



JACE-3E

JACE-3E:

Tridium's new Battery-less small building controller



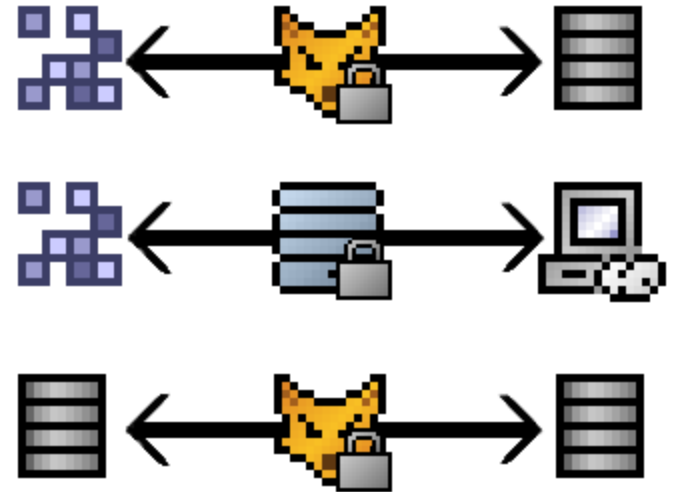
- Ideal for small buildings or distributed control in a large facility
- Functional replacement for JACE-2 with enhanced performance
- Niagara 4 Ready
- Enhanced IT security
- Battery-less operation
- Maximum operating temperature increased to 60°C
- Runs on Niagara 3.7.106 or later

Portfolio Comparison

JACE 2	JACE 3E	JACE 6E
Power PC @ 250MHz	Power PC @ 400MHz	Power PC @ 524MHz Math Co-Processor
128MB RAM	256MB RAM	256MB RAM
64MB Flash	128MB RAM	128MB RAM
IBM J9 VM	Oracle Hotspot VM	Oracle Hotspot VM
Battery required 1 minute backup	Battery not required 10 minute backup	Battery not required 10 minute backup
0-50°C	0-60°C	0-60°C
AX	AX & Niagara 4.0 ready	AX Niagara 4.0 ready
FCC Part 15 Class A	FCC Part 15 Class B	FCC Part 15 Class B

IT Security:

Niagara^{AX} 3.7 Crypto module



Features

- SSLv3/TLSv1
- Password Management
- Tools for managing 3rd party and self-signed certificates
- Certificates support PKI-based encryption

Additional Information on Securing Niagara Systems

- [TridiumTALK Archives](#)
- [Tridium Security Updates Page](#)
- [Security Central on Niagara Central](#) (login required)

3E Value with Niagara^{AX} 3.7.106

Battery-less Solution



Estimated savings: \$150

- No battery maintenance
- Opportunity for JACE solutions on sites sensitive to batteries.
- Easy access to option card slots.

Optional Battery



Estimated savings: \$60-\$100

- Provides comparable backup time to a UPS
- Optional battery is easy to install and saves time over adding a UPS based solution.
- Reduces chance of miswiring

+

Niagara Workbench

File Edit Search Bookmarks Tools Window Help

about.html

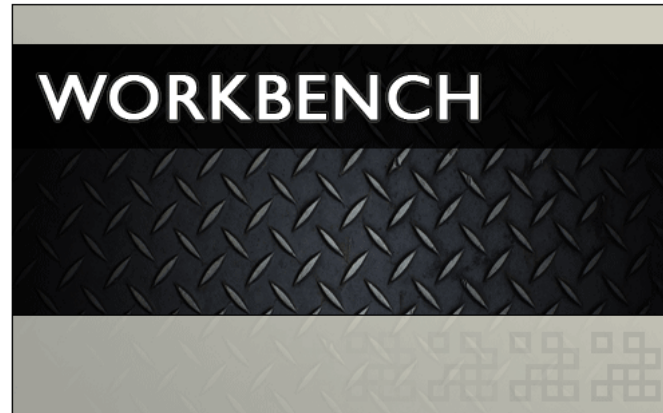
Nav

My Network

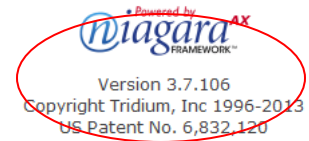
- My Host : VA51LT79NC#R1
 - 192.168.1.120 (demo)
 - Platform
 - Station (demo)
 - Home
 - Config
 - Files
 - History
 - 192.168.1.128 (demo)

Niagara Workbench

Licensed to Office Demo, Tridium



[Getting Started](#) | [Help Contents](#)



Version 3.7.106
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US Patent No. 6,832,120

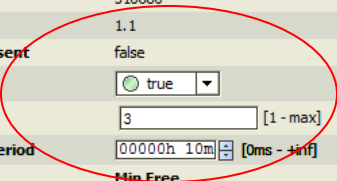
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Nav

My Network

- My Host : VA51LT79NC4R1
 - 192.168.1.120 (demo)
 - Platform
 - Station (demo)
 - Home
 - Graphics
 - Alarming
 - Reports
 - Schedule
 - History
 - User Service
 - Config
 - PxHome
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 - CategoryService
 - BackupService
 - WeatherService
 - PlatformServices
 - SerialPortService
 - PowerMonitorService
 - DataRecoveryService
 - NtpPlatformServiceQnx
 - TcpIpPlatformService
 - LicensePlatformService
 - Drivers
 - Apps
 - Logic
 - Sampler
 - Programs
 - Playground
 - Files
 - History
 - 192.168.1.128 (demo)

Name	demo																		
Host	192.168.1.120 (demo)																		
Model	NPM3																		
Host ID	Qnx-NPM3-0000-1689-1E10																		
Niagara Version	3.7.106.1																		
Java VM Name	Java HotSpot(TM) Client VM																		
Java VM Vendor	Sun Microsystems Inc.																		
Java VM Version	1.5.0_34-b28																		
OS Name	QNX																		
OS Arch	ppc																		
OS Version	6.4.1																		
Platform Daemon Port	3011																		
Platform Daemon SSL Port	Unknown																		
Locale	en																		
System Time	16:53																		
Date	19-Jul-2013																		
Time Zone	America/New_York (-5/-4)																		
Engine Watchdog Policy	Terminate																		
Engine Watchdog Timeout	00000h 01m [0ms - +inf]																		
Enable Station Auto-Save	<input checked="" type="checkbox"/> Enable																		
Station Auto-Save Frequency	00024h 00m [0ms - +inf]																		
Station Auto-Save Versions to Keep	0																		
Number of CPUs	1																		
Current CPU Usage	16%																		
Overall CPU Usage	53%																		
Filesystem																			
	<table border="1"><thead><tr><th></th><th>Total</th><th>Free</th><th>Block Size</th><th>Files</th><th>Max Files</th></tr></thead><tbody><tr><td>/ffs0</td><td>124,928 KB</td><td>70,366 KB</td><td>2,048 bytes</td><td>984</td><td>4096</td></tr><tr><td>/aram0</td><td>15,744 KB</td><td>14,893 KB</td><td>1,024 bytes</td><td>23</td><td>4096</td></tr></tbody></table>		Total	Free	Block Size	Files	Max Files	/ffs0	124,928 KB	70,366 KB	2,048 bytes	984	4096	/aram0	15,744 KB	14,893 KB	1,024 bytes	23	4096
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Physical RAM																			
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	262,144 KB	140,500 KB																	
Serial Number	510680																		
Hardware Revision	1.1																		
Hardware Jumper Present	false																		
Battery Present	<input checked="" type="radio"/> true																		
Failure Reboot Limit	3 [1 - max]																		
Failure Reboot Limit Period	00000h 10m [0ms - +inf]																		
RAM Disk																			
	<table border="1"><thead><tr><th></th><th>Min Free</th><th>Size</th><th>Status</th></tr></thead><tbody><tr><td></td><td>5 % [0 - 100]</td><td>16 [1 - max] MB</td><td>Ok</td></tr></tbody></table>		Min Free	Size	Status		5 % [0 - 100]	16 [1 - max] MB	Ok										
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Primary Power Settings

Primary Power Present Yes

Shutdown Delay Time 000000h 10m 00s [0ms - 10mins]

Power Alarm Support ▾

Battery Settings

Battery Charging 17hours 48mins

Battery Good No

Battery Time Of Last Test 19-Jul-13 4:44 PM EDT

Battery Alarm Support ▾



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Data Recovery Settings

Service Enabled	<input checked="" type="checkbox"/> true
Service Status	Ready
Last Station Save Time	19-Jul-2013 04:48 PM EDT
Last Station Save Successful	<input checked="" type="checkbox"/> true
Persistent Storage Size	243.96 KB [0.00 - +inf]

Blocks Configuration

Total Size	524288 B [0 - max]
# Data Recovery Blocks	3 [2 - 8]
Active Directory	/sramopt
Persistent Directory	/ffa0/niagara/stations/demo/da
Full Policy	Flush
Persistent Capacity	Storage Size 7036 KB

Data Recovery Blocks

Data Recovery Block 1

Status: Idle

Capacity: 164448 B Used: 0 B Overhead: 0 B Free: 164448 B

Data Recovery Block 2

Status: Idle

Capacity: 164448 B Used: 0 B Overhead: 0 B Free: 164448 B

Data Recovery Block 3

Status: Active

Capacity: 164448 B Used: 17975 B Overhead: 11737 B Free: 134736 B

Data Recovery Legend

■ Used Space ■ Overhead Space □ Free Space

Refresh Save

Freedom from Batteries

What should you consider?

- Battery Maintenance
 - Local Regulations
 - Frequency of Station Saves
 - Available Flash Space
 - Non-Critical Config Flag
 - COV
 - Power Quality
 - Ride through
 - Reboot Time
-
- [JACE Data Recover Service document](#)
Niagara Central Login Needed





JACE-3E: Released

JACE-2 Begins EOL Phase-out: September 1st 2013

JACE-2 Last Order Date Tridium accepts orders: March 1st 2015

JACE-2 Last Shipments from Tridium Factory: September 1st 2015

Part #	Description
T-300E	Includes 256MB RAM, 128MB Flash, 2 10/100 Mb Ethernet ports, 1 RS-485 serial port, 1 RS-232 serial port, NDIO port, 2 communication card option slots, and SRAM module. Standard features include Niagara station and Web User Interface. Standard drivers include oBIX Client / Server and Niagara Network (Fox) Client / Server. Requires AX release 3.7.106 or higher.
NPM-256	Memory Upgrade for JACE 3E. Java HEAP is expanded to 96MB
T-3XXE-AX-KIT	Tridium JACE 300E Demo Kit: Includes T-300E with Demo license. Requires AX release 3.7.106 or higher.