

EM DevXchange 11 & 12th May 2016

CA Spectrum WebClient

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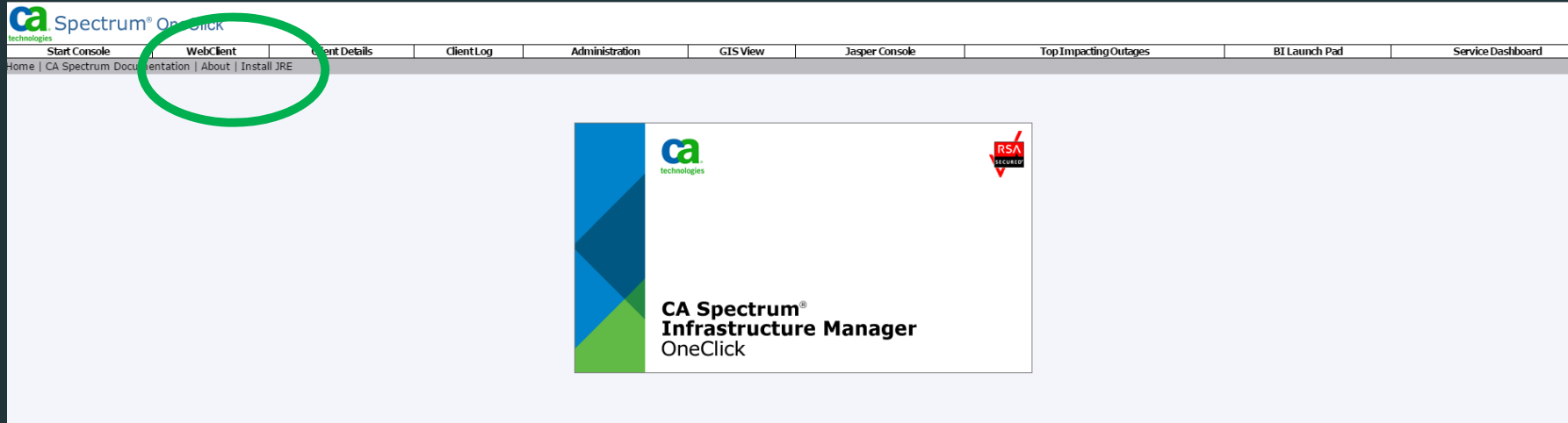
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WebClient Key Features

- View Alarm Details
 - See Global Collections, Alarm Filters and Landscapes
 - Alarm Type, Severity, Neighbor Topology, Probably Cause, Root Cause, and Impacted Devices
- Alarm Management Activities
 - Acknowledge, Clear and Un-Clear alarms
 - Create Service Desk Tickets for alarms
 - Export alarm data to different formats like pdf, xls
- Network Operations
 - Ping and Traceroute
- Simplify UI/UX for Administrators

Launch WebClient from Spectrum OneClick

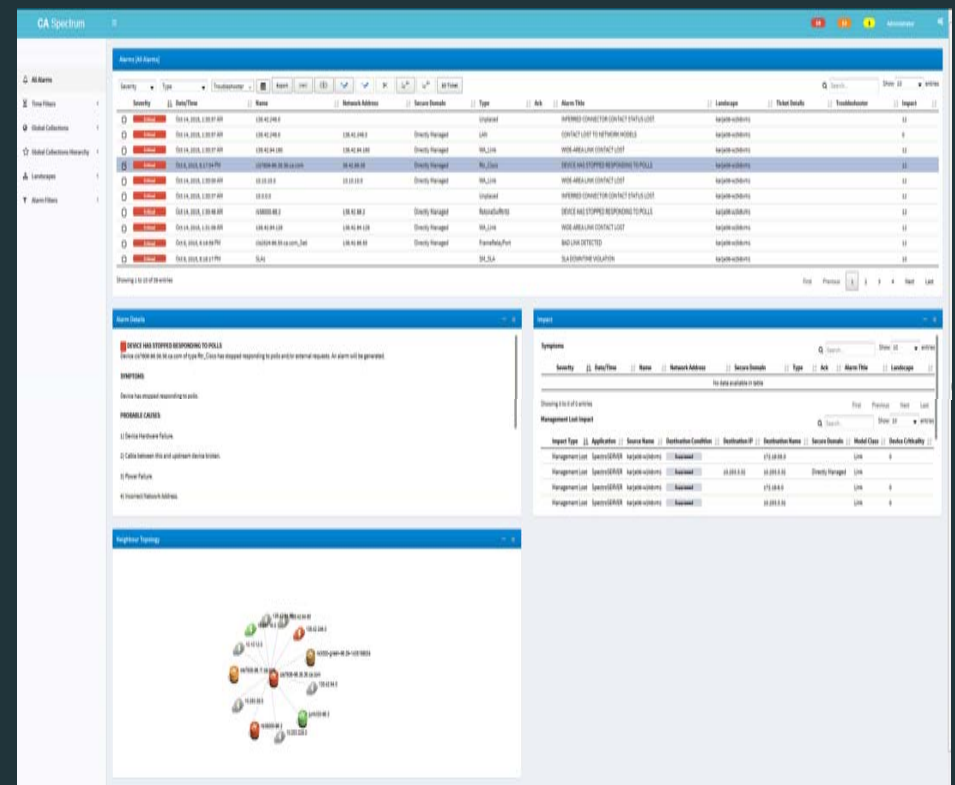


OR Directly with a URL

<http://hostname:8080/spectrum/webclient/index.jsp>

WebClient – View and Manage Alarms

- On the launch of Web Client Alarm Pane displays the latest 100 Alarms
- Columns specifying various details of each alarm
- Ability to drag and drop a column heading to shift that column to left or right



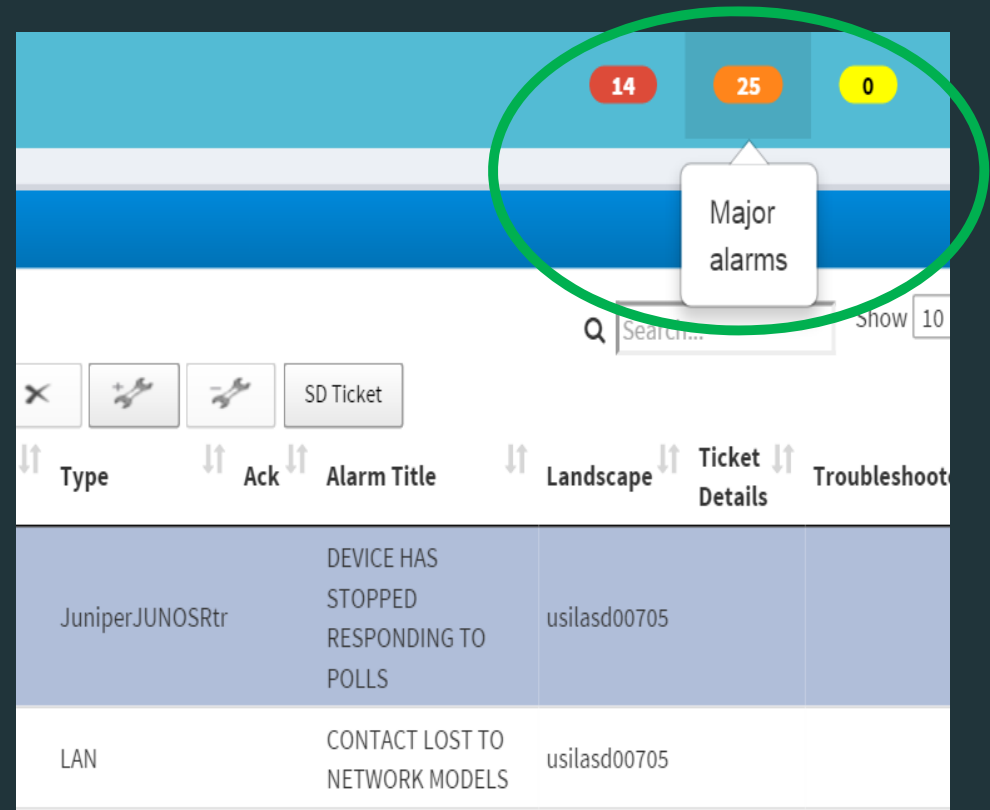
WebClient – Neighbor Topology

- Displays all the neighboring models that are connected to the device in context of the selected alarm in the Alarms pane
- Mouse-hover action displays Name, Network Address, Model Type Name, Model Class, MAC Address, and Location details



Manage Alarms by Severity

- Alarms Dashboard displays alarm count by severity



Acknowledge /Unacknowledge Alarms

Alarms [All Alarms]

Severity Type Troubleshooter Export Acknowledge selected alarms Unacknowledge selected alarms Acknowledge all alarms Unacknowledge all alarms Acknowledge none Unacknowledge none Ticket

Severity	Date/Time	Name	Network Address	Device	OS	Ack	Alarm Title
<input type="checkbox"/> Major	Oct 14, 2015, 1:34:13 AM	cis7505-96.11.ca.com	138.42.96.11	Directly Managed	SwCiscoIOS		MANAGEMENT AGENT LOST
<input type="checkbox"/> Major	Oct 8, 2015, 8:22:05 PM	172.20.150.1	172.20.150.1	Directly Managed	SwCiscoIOS	<input checked="" type="checkbox"/>	HIGH CPU UTILIZATION
<input checked="" type="checkbox"/> Major	Oct 10, 2015, 5:38:26 PM	junM7i-96.19	38.42.96.19	Directly Managed	JuniperJUNOSRtr	<input checked="" type="checkbox"/>	BLADE STATUS UNKNOWN
<input type="checkbox"/> Major	Oct 14, 2015, 1:50:36 AM	cis2524-blue-96.27.ca.com	138.42.96.27	Directly Managed	Rtr_Cisco		HIGH CPU UTILIZATION
<input type="checkbox"/> Major	Oct 8, 2015, 8:24:54 PM	cis2524-blue-96.26.ca.com	138.42.96.26	Directly Managed	Rtr_Cisco	<input checked="" type="checkbox"/>	ENVIRONMENTAL MONITOR TEMPERATURE STATUS CHANGE NOTIFICATION
<input type="checkbox"/> Major	Oct 8, 2015, 8:16:56 PM	cis7606-96.36.36.ca.com	38.42.96.36	Directly Managed	Rtr_Cisco		BLADE STATUS UNKNOWN
<input type="checkbox"/> Major	Oct 8, 2015, 8:26:58 PM	cis7206-96.41	138.42.96.41	Directly Managed	Rtr_Cisco	<input checked="" type="checkbox"/>	ENVIRONMENTAL MONITOR TEMPERATURE STATUS CHANGE NOTIFICATION
<input type="checkbox"/> Major	Oct 12, 2015, 1:32:28 AM	ssr2000-96.53	138.42.96.53	Directly Managed	XPedSwRtr		BLADE STATUS UNKNOWN
<input type="checkbox"/> Minor	Oct 8, 2015, 9:03:41 PM	AlarmMgmt		AlarmMgmt			RESIDUAL ALARMS EXIST

Clear Alarms

Confirm: Clearing alarm

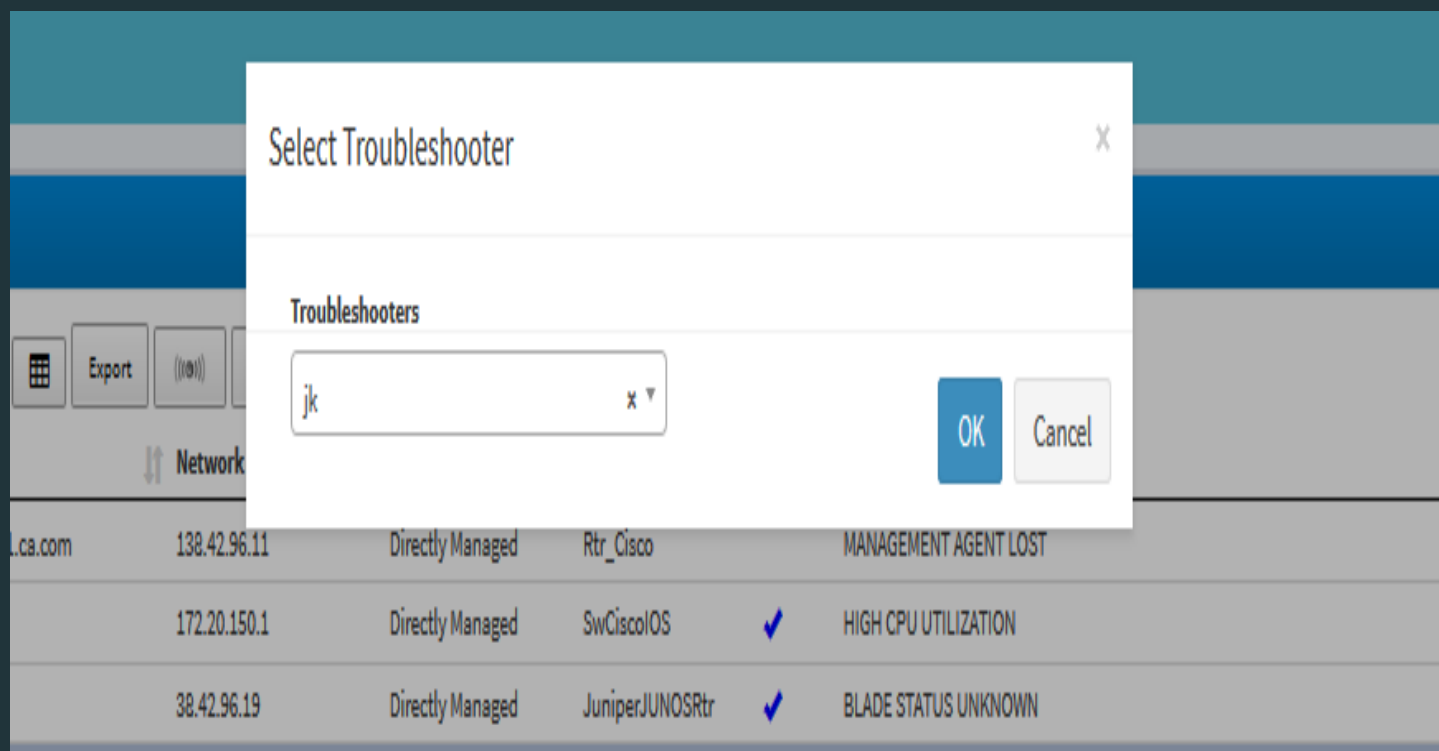
SPC-OCC-10208: Are you sure you want to clear the selected alarm?

OK

Cancel

Network				
138.42.96				
172.20.150.1	Directly Managed	SwCiscoIOS	✓	HIGH CPU UTILIZATION
38.42.96.19	Directly Managed	JuniperJUNOSRtr	✓	BLADE STATUS UNKNOWN

Assign/Un-assign Troubleshooter to Alarms



Exporting Alarms

Alarms [All Alarms]

Severity ▼ Type ▼ Troubleshooter ▼

Critical

Export

Copy

CSV

Excel

PDF

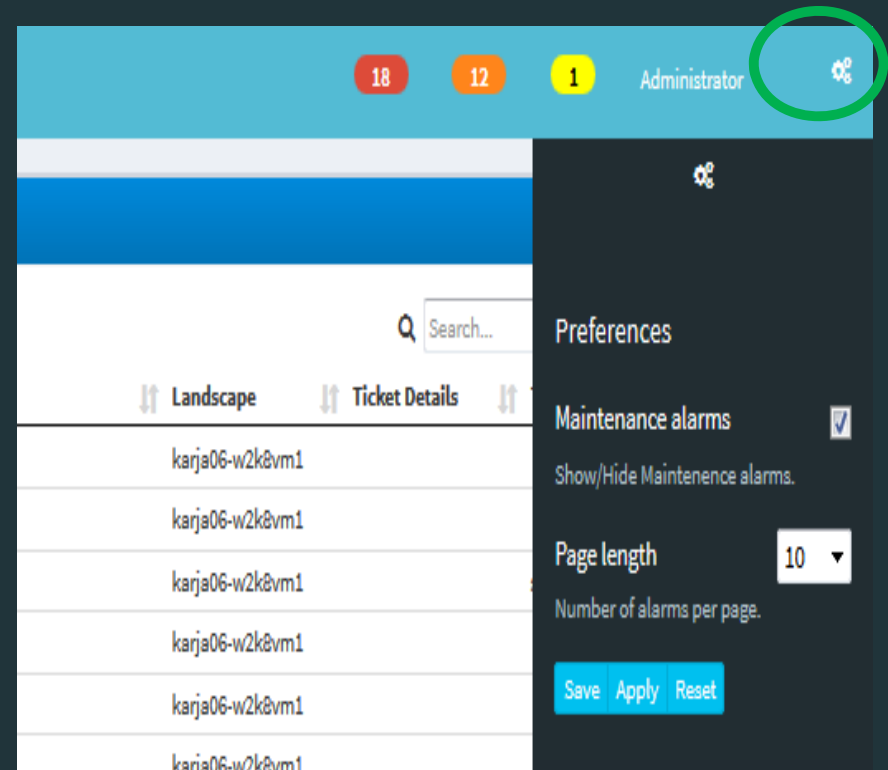
Print

Severity	Date	Network Address	Secure Domain	Type
<input checked="" type="checkbox"/> Critical	Jan 20, 2016, 9:52	38.42.96.19	Directly Managed	JuniperJUNOSRtr
<input type="checkbox"/> Critical	Jan 20, 2016, 8:00	192.168.140.0	Directly Managed	LAN
<input type="checkbox"/> Critical	Jan 20, 2016, 8:00:16 AM	38.42.96.33	Directly Managed	SwCat45xx

The Alarms pane provides triage options for devices on which an alarm is asserted

User Preferences

- Option to show or hide Maintenance alarms
- Change number of Alarms per page



Demo

No Java dependencies, no patching concerns on
client machines & no heavy maintenance needed



Embed the client into other portals & vice-versa

WebClient – Extend Current Capabilities

- Ability to customize columns for users
- Extend the OC security model completely to the WebClient
- Ability to visualize user defined, custom attributes in the UI
- More flexibility with the UI through user preferences
- Ability to use custom icons within the views
- Expose device-details as part of the webclient
- Getting towards some admin functions

WebClient – UI Aggregation, not just events

- Choose the content of your choice, with granularity
- Not dashboard, but a true CUSTOM CONSOLE

The screenshot displays the CA Spectrum WebClient interface, which is a custom console for network management. The interface is divided into several sections:

- Left Sidebar:** Contains navigation links for 'Latest 100 Alarms', 'All Alarms', 'Time Filters', 'Global Collections', 'Global Collections Hierarchy', 'Landscapes', and 'Alarm Filters'.
- Top Navigation Bar:** Includes tabs for 'Start Console', 'WebClient', 'Client Details', 'Client Log', 'Administration', 'GIS View', and 'Service Dashboard'. The 'WebClient' tab is currently selected.
- Main Content Area:**
 - Top Left:** A map of the United States with various states labeled (e.g., WYOMING, NEBRASKA, IOWA, MINNESOTA, WISCONSIN, MICHIGAN, OHIO, INDIANA, ILLINOIS, KANSAS, MISSOURI, ARKANSAS, OKLAHOMA, TEXAS, NEW MEXICO, COLORADO, UTAH, ARIZONA, NEVADA, CALIFORNIA, IDAHO, MONTANA, WYOMING, NEBRASKA, IOWA, MINNESOTA, WISCONSIN, MICHIGAN, OHIO, INDIANA, ILLINOIS, KANSAS, MISSOURI, ARKANSAS, OKLAHOMA, TEXAS, NEW MEXICO, COLORADO, UTAH, ARIZONA, NEVADA, CALIFORNIA, IDAHO, MONTANA, WYOMING).
 - Top Right:** A 'Performance Center' dashboard with tabs for 'Dashboards', 'Inventory', 'Reports', 'My Settings', and 'Syst'. It shows 'System health: good' and 'Last Hour: May 6, 2016 4:43 AM - 5:43'. Below this is a 'Network Device Health' section with a table of interface errors/discards.
 - Bottom Left:** A table titled 'Addresses' showing a list of network addresses, host names, subnets, interface names, and descriptions.
 - Bottom Right:** A 'Performance Center' dashboard with tabs for 'Dashboards', 'Inventory', 'Reports', 'My Settings', and 'Syst'. It shows 'System health: good' and 'Last Hour: May 6, 2016 4:43 AM - 5:43'. Below this is a 'Network Device Health' section with a table of interface errors/discards.

Table: Top Interface Errors/Discards (Table)

Device Name	Name	Description	Discards In - Total	Discards Out - Total	Errors In - Total	Errors Out - Total
JunM71-96-19	fe-0/0/3	fe-0/0/3	36.5 kPackets	0 pkts	378.5 kPackets	0 pkts
Sen21250-NetSc...	1/7	1/7	13.6 kPackets	12.3 kPackets	12.8 kPackets	14 kPackets
Sen21250-NetSc...	Foreign Exchange	Foreign Exchange	13.3 kPackets	11.6 kPackets	11.8 kPackets	13.3 kPackets
Sen21250-NetSc...	1/1	1/1	13.2 kPackets	12.2 kPackets	13.5 kPackets	12.9 kPackets

Table: Addresses

Domain	Address	Host Name	Subnet	Interface Name	Interface Description	Life Cycle St...
Default Domain	10.1.45.4	R4.ca.com	10.1.45.0/24	E10/2	Ethernet0/2	Active
Default Domain	138.42.96.53	ssr2000-96-53	138.42.96.53/32	lo0	IP interface: lo0	Active
Default Domain	10.253.250.2	cat4503-eyae-96...	10.253.250.0/30	Fa3/5	FastEthernet3/5	Active
Default Domain	10.253.250.1	rs38000-96-2	10.253.250.0/30	250	IP interface: 250	Active
Default Domain	138.42.94.34	srca2621-96-8-8	138.42.94.32/30	Se0/0.101	Serial0/0.101	Active

Alarms by Severity: A bar chart showing the distribution of alarms by severity. The y-axis represents the count of alarms, ranging from 0 to 115. The x-axis shows the severity levels: Critical, Major, Minor, Warning, Info, and Clear. The 'Critical' bar is the tallest, reaching approximately 115.

Quick Filter: A section for filtering alarms, showing a 'Time' filter set to 'No Filter' and a 'Filter' button.

WebClient – The Future of our UI's

- New Web Client Topology
 - Evaluating multiple libraries: GoJS, Tom Sawyer, yworks
 - Key capabilities being considered:
 - Zoom in/out
 - Scale
 - Device Search
 - Dynamic Update
 - Add/Delete devices
 - State change color reflection
 - Dynamic Binding
 - Custom Icons
 - Export option

