

What's New in CA Spectrum 9.4.1

November 2014



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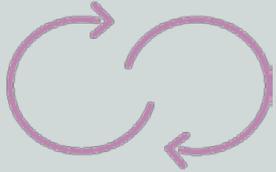
CA Spectrum 9.4.1

- Update and Enhance CA Spectrum and CA Unified Infrastructure Management* Integration to Support VMWare
- Key Content:
 - CA Spectrum to CA UIM Integration for VMWare
 - CA Spectrum Mobile Application
 - High Impacting Outages View
 - Device Certification Updates

*CA UIM is formerly known as CA Nimsoft

CA Spectrum and CA UIM Integration for VMWare Support

CA UIM Integration



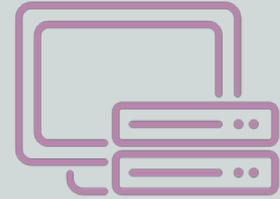
Provide access to storage, and databases will help users gain true end-to-end monitoring and management capabilities



Plan is to leverage CA UIM monitor server and virtualization management capabilities in CA Spectrum



Phased approach starting with server and OS management from CA Spectrum 9.4



CA Spectrum 9.4.1 release includes support for VMWARE virtualization

← CA Unified Infrastructure Management complementing technology →

Why Integrate CA Spectrum with CA UIM?

The integration provides

Holistic View

of the server

&

Virtualization Availability

within the environment

The integration drives

Root Cause & Impact Analysis

across networks, systems and virtualization

end-to-end

The integration merges

Network Management & L2

capabilities from CA Spectrum with systems management from CA UIM

best of both worlds

The integration allows

Superior Correlation

between

CA Spectrum and CA UIM to drive

Business Value

for end customers

Capabilities Available with CA Spectrum 9.4.1

- **Discover** CA UIM Managed VMWare Elements
 - Synchronize the inventory periodically
 - Get VC, ESX and VM Inventory from CA UIM
 - Model servers/VMs in Spectrum
 - Get alarms and drive RCA (like we did with VAIM)
- **Show** UIM Managed elements in the Spectrum hierarchy and topology (with the ESX and VM association)
- **Display** key metrics in Spectrum OneClick sub-views
- **Assert** alarms from CA UIM onto the appropriate model in CA Spectrum OneClick hierarchy
- **Bring** the CA UIM alarms/devices under the purview of Root Cause and Impact Analysis
- **Launch** in context, into CA UIM Console, for advanced metrics, trends

VMWare Hierarchy under CA Unified Infrastructure Management Manager

Name			
VPN Manager			
bezna01-w2k8vm1 (0x100000)	9	3	26
Chassis Manager (6)		1	
LostFound (8)			
Nimsoft Manager (2)	6		25
Servers (4)			
Virtualization (1)	6		25
VMware (4)	6		25
10.131.0.203 (56)			14
10.134.15.176 (1)			
nvmqa-vc.ca.com (1)			
ITC NVM (1)			
ITC Cluster (5)			
chumu01-esx1.ca.com			
chumu01-esx2.ca.com			
chumu01-esx3.ca.com			
chumu01-esx4.ca.com			
Resources (38)			
brzlm1p.ca.com			
chasr05-w2k3-v2.ca.com			
chasr05-w2k3-v3.ca.com			
chasr05-w2k3-v4			
dinme03-vm11			
gupma05-npc.ca.com			
gupma05-nv.ca.com			
hydlin1			
hydwin1			
i18n-j913			
itcsimrepo.ca.com			
karja06-w2k3-qtp			
karja06-w2k8vm2			

Alarms | Topology | List | Events | Information

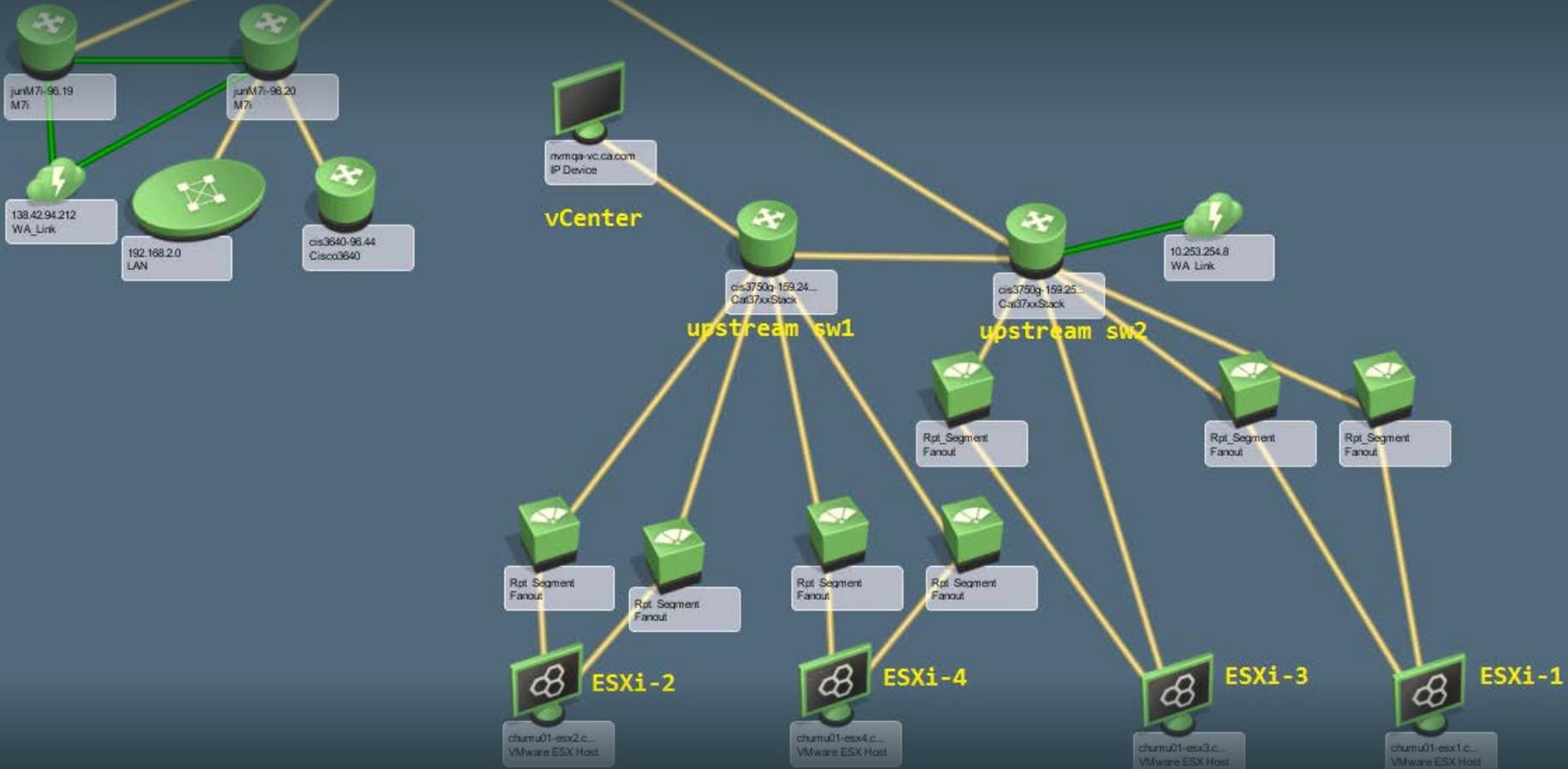


nvmqa-vc.ca.com [set](#)
IP Device

nvmqa-vc.ca.com
IP Device

- ⊕ General Information
- ⊕ CA Spectrum Modeling Information
- ⊕ Asset Information
- ⊖ Reconfiguration ↻
- Discover Connections
- ⊕ Multicast Information
- ⊕ Thresholds And Watches
- ⊕ Global Collections Memberships
- ⊖ QoS CPU/Disk/Memory Metric Information ↻
 - ⊕ QoS CPU Usage Metrics
 - ⊕ QoS CPU Multi Usage Metrics
 - ⊕ QoS Memory Metrics
 - ⊖ QoS Disk Metrics

L2 Connectivity for Virtual Environment



QoS Metrics for ESX

Navigation

Explorer | Locater | Users

Name	21	12	26
My Spectrum	21	12	26
Favorites			
Global Collections			
Global Collection Hierarchy			
Active Directory and Exchange Server Manager			
Cluster Manager			
Configuration Manager (3)	7	6	
eHealth Manager			
IP Routing Manager			
MPLS Transport Manager			
Policy Manager			
Service Performance Manager (2)			
VPLS Manager			
VPN Manager			
bezna01-w2k8vm1 (0x100000)	14	3	26
Chassis Manager (6)	1	1	
LostFound (6)			
Nimsoft Manager (2)	10		25
Servers (4)			
Virtualization (1)	10		25
VMware (4)	10		25
10.131.0.203 (56)			14
10.134.15.176 (1)	1		
nvmqa-vc.ca.com (1)			
ITC NVM (1)			
ITC Cluster (5)			
chumu01-esx1.ca.com			
chumu01-esx2.ca.com			
chumu01-esx3.ca.com			
chumu01-esx4.ca.com			
Resources (38)			
brzlm1p.ca.com			
chasr05-w2k3-v2.ca.com			
chasr05-w2k3-v3.ca.com			
chasr05-w2k3-v4			
dinme03-vm11			
gupma05-npc.ca.com			
gupma05-nv.ca.com			
hydlin1			

Contents: chumu01-esx1.ca.com of type VMware ESX Host

Alarms | Topology | List | Events | Information



chumu01-esx1.ca.com
VMware ESX Host

- General Information
- CA Spectrum Modeling Information
- Asset Information
- Thresholds And Watches
- Global Collections Memberships
- QoS CPU/Disk/Memory Metric Information
 - QoS CPU Usage Metrics
 - QoS CPU Multi Usage Metrics
 - QoS Memory Metrics
 - QoS Disk Metrics
- QoS VMware Metric Information

Is In Maintenance Mode: False
VM Count: 23
VM Count Active: 17
Memory Size (MB): 24570.18
Host Power State: Powered On
Host Overall CPU Usage (MHz): 1825.00

Alarms

Navigation

Explorer | Locator | Users

Name	24	72	147
My Spectrum			
Favorites			
Global Collections			
Global Collection Hierarchy			
Active Directory and Exchange Serve...			
Cluster Manager			
Configuration Manager (3)	9	7	
eHealth Manager			
IP Routing Manager			
MPLS Transport Manager			
Policy Manager			
Service Performance Manager (2)			
VPLS Manager			
VPN Manager			
bezna01-w2k8vm1 (0x100000)	1	9	12
Chassis Manager (6)	1	2	4
LostFound (42)	1	9	12
Nimsoft Manager (1)		7	
Servers (2)		7	
Other (8)			
Windows (6)		7	
mcast1.ca.com		7	
mcast2.ca.com			
mcast4.ca.com			
mcast6.ca.com			
mcast7.ca.com			
mcastsrc5.ca.com			
Service Manager (3)			
TopOrg			
Universe (4)			
World			
Correlation Manager			
Enterprise VPN Manager			
Multicast Manager			
QoS Manager			
Remote Operations Manager			
Secure Domain Manager			
Telecoms Manager			

Contents: mcast1.ca.com of type IP Device

Alarms | Topology | List | Events | Information

Filter icons: Info, Close, Check, Uncheck, Refresh, Print, Mail, Alarm, Show

Filtered By: Severity

Severity	Date/Time	Name	Network Address	Secure Domain	Type	Alarm Title	Landscape	Occurrences
Major	Sep 23, 2014 2:15:58 PM IST	mcast1.ca.com	138.42.94.70	Directly Managed	IP Device	Average (1 samples) Idle cpu is now 99.98%, which is above the error threshold (3%)	bezna01-w2k8vm1 (0x1000...	8
Major	Sep 23, 2014 2:16:08 PM IST	mcast1.ca.com	138.42.94.70	Directly Managed	IP Device	Average (1 samples) memory usage is now 99%, which is above the error threshold (3%)	bezna01-w2k8vm1 (0x1000...	7
Major	Sep 23, 2014 2:16:10 PM IST	mcast1.ca.com	138.42.94.70	Directly Managed	IP Device	Average (1 samples) swap memory usage is now 100%, which is above the error threshold (3%)	bezna01-w2k8vm1 (0x1000...	7
Major	Sep 23, 2014 2:16:08 PM IST	mcast1.ca.com	138.42.94.70	Directly Managed	IP Device	Average (1 samples) memory usage is now 99%, which is above the error threshold (3%)	bezna01-w2k8vm1 (0x1000...	7
Major	Sep 23, 2014 2:16:09 PM IST	mcast1.ca.com	138.42.94.70	Directly Managed	IP Device	Average (1 samples) physical memory usage is now 73%, which is above the error threshold (3%)	bezna01-w2k8vm1 (0x1000...	7
Major	Sep 23, 2014 2:16:19 PM IST	mcast1.ca.com	138.42.94.70	Directly Managed	IP Device	Average (value_number samples) total cpu is now valueunit, which is above the error threshold (valu...	bezna01-w2k8vm1 (0x1000...	1
Major	Sep 23, 2014 2:16:19 PM IST	mcast1.ca.com	138.42.94.70	Directly Managed	IP Device	Network connection error; \pylsa01-w2k8\Albedo Access is denied.	bezna01-w2k8vm1 (0x1000...	1

Component Detail: mcast1.ca.com of type IP Device

Alarm Details | Information | Impact | Host Configuration | Root Cause | Interfaces | Performance | Alarm History | Neighbors | Events | mcast1.ca.com of type IP Device

Average (1 samples) Idle cpu is now 99.98%, which is above the error threshold (3%)

Sep 23, 2014 2:15:58 PM IST
Tue 23 Sep, 2014 - 04:45:58 - NIMSOFIT SNMP GATEWAY

Major CPU Alarm generated with the following details:

Average (1 samples) Idle cpu is now 99.98%, which is above the error threshold (3%)
Source: mcast1
IP: 138.42.94.70
Level: Major
Suppression Key: cpu/custom/TestCPUProfile/Idle
Subsystem: NMS_Alarm_Host_CPU



Threshold Violation Alarm on a VM

Resources (144)

Resource	4	1	7
2 (4)	4		
CM_Build_Machines (21)			
IM_Development (7)			6
ITC_QA_Pool (26)		1	
imlinm1p.ca.com		1	
imlinm1s.ca.com			
inwinm1p			
inwinm1s			
inwinoc1.ca.com			
itc-chasr05-vm1.ca.com			
itc-sahra02-vm2.ca.com			
itclinboxi2.ca.com			
itclindev-vm2.ca.com			
itclinoc3.ca.com			
itclinp1p.ca.com			
itclinp1s.ca.com			
itclins1p.ca.com			
itclins1s.ca.com			
itcwinboxi1.ca.com			
itcwinboxi2.ca.com			
itcwinehealth.ca.com			
itcwinehealth3.ca.com			
itcwinehealthta.ca.com			
itcwinm1p.ca.com			
itcwinm1s.ca.com			
itcwinoc1.ca.com			
itcwinoc2.ca.com			
itcwins1p.ca.com			
itcwins1s.ca.com			
itcwinsdc2.ca.com			
Longevity2			
NFA			
Spectrum (35)			
Spectrum Release Team (4)			
Support_PM_Pool (12)			

Alarms | Topology | List | Events | Information

Show

Filtered By: Severity

Severity	Date/Time	Name	Network Address	Secure Domain	Type	Alarm Title	Land...
Major	Oct 1, 2014 3:18:18 AM EDT	imlinm1p.ca.com	138.42.249.170	Directly Managed	VMware Virt...	Average (1 samples) disk ...	beznat

Component Detail: imlinm1p.ca.com of type VMware Virtual Machine

Alarm Details | Information | Impact | Host Configuration | Root Cause | Interfaces | Performance | Alarm History | Neighbors | Events | Path View

Average (1 samples) disk free on /t1 is now 0MB, which is below the error threshold (10MB) out of total size 130.5 GB

Oct 1, 2014 3:18:18 AM EDT

Wed 01 Oct, 2014 - 03:18:18 - NIMSOFTE SNMP GATEWAY

Major Disk Alarm generated with the following details:

Average (1 samples) disk free on /t1 is now 0MB, which is below the error threshold (10MB) out of total size 130.5 GB

Source: imlinm1p

IP: 138.42.249.170

Level: Major

Suppression Key: disk//t1

Subsystem: NMS.Alarm.Host.Disk

Probe ID: cdm

Origin: albedohub

Arrival Time (s): 1412147889

NIM-ID: PC35934071-70255

Domain: albedodom

Spectrum Event ID: 0x06330032 [more](#)

imlinm1p.ca.com
VMware Virtual ...

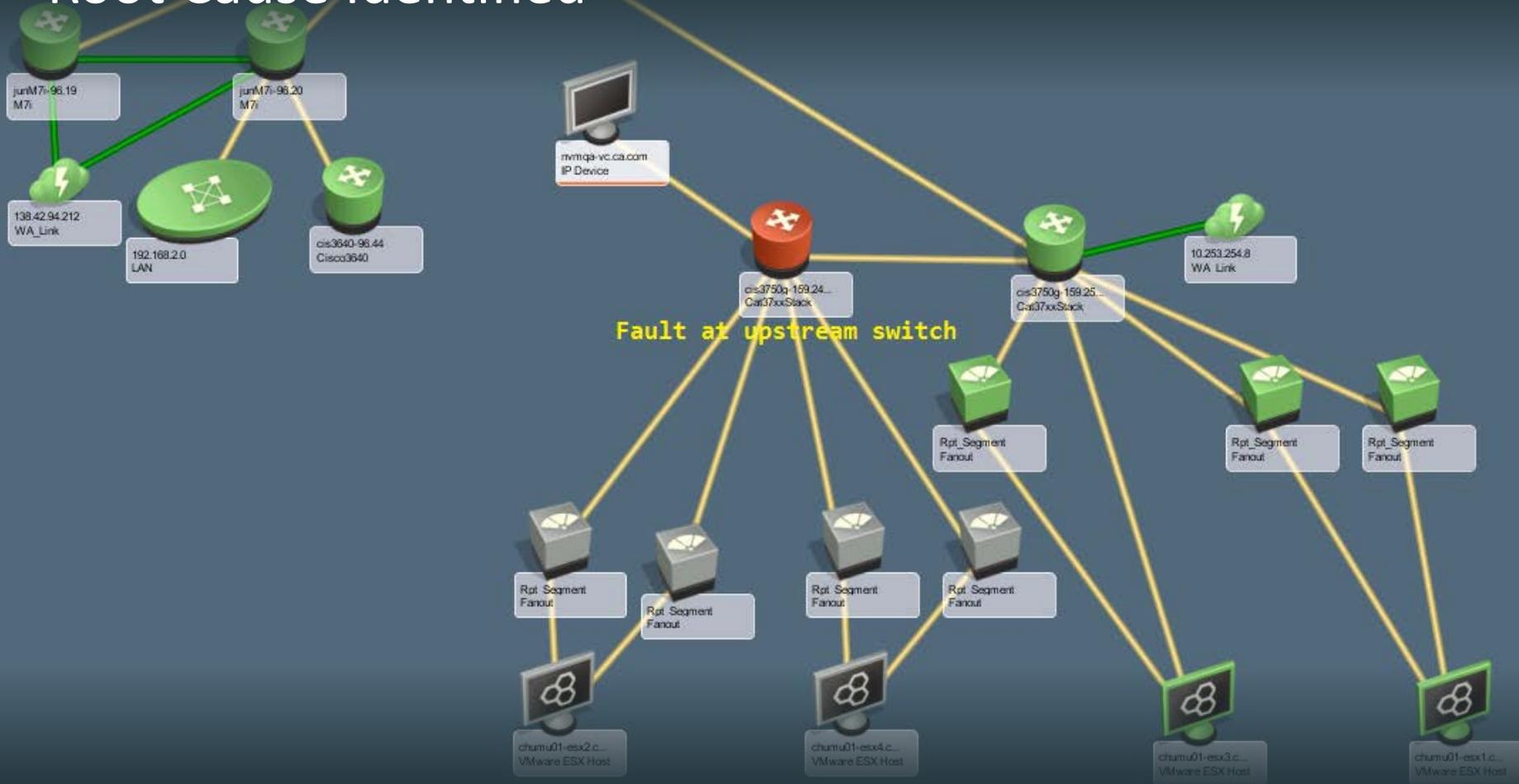
Severity Major

Impact 0

Symptoms A trap from the Nimsoft Integration was received and has caused this alarm.

Probable Cause The Nimsoft Probe running on behalf of a monitored disk resource has detected disk space b

Root Cause Identified



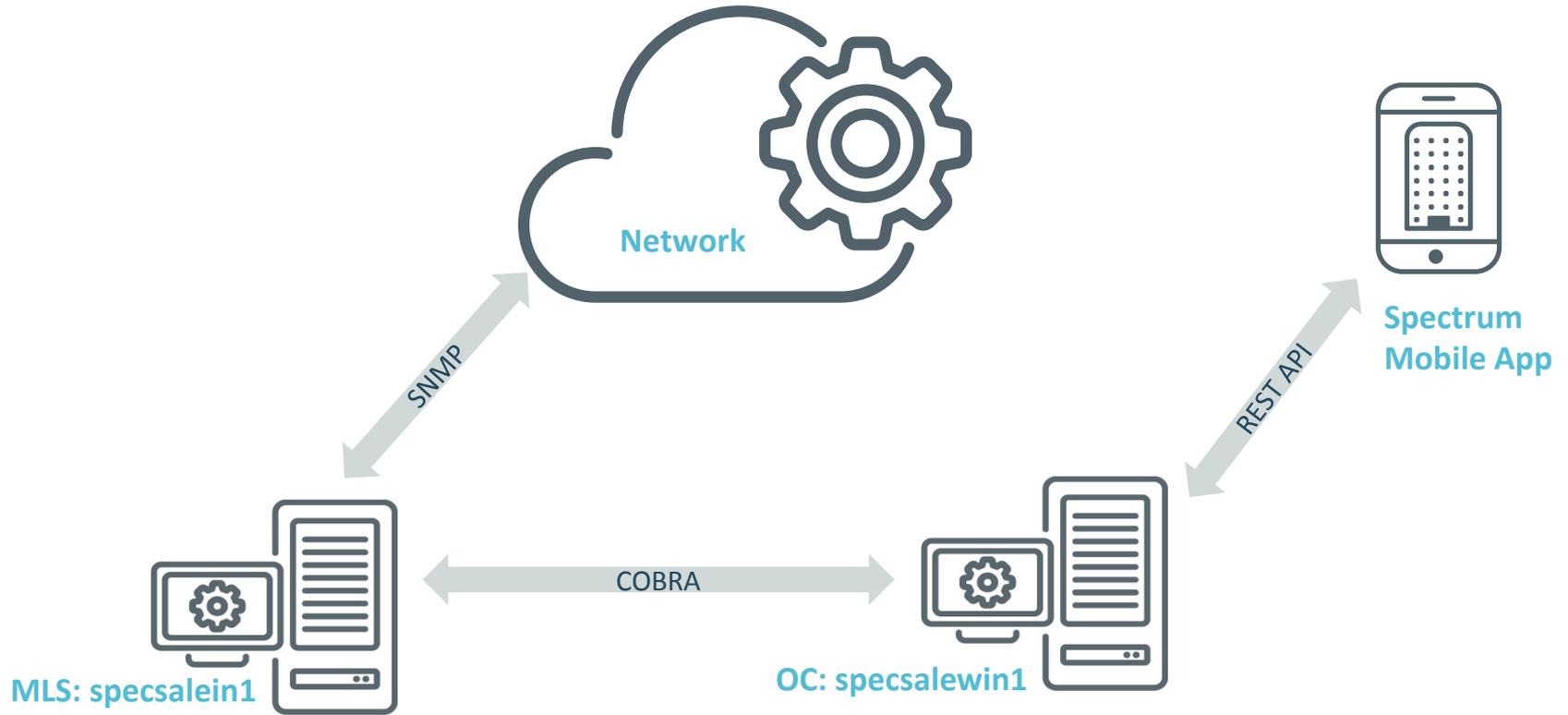
CA Spectrum Mobile Interface

CA Spectrum Mobile

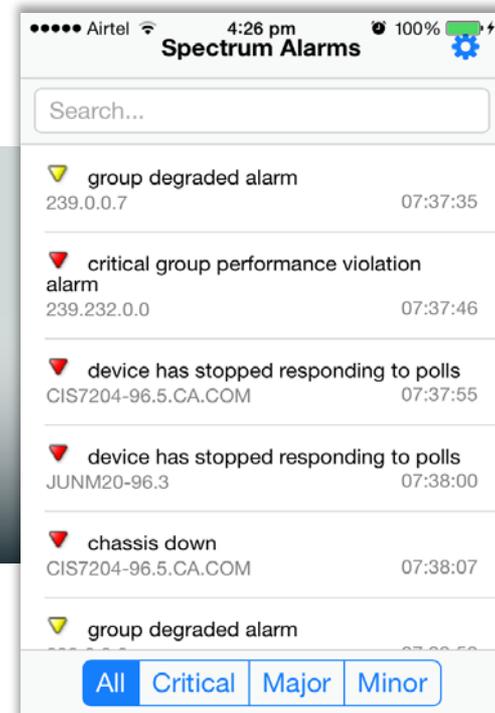
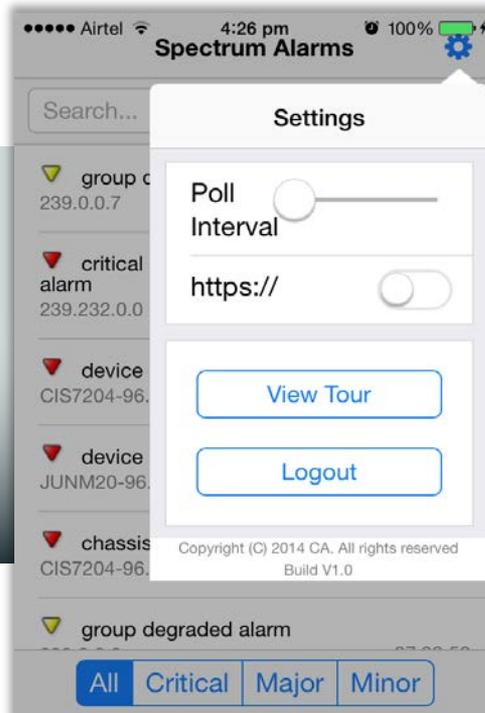
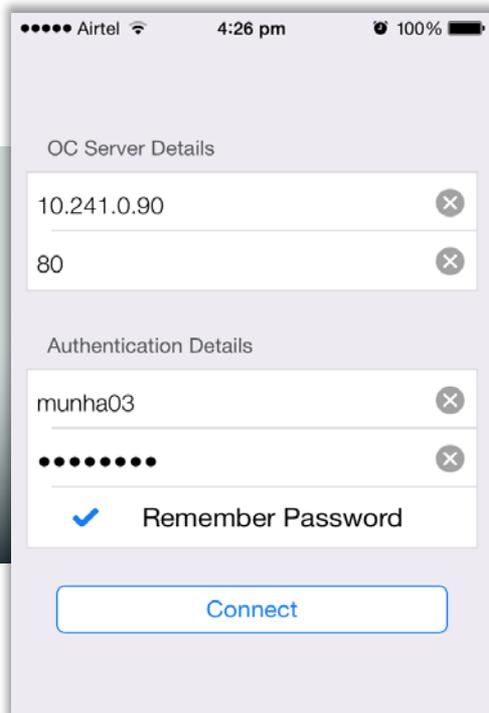
- Spectrum Mobile App is an easy way to view and perform some specific actions on Spectrum Alarms on your mobile device
- Uses sencha framework and supports both Android as well as iOS
- Alarms can be assigned, acknowledge and cleared
- Supported Devices
 - This App supports the following platforms
 - Android (4.4 – Kitkat)
 - iOS (7.1)



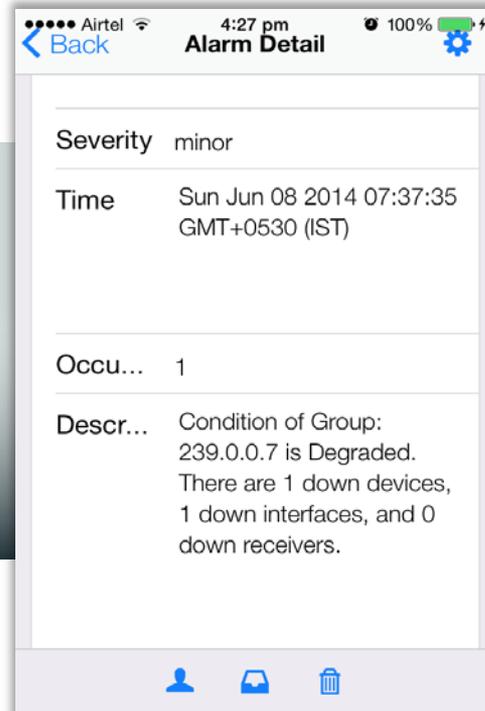
CA Spectrum Mobile App Overview



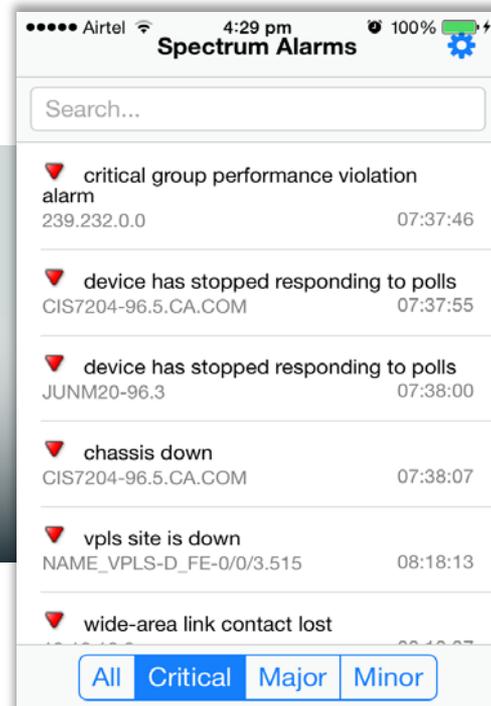
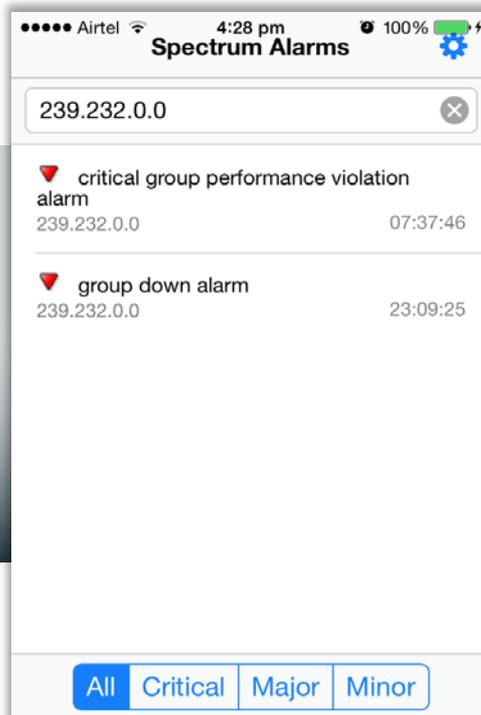
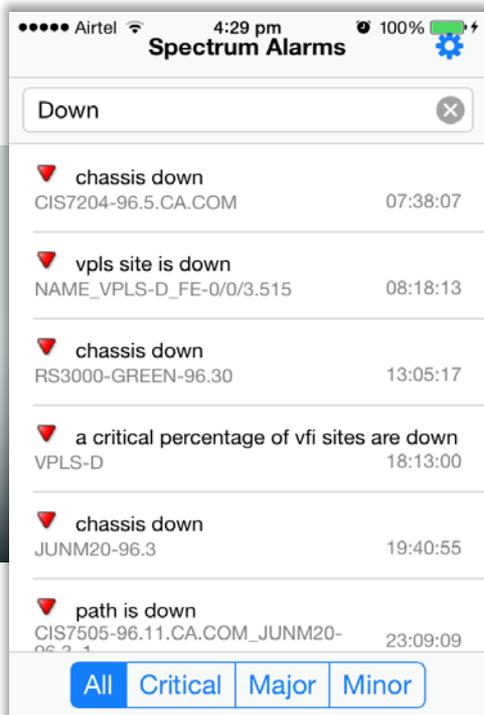
CA Spectrum Views on Mobile



CA Spectrum Views on Mobile



CA Spectrum Views on Mobile



High Impacting Outages

High Impacting Outages View

- Use the existing data to derive more value
- List the outages and their impact to the environment
- View key outage information:
 - Outage start time
 - Outage duration
 - Root cause device
 - Count of impacted devices
- Could customize to associate costs



High Impacting Outages View

Top Impacting Outages

Request processed successfully



Records per page

25

Search:

Outage Start Time	Duration(hh:mm:ss)	Device	Location	Peak Impact Count	Impact Weight
2014-09-27 21:59:26	336:30:32	cat4503-cyan-96.33	"QA Lab, Portsmouth NH"	10	201906
2014-10-11 00:31:44	69:09:08	cisco2621-96.8.8.ca.com	Hardware Lab - Portsmouth, NH	11	45641
2014-10-12 01:25:31	44:12:19	cis2524-96.55.ca.com	"Hardware Lab, Portsmouth, NH"	10	26524
2014-10-10 05:58:14	43:26:52	rs3000-PurpleCE1-96.39	Portsmouth, NH	10	26069
2014-10-07 17:08:08	79:12:14	jun2300-96.17	QA Lab, Portsmouth NH-1	4	19009
2014-10-11 00:33:13	69:03:58	jun2300-96.17	QA Lab, Portsmouth NH-1	4	16576
2014-10-07 17:10:52	79:08:10	cisco2621-96.8.8.ca.com	Hardware Lab - Portsmouth, NH	3	14245
2014-10-07 17:11:04	79:07:58	cis2600-96.15.ca.com	"QA Lab, Portsmouth NH"	3	14244
2014-10-11 00:31:31	21:59:00	cis2600-96.15.ca.com	"QA Lab, Portsmouth NH"	9	11871
2014-10-07 17:10:01	60:48:14	cis2524-96.55.ca.com	"Hardware Lab, Portsmouth, NH"	2	7297
2014-10-10 04:52:03	19:29:15	cis2524-blue-96.28.ca.com	"QA Lab, Portsmouth NH"	6	7016
2014-10-13 21:43:53	12:24:50	cisco2621-96.8.8.ca.com	Hardware Lab - Portsmouth, NH	9	6704
2014-10-13 21:47:17	12:20:32	cis2524-96.55.ca.com	"Hardware Lab, Portsmouth, NH"	7	5184

Device Certifications

CA Spectrum r9.4.1 key certification updates

- Cisco
- Juniper
- Nortel
- Alcatel
- Avaya
- Brocade and more.
- The goal of the product team is to deliver valuable certification updates every release.

Search
Certification Database

Content Strategy
Plan of Action for
Certifications

ca.com/Spectrum