

NIAGARA SUMMIT

CONNECTING THE WORLD

Niagara Enterprise Security

Jayashree Madanala, Tridium Laura Kevitt, Tridium



Speakers

Jayashree Madanala - Tridium Technology Specialist

- 11 years in Software Industry
- Niagara Enterprise Security developer
 - LDAP integration
 - PhotoID integration
 - Platform Migration AX-N4
 - New Technologies

Laura Kevitt – Tridium Senior Product Manager

- 30 years in Buildings Business
 - Automation
 - Control
 - Security
 - Fire
- Manage Niagara Enterprise Security product







LDAP Integration

Database Integration APIs

Replacing a Security JACE 6 with a JACE 8000





LDAP Integration

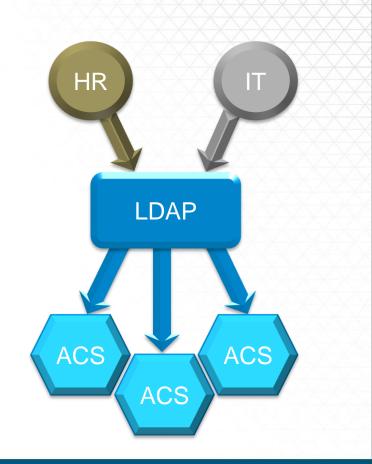
Why LDAP Integration? LDAP Introduction LDAP Servers Demo





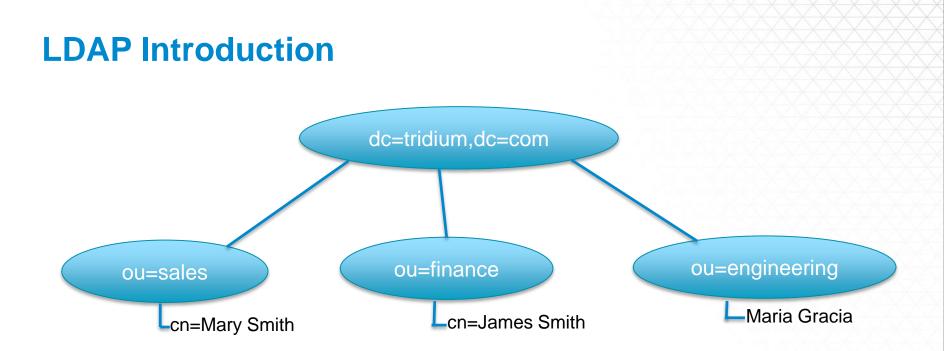
Why LDAP Integration?

- Single "Source of Truth" for managing Physical and Logical Access
 - One point of entry
 - Quickly remove access during layoffs
 - Manage a large dynamic workforce
 - Synchronize access in multiple systems
- Manage Large Dynamic Workforce
 - Hospitals
 - Schools
 - Cities













LDAP Servers

- Microsoft Active Directory
- OpenLDAP
- Apache DS
- Oracle Internet Directory
- IBM Security Directory Server
- NetIQ eDirectory





LDAP Integration Demo





Integration Database APIs

Purpose What standards are considered? Sample examples on how to use API's Demonstration on 3rd Party HID Integrator for Visitor Management – Easy Lobby





Purpose

- Integration with third party application databases
- Single application to manage workforce
- Remove employees from logical AND physical access
- Example integrations
 - Visitor Management
 - Human resource databases

REST APIs REST APIs

Enterprise Security Supervisor





Enterprise Security Database API Examples

- Create Person
- Create Badge
- Associate Badge to Person
- Associate Access Rights to Person
- Delete Person





Easy Lobby

- Check In/Out Visitors
- Track Visitor Status
- Manage Blacklists
- Options
 - Advanced Registration
 - License/Passport Scanners
 - Government Checklists
 - Special K-12 Pricing







Visitor Management – Database API's Integration Demo



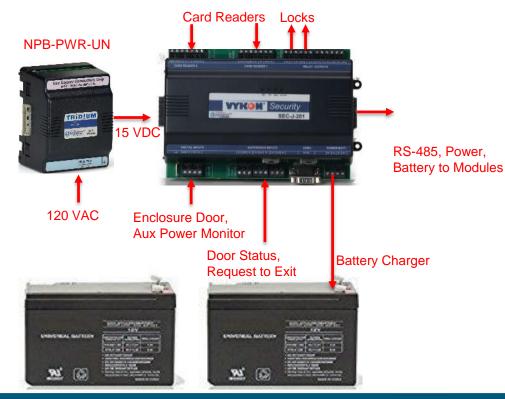


Replacing a Security JACE 6





Typical Security JACE 6x,2x Installation



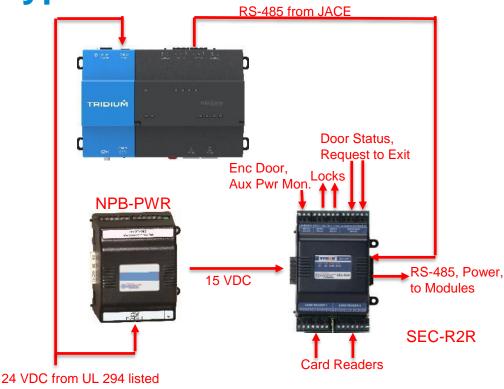
Features:

- 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

TRIDIUM 16



Typical JACE 8000 used for Security



Power Supply with batteries

NS Summit 18 CONNECTING THE WORLD 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.

TRIDIUM 17

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).

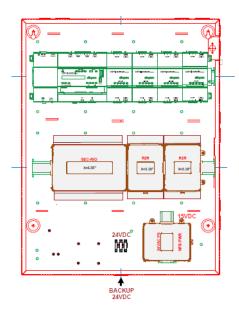
- 2. Discover new modules and match to the modules that were added off line.
- 3. Update the module firmware if needed.



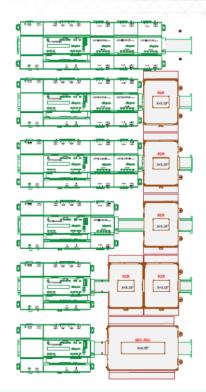


Sample Layouts

Installed in Large Security Enclosure



Top Rail Installation options







Thank You



