offline.

Upgrade steps: points and readers

1. Map the physical points from the security JACE base board to the R2R modules.
2. If additional points are needed, map these to spare points that exist in other system modules, or add another module if needed.
3. Delete the base reader module from the JACE 8000 station.
4. Map the newly programmed readers to the appropriate access rights.

Upgrade steps: power

1. Add a “Power Panel” software object to the module whose physical points connect for monitoring the battery and primary power supply used for the JACE.
2. Remove the Security JACE, NPB-PWR-UN, and batteries from the enclosure.
3. Install the JACE 8000, NPB-PWR, and SEC-R2R in the enclosure. (There will be additional room in the enclosure where the batteries used to be.)
4. Install a 24 VDC battery-backed UL 294 listed power supply for the JACE and modules in the enclosure. Make sure to estimate the max power used by the JACE and modules, and allow 25% overhead.
5. Connect the NPB-PWR module to the 24 VDC power supply for the modules in the enclosure. **NOTE: Modules are powered from 12-15 VDC. Powering the modules from the 24 VDC power supply will damage the modules and may damage connected card readers!**

Upgrade steps: IO

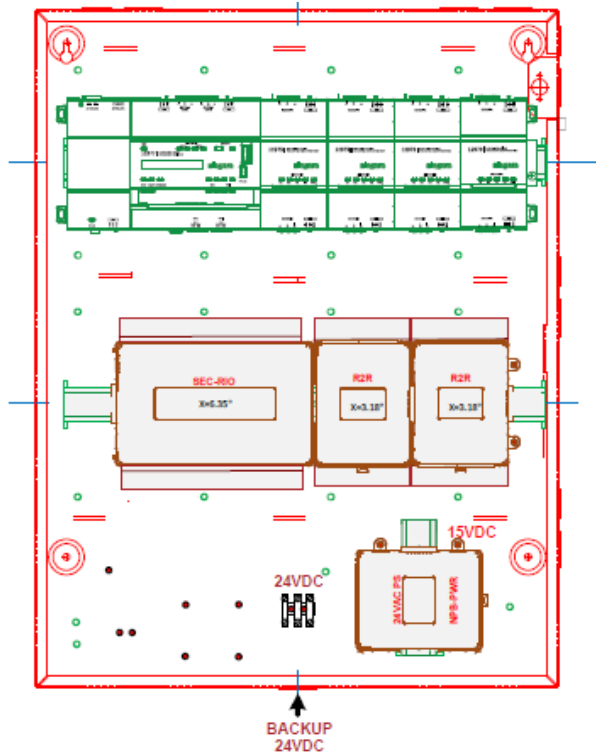
1. Connect the I/O that was wired to the security JACE to the SEC-R2R (and others if used).

Depending on cable length, you may be able to remount the connectors on the new module(s).

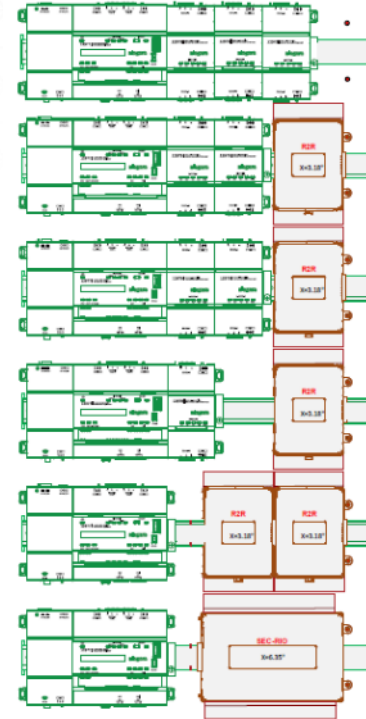
2. Discover new modules and match to the modules that were added off line.
3. Update the module firmware if needed.

Sample Layouts – Security/JACE 8000

Installed in Large Security Enclosure



Top Rail Installation options



Thank You

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