

Nexus2[™]

Hardware Installation Guide



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SECTION 1 : OVERVIEW

This chapter provides an overview of the **Aspect[®] Nexus 2** system as well as optional modules.



Front Panel (LED indicators)

Bottom Panel (ports)

		R5485 Terminate Blas Terminate Blas
		BA22 BA2 BA2 </th
1	Earth ground	Connect the grounding cable to the system.
2	Port A	Unused
3	Port B	Unused
4	Port C	Unused
5	RS485 port 1	Connect a RS485 fieldbus.
6	RS485 port 2	Connect a RS485 fieldbus.
7	USB 1 port	Connect a USB 3.0 device.
8	Network 1 port	Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or internet access.
9	Port D	Unused

Bottom Panel (DIP switches)



1	RS485 port 1 resistor switch	Enable/disable the differential termination resistor for RS485.
2	RS485 port 1 bias resistor switch	Enable/disable the bias resistor for RS485 port 1.
3	RS485 port 2 resistor switch	Enable/disable the differential termination resistor for RS485.
4	RS485 port 2 bias resistor switch	Enable/disable the bias resistor for RS485 port 2.

Top Panel



1	Mobile broadband antenna port (port one)	Unused
2	Micro-SIM card slot	Unused
3	Mobile broadband antenna port (port two)	Unused
4	Wi-Fi antenna port (port three)	Unused
5	Intrusion detection connector	Unused
6	Wi-Fi antenna port (port four)	Unused
7	HDMI port	Connect a monitor or other HDMI device. Provides video and audio output. Note: In order to function the HDMI must be connected when the system boots.
8	USB 2.0 port	Unused
9	USB 2.0 port	Unused



Left Edge

Note: When the Nexus 2 is shipped from the factory, both power connectors are covered by a warning label. Make sure this label is completely removed before using the Nexus 2.

1	Power module expansion port	Unused
2	24 V AC/DC power Phoenix connector	Connect a 24 V AC/DC power connector to provide power to your system.
3	19.5 V DC power adapter port	Connect a 19.5 V DC power adapter connector to provide power to your system.

Note: Nexus 2 requires a dedicated SELV 24 V 60VA AC / DC supply (Class II supply) or a dedicated Dell SELV 19.5 V 65 W PSU.

The recommended supply is a 24 V 60 VA transformer. When using a higher VA transformer, care must be taken to ensure that the voltage stays within specification (see *Detailed Engineering Specifications - Power* on page 16).

Warning:

Earthing or Grounding of any of the terminals connected to the SELV power supply will cause serious damage to the power supply rectifier and will invalidate the product Warranty.

Never Earth or Ground any of the terminals connected to this power supply.

Never use this power supply to power CB, NB, or SBC control devices, **or any other** equipment, because it is possible that the other equipment may be connected to Earth or Ground.

Note: If the Nexus 2 is acting as a Site's central server, hosting the primary UI and historical data, it is recommended that its power supply is connected to an Uninterruptible Power Supply (UPS).

Right Edge

1 IO expansion port

Unused

SECTION 2 : INSTALLATION AND CONFIGURATION

Note: The information in this chapter provides an overview of the installation and configuration requirements of the **Aspect**[®] **Nexus 2**. The **Aspect**[®] **Nexus 2** is designed for specific applications and needs to be installed by qualified personnel with RF and regulatory-related knowledge. For full installation instructions, see the **Aspect**[®] **Nexus 2** Installation and Operation Manual that ships with the product.

Powering on the Aspect[®] Nexus 2

- Install the Aspect[®] Nexus 2 on the wall mount using a wall mounting kit, or Install the Aspect[®] Nexus 2 on the rack infrastructure using <u>DIN-rail mounting</u> <u>brackets</u>.
- 2. Connect a network cable.
- Connect a SELV/limited energy circuit power source (24 V AC/DC or 19.5 V DC) to the Aspect[®] Nexus 2 and press the power button to turn it on.



Warning:

Earthing or Grounding of any of the terminals connected to the SELV power supply will cause serious damage to the power supply rectifier and will invalidate the product Warranty.

Never Earth or Ground any of the terminals connected to this power supply.

Never use this power supply to power CB, NB, or SBC control devices, **or any other** equipment, because it is possible that the other equipment may be connected to Earth or Ground.





4. Connectand configure devices using the RS485 ports.

 ${\bf Note:} \\ {\rm Turn} on the corresponding dipswitches to enable the network bias and termination.$

Note: After the **Aspect**[®] **Nexus 2** setup is complete, reinstall the dust covers on any unused ports.

Mounting the Aspect® Nexus 2 on the wall

You can mount the **Aspect[®] Nexus 2** on a wall by using mounting brackets (sold separately).

- 1. Secure the two mounting brackets to the back of the **Aspect**[®] **Nexus 2** by using four screws.





3. Tighten the screws to secure the **Aspect[®] Nexus 2** to the wall.



Mounting the Aspect® Nexus 2 on a DIN rail

The **Aspect[®] Nexus 2** can be mounted on a DIN rail. The DIN rail bracket mounts to the back of the **Aspect[®] Nexus 2**.

 Align the screw holes on the DIN rail mount to the back of the Aspect[®] Nexus 2, place the screws on the DIN rail mount and secure it to the Aspect[®] Nexus 2.

2. Pull down on the tab to release the latch on the DIN rail mount.

3. Mount the Aspect[®] Nexus 2 on a DIN rail.

4. Secure the **Aspect[®] Nexus 2** to the DIN rail by pressing the latch.



SECTION 3 : DETAILED ENGINEERING SPECIFICATIONS

Dimensions and weight

Product dimensions and weight

Volume (Liters)	3.167 liters
Weight	3.0 kg (6.6 lb)
Height	228.4 mm (8.99 in)
Width	216 mm (8.50 in)
Depth	64.20 mm (2.52 in)

Note: The dimensions for the enclosure do not include the latches and wall bracket on the back of the enclosure. The wall bracket adds 5 mm (0.04 inches) to the depth.

Packaging dimensions and weight

Height	344 mm (13.56 in)
Width	295 mm (11.63 in)
Depth	156 mm (6.13 in)
Shipping weight (includes packaging materials)	3.8 kg (8.38 lb)

Mounting dimensions

Height	246 mm (9.69 in)
Width	228.4 mm (8.99 in)
Depth	72.7 mm (2.86 in)

Environmental and operating conditions

Ingress protection rating	IP50	
Temperature range		
Operating (with a maximum temperature gradation of 15°C per hour)	0°C 50°C (32°F 122°F) when connected to a 24 V AC/DC power source. 0°C 40°C (32°F 104°F) when connected to a power adapter.	
	Note: The maximum operating temperature is derated 1°C/305 m (1000 ft) above sea level altitude.	
Non-operating (with a maximum temperature gradation of 15°C per hour)	-40°C 70°C (-40°F 158 °F)	
Relative humidity (maximum):		
Operating (with maximum humidity gradation of 10% per hour)	10% 90% (non-condensing)	
Non-operating (with maximum humidity gradation of 10% per hour)	5% […] 95% (non-condensing)	
Altitude (maximum, unpressurized):		
Operating	-15.20 m 5000 m (-50 ft 16,404 ft) Note: The maximum operating temperature is derated 1°C/305 m (1000 ft) above sea level altitude.	
Storage	-15.20 m 10,668 m (-50 ft 35,000 ft)	

Power

Power adaptor (optional)

• General parameters

Power supply	EPS Level V
Wattage	65 W
AC input voltage range	90-264 V AC
AC input current (low AC range/high AC range)	1.7 A/1.0 A
AC input frequency	47 Hz/63 Hz
Average efficiency (ESTAR 5.2 compliant)	87%

• DC parameters

+19.5 v output	19.5 V/ 3.34 A
Total power (maximum)	65 W
BTUs/h (based on PSU max wattage)	222 BTU

• Power-input tolerances

24V AC/DC	+10% to -25% (26.4 V to 18 V)
-----------	-------------------------------

Note: The recommended supply is a 24 V 60 VA transformer. When using a higher VA transformer, care must be taken to ensure that the voltage stays within specification.

Warning:

Earthing or Grounding of any of the terminals connected to the SELV power supply will cause serious damage to the power supply rectifier and will invalidate the product Warranty.

Never Earth or Ground any of the terminals connected to this power supply.

Never use this power supply to power CB, NB, or SBC control devices, **or any other** equipment, because it is possible that the other equipment may be connected to Earth or Ground.

Communications—**Ethernet**

General specifications	
Ethernet type	Ethernet LAN 10/100/1000
External connector type	RJ45
Data rates supported	10/100/1000 Mbps

Hard drives - M.2 SATA 64GB SSD

General specifications	
Capacity (bytes)	64 Gb
Dimensions inches (W x D x H)	3.94 x 2.75 x 0.374
Interface type and maximum speed	Up to 6 Gb/s (SATA 3.0)
MTBF	800,000 hours
Logical blocks	500,118,192

SECTION 4 : SOFTWARE CONFIGURATION

Note: The following provides instructions relative to the configuration settings of the **Aspect**[®] **Nexus 2**. Please read through this section carefully before beginning the installation procedure.

INTRODUCTION

The following provides details on the software configuration of the **Aspect[®] Nexus 2** hardware. Please follow the steps contained within this document for proper setup and configuration.

TOOLS REQUIRED

The following tools will be required for proper configuration of the system:

- PC/Laptop
- Ethernet cross-over cable, or other network connection to your Aspect[®] Nexus 2
- Standard web-browser such as Windows Internet Explorer, Mozilla Firefox, Apple Safari, or other.
- Aspect[®] Nexus 2 License file pre-installed
- 24VAC power source

CONNECTING TO AN Aspect® Nexus 2

The **Aspect**[®] **Nexus 2** is shipped with a default IP address (192.168.1.251) and subnet mask (255.255.255.0). Your computer's network card must be configured in a manner where it may access this IP network setting. Refer to your operating system documentation for details on how to configure your network card.

LOG-IN

To log-in to the **Aspect[®] Nexus 2**:

- 1. With your PC's network card configured, open any standard web browser.
- 2. Browse to the default IP address (192.168.1.251) of your Aspect® Nexus 2.
- 3. If your connection is successful, you should be greeted with the main page of the server, requiring username and password entry.
- 4. Enter the case-sensitive default username (aamuser) and password (default) into the fields provided.
- 5. Click the *Log In* button.

Username
Password
Log In

Figure 2-1 Aspect® Nexus 2 Log-In

CONTROL PANEL

When you successfully log-in, you will be directed to the Control Panel. The Control Panel contains a navigation tree to the left of the web user interface; allowing users to select different configuration areas of the product.





PROJECT INSTANCES

Two instances are available within the **Aspect**® **Nexus 2**. This provides the capability to host up to two projects within the target. Each instance runs its own Aspect Control Engine allowing service to be performed on separate instances. Within Instance 1 and Instance 2, the same options exist for the following:

- Calendar Configuration
- Users and Groups
- Mobile
- Instance Services
- Project Source
- Project Removal
- Aspect Control Engine Logs
- License Item Status
- Project Thread Status

CALENDAR CONFIGURATION

The Calendar Configuration area is used to configure iCalendar integration variables of the Aspect® Nexus 2. Within this section there are two pages:

- Calendar File
- Calendar User

CALENDAR FILE

Calendar File can be used to browse and modify what calendars have been previously published to the instance, as well as allow users to manually upload iCalendar files (files with .ics extensions) to the device.

- To upload a saved calendar file, simply select the *Browse/Choose File* button and locate the iCalendar file on your computer. Once located, click the Upload button.
- To delete a previously published calendar, place a check mark next to the corresponding file and select the *Delete* button.

😼 Aspect Control Panel	Calendar File Management
ia Instance 1 Application ⊕ Users and Groups	Upload and manage calendar files stored on this device. Calendar User credentials must be provided in order to download a calendar.
Galendar File	Calendar file (.ics): <u>Choose File</u> No file chosen <u>Upload</u>
Calendar User	Calendar .ics files: Date Modified Delete Monday thru Friday 8to5 Calendar.ics July 27 2011 14:59:42 Delete
Aspect Control Engine Log License Item Status Project Thread Status	
Database Management Licensing Modem Configuration Communication Setup	
Gimple Mobile Web Configuration Gystem Administration System Logs	

Figure 2-3 Calendar File Management

CALENDAR USER

Calendar User provides the ability to change the default username and password credentials that are required to allow iCalendar-based tools to publish data to the **Aspect® Nexus 2**. By default, the username (*calendar*) and password (*user*) can be changed to any desired credential set. When referencing Calendars in Aspect Studio, these credentials must be specified in order to properly access the file.

S Aspect Control Panel	Calender Configuration
Ginstance 1	
- Chapplication	Use the following form to configure the Calender username and password.
🕀 🛅 Users and Groups	
😟 🦳 Maverick	Username calendar
🕀 🗀 Mobile	
🗄 😋 Calendar Configuration	Password
Calendar File	Confirm Password
Calendar User	
- O Instance Services	Submit
- Persistence Manager	
- Project Source	
Project Removal	
- dlicense Item Status	
- Q Project Thread Status	
Instance 2	
🕀 🗀 Database Management	
🕀 🗀 Licensing	
Modem Configuration	
Communication Setup	
🐵 🗀 Simple Mobile Web Configuration	
System Administration	
System Logs	

Figure 2-4 Calendar User Configuration

MOBILE

Administration of vSTAT users is accomplished through the Aspect Control Panel (WebUI) of an Aspect target. When logging in as an administrative user, a Mobile folder is present under each licensed instance of Aspect. The page provides the ability to download the current vSTAT configuration.

vSTAT configuration is downloaded as a .CSV file, which can be edited with any standard spreadsheet program such as Microsoft Excel, or even a text editor. To download the current configuration, click the download button and follow your browser's prompts to save the file locally to your PC.

Next Control Panel Load new vStat configuration: Instance 1 Choose File Application Choose File Were and Groups Download current vStat configuration: Mobile Download Calendar Configuration Download	
Orsistance Services Orsistance Manager	spect Control Panel Instance Services Calendar Configuration Choose File No file chosen Upload Devent and Groups Calendar Configuration C

Figure 2-5 vSTAT Configuration

HTML5 Dashboard

In order to access the AutoMagic HTML5 User Interface, navigate to the Aspect Control Panel (WebUI) of an Aspect target. When logging in as an administrative user, a Mobile folder is present under each licensed instance of Aspect. To open the AutoMagic UI, expand the Mobile group and select AutoMagic.

Click the "Click to open AutoMagic UI" link to open the AutoMagic UI.

🛃 Aspect Control Panel	^	
🖻 😋 1 - WorldwideDemo		AutoMagic UI is supported in this project
		Click to open AutoManic III
- 🧭 WorldwideDemo HTML		Cirk to open Aspect naAdmin
🖻 🚞 Users and Groups		
🗄 🧰 Maverick		Download current AutoMagic configuration
😑 😋 Mobile		
🏓 AutoMagic		Download
🔒 vStat		
Calendar Configuration		
😳 Instance Services		
- i Project Source		
🗄 🧰 Instance 2		
🗉 🗀 Database Management		
🗄 🚞 Licensing		
🗄 🚞 Modem Configuration		
🗄 🚞 Communication Setup		
🗄 🧰 Simple Mobile Web Configural		
🖾 🦰 Svetam Administration		

Figure 2-6 AutoMagic UI

USERS AND GROUPS

Users and Groups are included within each instance in the Aspect® Nexus 2. This provides the ability to manage users in the Aspect control instance it serves.

S Aspect Control Panel	User Manag	er	
🖻 😋 Instance 1	-		
Application	Add, edit, and	delete users.	
🗄 🦳 Users and Groups			
Groups	Add User Print	Users	
H C Maverick	User	Groups	Delete
🖽 🦳 Mobile	aamuser	MIXAdmin	Π
🗈 🦳 Calendar Configuration			
- O Instance Services	Delete		
Persistence Manager			
Project Source	-		
- Project Removal			
Aspect Control Engine Log			
- de License Item Status			
Q Project Thread Status			
🗉 🧰 Instance 2			
🗄 🛅 Database Management			
🗉 🛅 Licensing			
🖻 🛅 Modem Configuration			
🗈 🛅 Communication Setup			
🗄 🛅 Simple Mobile Web Configuration	1		
🖻 🛅 System Administration			
🖻 🛅 System Logs			
PERSONAL PROPERTY AND ADDRESS			

Figure 2-7 Instance Based Users and Groups

INSTANCE SERVICES

The Instance Services provides users with the ability to restart the Aspect Control Engine for the instance they are working with. Only one option is available in the Instance Services drop-down which will allow the instance to be reset.

SAspect Control Panel	System Services
Application	Start, stop, and restart services.
Groups	Service Aspect Control Engine 1 - Restart
🕒 🔒 Users 🕀 🦳 Maverick	Submit
Mobile Calendar Configuration	
Instance Services	
Project Source	
License Item Status	
Generation Generatio	
Communication Communication Setup	
Simple Mobile Web Configuration	
System Logs	

Figure 2-8 Instance Services

PERSISTENCE MANAGER

The Persistence Manager area is used to manage and delete Persisted data. Persisted data is localized data stored from Persisted Elements that may be present in an Aspect project, as well as data persisted by vSTAT elements when such functionality is implemented in a delivered solution.

Sapect Control Panel	Manage Persisted Items			
🖹 😋 Instance 1				
Application	Delete selected objects Delete all vMobi	le Objects	Delete all Objects	
Users and Groups	wMobile Persisted Properties Delete	1		
Maverick	No Itoms Prosent			
H ODIE	No Items Present	1		
Instance Services	Persisted Items	Delete		
Persistence Manager	AlarmEmailer1/PersistedValue			
	AlarmEmailer1/PersistedValue0			
Project Removal Aspect Control Engine Log	AlarmEmailer1/Recipient_Email			
Aspect Control Lighte Log Control Lighte Log Project Performance	NightPurge1/PersistedValue1402248			
	NightPurge1/PersistedValue140224849			
Instance 2 Database Management	NightPurge1/PersistedValue1404			
Licensing	NightPurge1/PersistedValue28			
Modem Configuration Communication Setup Simple Mobile Web Configuration System Administration Gystem Logs	OptimumStart1/ClgSP			
	OptimumStart1/Enable			
	OptimumStart1/HtgSP			
	OptimumStart1/OccValue			
	OptimumStart1/SearchSP			

Figure 2-9 Persistence Manager

PROJECT SOURCE

The Project Source page provides administrators with the ability to download a password protected copy of the Aspect project deployed to the Instance. When selecting this in the Control Panel, you will be prompted to reenter your credentials in order to download a copy of the project.

The required credentials will be the same as the ones used to originally deploy the project.

😼 Aspect Control Panel	Deployed Project Inf	Deployed Project Information								
Application	Project Name	Deployment Date	Archive Size							
🗈 🧰 Users and Groups	test 10803.zip	2013-04-11 09:40:47	679.2 KB							
Maverick	Linner									
The Calendar Configuration										
o Instance Services										
Persistence Manager										
Project Source										
Aspect Control Engine Log										
License Item Status										
Project Inread Status										
Database Management										
Licensing										
Modem Configuration										
🗉 🛅 Communication Setup										
🗈 🛅 Simple Mobile Web Configuration										
🗈 🚞 System Administration										
🗄 🛅 System Logs										



PROJECT REMOVAL

The project removal page provides administrators the ability to remove a currently deployed project from an Aspect instance.



Figure 2-11 Project Removal

ASPECT CONTROL ENGINE LOG

The Aspect Control Engine log provides administrators and technicians the ability to view project status and debugging information relating to the health of the deployed Aspect project. Up to 10 pages of Aspect logs are contained and individual logs can be downloaded.



Figure 2-12 AspectFT Control Engine Logs

LICENSE ITEM STATUS

The License Item Status area provides the ability to view how many current license items a project may be using, as well as the maximum amount of licenses available for a particular feature or function.





PROJECT PERFORMANCE

The Project Performance area provides the ability to dynamically view and monitor the status of Threads, Maps, and Ports being used by the Aspect project loaded into the target.

By default, the all Tabs will update information every 15 seconds. You may adjust this update timer by choosing the Settings tab, and changing the Global Settings Update time.

Aspect Control Panel Aspect Control Panel Aspect Control Panel Aspect Control Panel Aspect Control Aspect Control Aspect Control Maverick Aspect Configuration Calendar Configuration Instance Services	Threads Ma Thread Sta Total Timers Total Targei	ps tus a 6: 9 (s: 30	Port Pool 5	ettings GMT-0400) (Eastern D	aylight Time	2)			
Persistence Manager Project Source			Timebase	Target Class	HashCode	Target Count	ElapsedTime (ms)	Last Tick Time (s)	Load 🚽	
		0	60.0	Schedule	1082029522	1	163	59.4s ago	0.27%	
Clicense Item Status Project Performance Database Management Licensing Modem Configuration Communication Setup Simple Mobile Web Configuration System Administration System Logs		0	14.0	Default	1288520654	1	19	3.7s ago	0.14%	
		0	1.0	Default	1579795854	12	1	0.3s ago	0.10%	
		٢	2.0	Default	453897055	4	1	0.3s ago	0.05%	
		٢	15.0	Schedule	1602698930	1	2	2.8s ago	0.01%	
		٢	3600.0	Default	1511627065	2	0	2013.2s ago	0.00%	
	(٥	600.0	Default	1192380230	3	0	231.6s ago	0.00%
		٢	300.0	Default	1725603492	3	1	129.2s ago	0.00%	
		0	15.0	Default	1877445782	3	0	5.6s ago	0.00%	

Figure 2-14 Project Performance Threads

DATABASE MANAGEMENT

Database Management is the centralized location for all database storage and contains paths to MySQL Administration and SQLite Maintenance.

MYSQL ADMINISTRATION

The MySQL Administration page provides users with a link to access the phpMyAdmin side of the Aspect server target and contains the MySQL Database Server. Once accessed, users will be challenged with login credentials. The default, case sensitive, credentials are:

- Username *matrixac1*
- Password *aam*

<u>File Edit View History Bookn</u>	arks <u>W</u> indow <u>H</u> elp
C + A	n Q ⊸ Google
Area Controller Toaster	
phpMyAdmin	😝 Server: Matrix Server 🕨 👜 Database: export 🕨 🏢 Table: LunchRoom
a 💀 🖾	Browse Structure & SQL PSearch Hinsert Export Import Operations Empty Drop
Database	
export (11)	i Showing rows 9750 - 9779 (10,064 total, Query took 0.0036 sec)
export (11)	- 201 guoge
alarms EmployeeBreakRoom Engineering ExecRooms	Steer* FROM LunchRoom' Limit 9760.30
LunchRoom	Profiling [Edit] [Explain SQL] [Create PHP Code] [Refresh]
Operations ServerRoom TechServices Training TrainingLunch	(<< (show:) 30 row(s) starting from record # 9780 >>> Page number: in horizontal repeat headers after 326 repeat headers after 100 cells
	← → ReadingTime DamperPos ZoneTemp
	□ 🖉 🗙 2009-04-22 06:09:00 64 70
	□ 2 × 2009-04-22 06:10:00 64 70

Figure 2-15 phpMyAdmin

SQLITE MAINTENANCE

The SQLite Maintenance page provides users with the ability to manage the SQLite database. This page shows the database files and sizes.

LICENSING

The license page provides the ability to view the current license status of the **Aspect**® **Nexus 2** as well as a method to upload/download license files. If a license file is uploaded, Cylon Controls recommends rebooting the **Aspect**® **Nexus 2** to ensure the license file is successfully applied.

S Aspect Control Panel	License Management	
erInstance I erInstance 2 erDatabase Management erLicensing constructions	Hardware ID: 6508aef1 License ID: 6508aef1 License ID Match License Signature Valid	
Modem Configuration Communication Setup Simple Mobile Web Configuration System Administration	Upload license file: Choose File No file chosen	Upload
🗈 🛅 System Logs	Contents of license file:	<u>Download</u>
	# AAM Aspect Nexus license file # General Information DateGenerated = 04/19/2012 HardwareType = 501 Dealer = American Auto-Matrix SiteID = Tech Sumort	

Figure 2-16 License Management

COMMUNICATION SETUP

The Communication Setup page provides administrators the ability to configure manual Out of Service entries, SDP Network Properties, BACnet IP Router, BBMD and Time Synchronization settings.

OOS MANAGER

The OOS Manager provides a single location that allows administrators to manually mark devices out of service using the Manual OOS check boxes.

 Aspect Control Panel Instance 1 Instance 2 Database Management 	Commit OOS Settings PUP Devices]	
Continue of the second se			Search:
E 🔁 Communication Setup	Device	Last Transaction	OOS Manual OOS
	Line:0 ID:11305	60s	
	Line:0 ID: 64	60s	
🗄 🧰 BACnet	Line:0 ID: 100	60s	
Simple Mobile Web Configuration System Administration	Line:0 ID: 9934	60s	
⊕ _ System Logs	Line:0 ID:15163	60s	
	BACnet Devices		🚽 Previous Next
			Search:
	Device	Last Transaction	OOS Manual OOS
	Network: 3691 ID:0.0.0.0:	14 46s	
	Network: 3691 ID:0.0.0.0:	5 1s	
			Previous Next

Figure 2-17 OOS Manager

SDP CONFIGURATION

The SDP Configuration page is used to configure network properties. These properties include read/write retries, the Out of Service timer and the timeout period.

Aspect Control Panel Gamma Instance 1 Application	SDP Network Properties Configure the SDP Network properties.	
Users and Groups Groups Users Waverick Calendar Configuration Calendar Configuration Project Source Project Source Aspect Control Engine Log	SDP Timeout (seconds) 0.5 v SDP Write Retries 1 v SDP Read Retries 1 v SDP Out Of Service Time (seconds) 60 v Submit Submit	
Database Management Database Management Disclose Management Modem Configuration Communication Setup OF Configuration Modem Configuration B Simple Mobile Web Configuration Simple Mobile Web Configuration System Administration System Logs		

Figure 2-18 SDP Configuration Properties

BACNET SETTINGS

The BACnet Configuration area permits configuration of read/write retries, port configuration, and router settings for BACnet/IP.

t Control Panel stance 1	BACnet Configuration						
2	BACnet IP Configuration						
anagement	UDP Port	47808					
figuration	IP Timeout (seconds)	0.5					
Configuration	IP Write Retries	1-					
	IP Read Retries	1.					
Cnet Settings MD Settings	IP Out Of Service Time (seconds)	60 💌					
Sync Settings	IP Discovery Timeout (seconds)	3 💌					
dministration	BACnet MSTP Configuration						
System Logs	MSTP Timeout (seconds)	1.0 💌					
	MSTP Write Retries	1					
	MSTP Read Retries	1					
	MSTP Out Of Service Time (seconds)	60 💌					
	BACnet Router Configuration						
	Device Name	NexusX					
	BACnet Device Instance Number	541					
	BACnet Ethernet Enabled	No					
	BACnet IP Enabled	Yes -					
	BACnet IP Network Number	555					
	BACnet Internal Network Number	2651					
	BACnet NAT Network Enabled	No					
	Router Debug Level	1					
	BACnet Debug Level	1					
		Submit					
	h						

Figure 2-19 BACnet Router Configuration

BBMD SETTINGS

The BBMD settings area is used to configure the BBMD table setup for BACnet networks.

BBMD Configurati	on									
Configure BBMD.										
Add Davies										
Add Device										
Entries may only be added to the BBMD configuration when BACnet IP or BACnet Ethernet protocols are enabled										
IP Address UDP Port Subnet Mask Delete										
192,168,50,100	47808	255.255.255.255								
P	M	11								
Entries may only be add	ed to the BBMD NAT confi	uration when BACnet NAT	is enabled							
charles may only be adde	to to the bond har coning		is chabled							
IP Address UDP Ports	ubnet Mask Delete									
		1								
Submit										
	BBMD Configuration Configure BBMD. Add Device Entries may only be added 192.168.50.100 Entries may only be added 19 Address UDP Port 5 Submt	BBMD Configuration Configure BBMD. Add Device Entries may only be added to the BBMD configurat 192.168 50.100 477008 Entries may only be added to the BBMD NAT config 19 Address UDP Port Subnet Mask Delete Submit	BBMD Configuration Configure BBMD. Add Device Entries may only be added to the BBMD configuration when BACnet IP or BA IP Address UDP Port Subnet Mask I92.168 50 100 F47808 55 255 255 255 Entries may only be added to the BBMD NAT configuration when BACnet NAT IP Address UDP Port Subnet Mask Delete Submt	BBMD Configuration Configure BBMD. Add Davice Entries may only be added to the BBMD configuration when BACnet IP or BACnet Ethernet pro IP Address UDP Port Subnet Mask Delete Fntries may only be added to the BBMD NAT configuration when BACnet NAT is enabled IP Address UDP Port Subnet Mask Delete Submt	BBMD Configuration Configure BBMD. Add Davice Entries may only be added to the BBMD configuration when BACnet IP or BACnet Ethernet protocols are enabled IP Address UDP Port Subnet Mask Delete Image: Configuration when BACnet IP or BACnet Ethernet protocols are enabled IP2.168 50 100 Ip7808 Ip255 255 255 255 255 Image: Configuration when BACnet NAT is enabled Entries may only be added to the BBMD NAT configuration when BACnet NAT is enabled Ip Address UDP Port Subnet Mask Delete Image: Configuration when BACnet NAT is enabled					



TIME SYNC SETTINGS

The Time Sync Settings area provides the ability to configure BACnet network time synchronizations.

Aspect Control Panel Control Panel	Time Sync Configuration Configure the BACnet Network configuration.
Licensing	Time Sync Interval 1 Hour 💌
Modem Configuration Modem Configuration Communication Setup Orot Configuration Dup BaCnet Ba	Time Sync Recipients (Up to four networks)
	Submit

Figure 2-21 Time Synchronization Settings

SIMPLE MOBILE WEB CONFIGURATION

The Simple Mobile Web Configuration area provides users with the ability to generate web pages that can be viewed by handheld devices such as mobile communication devices(i.e. Mobile phone, PDA) that are unable to take on a full JVM implementation to view rich-graphic data displayed created and deployed to the target through Aspect Studio. The implementation requires the use of Database Raw Write blocks used within your application to populate database tables with point information.

To initially configure Aspect® Nexus 2 to use this feature, you must first enter the hostname (IP address or resolvable name of the Aspect® Nexus 2), as well as the username and password assigned in phpMyAdmin that contains permissions to create and write data to tables.

SAspect Control Panel	Simple M	Simple Mobile Web Configuration										
Instance 1 Instance 2 Detabase Management	Configure database connection for mobile device web access.											
Database Management Licensing Modem Configuration	Host	10.10.4.7										
Communication Setup Simple Mebile Web Configuration	Username	[matrixac1										
Database Configuration	Password											
Groups		Submit										
⊕ System Logs												

Figure 2-22 Simple Mobile Web Configuration

SYSTEM ADMINISTRATION

The System Administration area contains system settings for the Aspect® Nexus 2. These fields include the User Manager, System Services, System Status, System Updates, Ethernet Settings, Time Settings Web Server Configuration, Process Status, Image Proxy Configuration, and CalDAV Server Configuration.

USER MANAGER

The User Manager area provides fields to setup, add and remove administrative users from the Aspect® Nexus 2. Administrative users are granted full access to the Aspect Control Panel while users/groups created within an instance are only allowed access to deployed projects.

Aspect Control Panel Ad G G Instance 1 G Application	dministrative l se the following	Jsers form to manage	e Administrator Us	er Names and Passwords.	
Viers and Groups Viers and Groups Viers and Groups Viers and Groups Viers Viers	sername la	Password	Delete Save		

Figure 2-23 Administrative User Form

SYSTEM SERVICES

The System Services area provides administrators with the ability to control key services relative to the target. Through this area, users can restart specific services of the **Aspect® Nexus 2**. Simply select an option from the drop-down and click Submit. A message will indicate that the service has been stopped/started/restarted successfully.

SAspect Control Panel	System Services
🗄 😋 Instance 1	
Application	Start, stop, and restart services.
🖲 🦲 Users and Groups	
🗄 💼 Maverick	Service Select a Service
🖻 😋 Mobile	
	Submit
🗄 🚞 Calendar Configuration	
O Instance Services	
- Project Source	
🗄 🧰 Instance 2	
🔅 🚞 Database Management	
🗉 🚞 Licensing	
🔅 🧰 Modem Configuration	
🗉 🗀 Communication Setup	
🔅 🧰 Simple Mobile Web Configuration	
🖻 😋 System Administration	
🔒 User Manager	
😳 System Services	
O System Status	
Process Status	
- 🖧 System Updates	
🛕 OS Auto-Update	
- Backup/Restore	
- 🚠 Ethernet Settings	
Time Settings	
- Web Server Configuration	
Image Proxy Configuration	

Figure 2-24 System Services

SYSTEM STATUS

The System Status page provides details on the current health of the system including Uptime, memory (RAM) utilization, disk space and all information pertaining to revision levels.



Figure 2-25 System Status Page

PROCESS STATUS

This shows the result of a top command which produces an updating list of current processes running.

😼 Aspect Control Panel	top -	15:46:	11 u	m 3	davs	2:4	5. 0	115	ers.	load	average	: 0.03. 0.02.
🖻 😋 Instance 1	Tasks	: 150 t	otal	, 1	runni	ing,	149	le	eping	, 0 5	topped.	0 zombie
Application	Cpu (s	Cpu(s): 0.1%us, 0.3%sv, 0.0%ni, 99.4%id, 0.1%wa, 0.0%hi, 0.0%si, 0.0%st										
🗉 🛅 Users and Groups	Mem:	lem: 1912684k total, 1089852k used, 822832k free, 146460k buffers										
🗈 🚞 Maverick	Swap:	Swap: 2097144k total, 0k used, 2097144k free, 282172k cached										
🖻 😋 Mobile												
	PID	USER	PR	NI	VIRT	RES	SHR	s	%CPU	%MEM	TIME+	COMMAND
🗄 🚞 Calendar Configuration	10533	anache	20	0	15028	1120	820	R	3.8	0.1	0.00 04	ton
- O Instance Services	2241	root	20	0	1469m	2116	700	c	1.0	0.2	74.12.41	mix-com-cn/
Persistence Manager	1	root	20	0	10252	1520	1220	0	1.5	0.2	0.02.04	init.
Project Source	1	TOOL	20	0	19352	1528	1220	5	0.0	0.1	0:02.04	Init.
Project Removal	2	root	20	0	0	0	0	5	0.0	0.0	0:00.01	kthreadd
Aspect Control Engine Log	3	root	RT	0	0	0	0	S	0.0	0.0	0:00.31	migration/0
- Clicense Item Status	4	root	20	0	0	0	0	S	0.0	0.0	0:00.99	ksoftirqd/0
Project Thread Status	5	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	migration/0
Instance 2	6	root	RT	0	0	0	0	S	0.0	0.0	0:00.36	watchdog/0
Database Management	7	root	RT	0	0	0	0	S	0.0	0.0	0:00.31	migration/1
Modem Configuration	8	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	migration/1
Communication Setun	9	root	20	0	0	0	0	S	0.0	0.0	0:01.97	ksoftirgd/1
Simple Mobile Web Configuration	10	root	RT	0	0	0	0	s	0.0	0.0	0:00.39	watchdog/1
System Administration	11	root	RT	0	0	0	0	S	0.0	0.0	0:00.34	migration/2
Liser Manager	12	root	RT	0	0	0	0	S	0.0	0.0	0.00.00	migration/2
System Services	13	root	20	0	0	0	0	S	0.0	0.0	0.01.80	ksoftirad/2
System Status	14	root	PT	0	0	0	0	0	0.0	0.0	0:00.34	watchdog/2
Process Status	17	TOOL	DT	0	0	0	0	0	0.0	0.0	0.00.34	watchuog/2
- 🖧 System Updates	15	1000	DT	0	0	0	0	0	0.0	0.0	0.00.32	migration/3
- A OS Auto-Update	10	1000	RI	0	0	0	0	5	0.0	0.0	0:00.00	migration/3
	1/	root	20	0	0	0	0	S	0.0	0.0	0:01.75	ksottirdd/3
Ethernet Settings	18	root	RT	0	0	0	0	S	0.0	0.0	0:00.36	watchdog/3
	19	root	20	0	0	0	0	S	0.0	0.0	0:22.84	events/0
- 🖓 Time Settings	20	root	20	0	0	0	0	S	0.0	0.0	0:17.10	events/1
	21	root	20	0	0	0	0	S	0.0	0.0	0:21.77	events/2
Image Proxy Configuration	22	root	20	0	0	0	0	S	0.0	0.0	0:25.21	events/3
🖻 🛅 System Logs	23	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cgroup
	24	root	20	0	0	0	0	s	0.0	0.0	0:00.00	khelper
	25	root	20	0	0	0	0	S	0.0	0.0	0:00.00	netns
	20				-			-	0.0	0.0	0.00.00	1

Figure 2-26 Process Status

SYSTEM UPDATES

The System Updates area is used to perform firmware upgrades to the **Aspect® Nexus 2**. These firmware updates can be obtained via download from support.cylon.com.



Figure 2-27 System Updates

OS AUTO UPDATE

Permits whether to allow or disallow automatic YUM updated to the Operating System. It is recommended to leave this setting at "Enabled".



Figure 2-28 OS Auto Update

ETHERNET SETTINGS

The Ethernet Settings area permits for Ethernet address configuration of the Aspect® Nexus 2. The Aspect® Nexus 2 can support static IP addresses or DHCP addressing from a valid DHCP server. Simply select the appropriate address setting for your application.

• To configure the device to use DHCP addressing, select the "Obtain an IP Address Automatically" radio button. In most DHCP environments, a resolvable DNS name or reserved IP address is assigned to the **Aspect® Nexus 2** by the local network administrator prior to configuring the device for this option.

• To configure the device to use a static IP address, select the "Use the following IP Address" radio button, then enter your IP address, subnet mask, gateway, and DNS information into the boxes provided below.

😼 Aspect Control Panel	Ethernet Settings
🖨 😋 Instance 1	
Application	Manage ethernet settings.
🗉 🛅 Users and Groups	
Maverick	C Obtain an IP Address Automatically
🖻 😋 Mobile	© Use the following IP Address:
vStat	TD Address 40 40 7
🕀 🛅 Calendar Configuration	
-O Instance Services	Subnet Mask 255 . 255 . 240 . 0
Persistence Manager	Gateway 10 . 10 . 1 . 1
Project Source	
Project Removal	
Aspect Control Engine Log	Preferred DNS Server 10 . 10 . 1 . 5
Drojost Throad Status	Alternate DNS Server 10 10 1 (Ontional)
Project Inlead Status	
Database Management	Submit
E C Licensing	
🕫 🦳 Modem Configuration	
Communication Setup	
🗉 🦳 Simple Mobile Web Configuration	
🖻 😋 System Administration	
🐴 System Updates	
🛕 OS Auto-Update	
Backup/Restore	
Ethernet Settings	
Network Diagnostics	
Web Server Configuration	
Sustem Loop	
E J System Logs	

Figure 2-29 Ethernet Settings

NETWORK DIAGNOSTICS

The Network Diagnostics area contains useful troubleshooting methods for IP network connectivity problems without the need for additional tools.





TIME SETTINGS

The Time Settings area allows users to configure the **Aspect® Nexus 2** Time and Date parameters. In this section, users can set the following items using the appropriate drop-downs and editors:

- System Time specified in military time
- System Date specified in MM/DD/YYYY
- TimeZone/Region specified in one of many configurable options
- Time Server Synchronization Specifies an NTP time server on the Internet with which to sync the system time to. Refer to pool.ntp.org for information relative to other available NTP servers available.

Sect Control Panel	Time/Date Settings				
Application Users and Groups Users and Groups Mobile Source Project Source Project Control Engine Log License Item Status	Use the following forms to) configure time an	d date settings		
	Set System Time	15 • 49 •	Submit		
	Set System Date	04/19/2013	Submit		
	Set TimeZone/Region	America/New_York	Submit		
🖶 🎦 Instance 2 🖶 🔁 Database Management 🖶 🔁 Licensing	Time Server Synchronization	nist1-nj.ustiming.org	Submit		
Communication Communication Setup					
Simple Mobile Web Configuration System Administration Oser Manager Osystem Services System Status					

Figure 2-31 Time/Date Settings

WEB SERVER CONFIGURATION

The Web Server Configuration area is used to set a label for the login screen and change port settings for the following:

- Aspect Control Panel defaults to port 80(HTTP)
- Aspect Control Engine defaults to port 7226
- Simple Mobile Web defaults to port 8080

Aspect Control Panel Aspect Control Panel	Web Server Configuration Configure web server settings.			
	Device Label	Nexus 1.08.03	Submit	
	Port	80	Submit	
	AspectFT Control Engine Port	7226	Submit	
Project Source	Simple Mobile Web Port	8080	Submit	
Aspect Control Engine Log License Item Status Project Thread Status				
🗈 🗀 Instance 2 🗉 🗀 Database Management				
Generation				
Gommunication Setup Simple Mobile Web Configuration System Administration System Administration				
System Services				

Figure 2-32 Web Server Configuration Page

IMAGE PROXY CONFIGURATION

The Image Proxy Configuration page permits users to enable to disable image proxy, allowing Aspect to access external sites retrieve graphics.

Repect Control Panel	Image Proxy Access
instance 1	
Application	Use the form to enable or disable image proxy access.
🗉 🦳 Users and Groups	
Maverick	C Proxy Enabled
🖻 😋 Mobile	© Proxy Disabled
A vStat	
E Calendar Configuration	Save
- Instance Services	
Project Source	
Aspect Control Engine Log	
- Project Thread Status	
The Instance 2	
H Database Management	
H C Licensing	
The Modem Configuration	
The Communication Setup	
F G Simple Mobile Web Configuration	
E G System Administration	
A User Manager	
- System Status	
- Process Status	
- A OS Auto-Undate	
Backup/Restore	
Time Settings	
Web Server Configuration	
Image Proxy Configuration	
System Logs	
m — electric relle	

Figure 2-33 Image Proxy Configuration

CALDAV SERVER ADMINISTRATION

CalDAV is installed on the Aspect family using two open source applications- Baïkal Server and AgenDAV. From here users are able to launch Baïkal Server administration as well as the AgenDAV HTML5 CalDAV Client. Customization of the Client Interface is also configured through this menu option. For installation, requirements, and additional details regarding the CalDAV setup, please refer to the Aspect Studio Online Help file.

Sapect Control Panel	CalDAV Server Management
🖻 🚞 Instance 1	
🗈 🧰 Instance 2	Launch Baikal Server Administration
🗉 🗀 Database Management	
🗄 🚞 Licensing	
🗈 🚞 Modem Configuration	CalDAV HTML Client
🗉 🗀 Communication Setup	
🗈 🗀 Simple Mobile Web Configuration	Launch AgenDAV HTML5 CalDAV Client
🖻 😋 System Administration	
- 🔒 User Manager	Customing UTAU Client Intenferer
- O System Services	
— System Status	
- Process Status	AgenDAV Page Title
-🖧 System Updates	American Auto-Matrix
- 🕂 OS Auto-Update	Set AgenDAV Page Title
– 🔀 Backup/Restore	
Ethernet Settings	
- 🔍 Network Diagnostics	AgenDAV Page Footer
- 🖓 Time Settings	American Auto-Matrix
- 🔤 Image Proxy Configuration	Set AgenDAV Page Footer
CalDAV Server Configuration	
🗄 📋 System Logs	Server Name When Displaying Calendar URL
	nexus.ts.aam
	Set AgenDAV Hestingme
	Set Agendary Hostinanie
	AgonDAV Default Timozono
	JAmerica/New_York
	Set Time Zone

Figure 2-34 CalDAV Server Administration

SYSTEM LOGS

The System Logs area provides users with the ability to view and download messages generated by the **Aspect® Nexus 2** and the Aspect control engine. The System Logs area provides the following logs:

- Diagnostic Buffer provides kernel operating system output for the device. The information shown here is for diagnostic purposes and may be referenced during troubleshooting session with Cylon Controls.
- Remote Logging The Remote Logging page is used to allow or disallow centralized syslog messag- ing. All Aspect targets support the ability to send their log information to a centralized Aspect target or ITsupported syslog server.
- System Log contains information processed by the sub-level operating system outside of Aspect
- Update Log- shows any recent YUM updates in the system.

DIAGNOSTIC BUFFER

The Diagnostic Buffer provides diagnostic information regarding the Aspect® Nexus 2 hardware and OS details.



Figure 2-35 Diagnostic Buffer

REMOTE LOGGING

The Remote Logging page is used to allow or disallow centralized syslog messaging. All Aspect targets support the ability to send their log information to a centralized Aspect target or IT-supported syslog server.





SYSTEM LOG

The System Log area provides complete syslog information for the hardware. Information provided within this log includes boot up details and lower level information regarding runtime of the system.

UPDATE LOG

The update log shows all recent updates to the operating system.

😼 Aspect Control Panel	Update Log	-
🖻 😋 Instance 1		
	View Package Update Logs	
🗈 🛅 Users and Groups		
🗈 🚞 Maverick	lyum.log Change	
E G Mobile		
VStat	Download the update log	
Calendar Conliguration		
Persistence Manager	Apr 17 05:17:56 Updated: krb5-libs-1.10.3-10.el6_4.2.x86_64	
Project Source	Apr 06.04/50/35 Undated: coreutils-8.4-19.el6.4.1 x86.64	
Project Removal		
Aspect Control Engine Log	Apr 06 04:50:31 Updated: coreutiis-libs-8.4-19.elb_4.1.X86_64	
	Mar 29 05:06:12 Updated: 32:bind-utils-9.8.2-0.17.rc1.el6_4.4.x86_64	
	Mar 29 05:06:12 Ubdated: 32:bind-libs-9.8.2-0.17.rc1.el6 4.4.x86 64	
🗈 🛅 Instance 2		
Database Management	Mar 28 12:03:55 Opdated: tzdata-2013b-1.elo.noarch	
H Continuention	Mar 28 12:03:44 Updated: tzdata-java-2013b-1.el6.noarch	
Communication Setup	Mar 28 12:03:40 Updated: pixman-0.26.2-5.el6_4.x86_64	
🗉 🦲 Simple Mobile Web Configuration	Mar 28 12:03:40 Updated: 4:perl-Time-HiRes-1.9721-130.el6_4.x86_64	
System Administration	Mar 28 12:03:40 Updated: 1:perl-Digest-SHA-5.47-130.el6_4.x86_64	
Diagnostic Buffer	Mar 28 12:03:40 Updated: perl-Archive-Tar-1.58-130.el6_4.x86_64	
Remote Logging	Mar 28 12:03:39 Updated: 1:perl-Package-Constants-0.02-130.el6_4.x86_64	
Update Log	Mar 28 12:03:39 Updated: 1:perl-IO-Zlib-1.09-130.el6_4.x86_64	
	Mar 28 12:03:39 Updated: perl-Compress-Zlib-2.020-130.el6_4.x86_64	
	Mar 30 13:03:30 Undated: part 10 Compress 7/b 3:030 130 als 4:405 54	

Figure 2-37 Update Log



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