

**Lutz Holzbecher** 

**Customer Success Solution Architect** 



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# **Top 5 Release Feature Themes**

- NetOps Alarm Console improved UX, filters, and events
- Extended PDF reporting options in CA Performance Center
- Automation and OpenAPI
- Baseline threshold enhancements to support % from baseline rules
- Workflow and UX improvements for Cisco ACI including VMM vSphere support



### **NetOps Alarm Console**

#### Key use cases

- I need to be able to view Fault and Performance in a unified and easy to use web application with simple workflows to solve problems faster
- I don't want to worry about client side requirements such as Java or Flash
- I need the experience to be intuitive leveraging industry best practices while innovating using today's technologies
- I need smart defaults out of the box but smart views that adapt to what I need to see and do for my specific responsibility
- Me and my team need to take advantage of alarm filtering and sorting to ensure we
  have visibility to the items we need to monitor
- When evaluation and alarm, I need to be able to view related events to understand frequency and related issues which may be relevant



**NetOps Alarm View** 

Over 20 columns available as needed

**UX** improvements

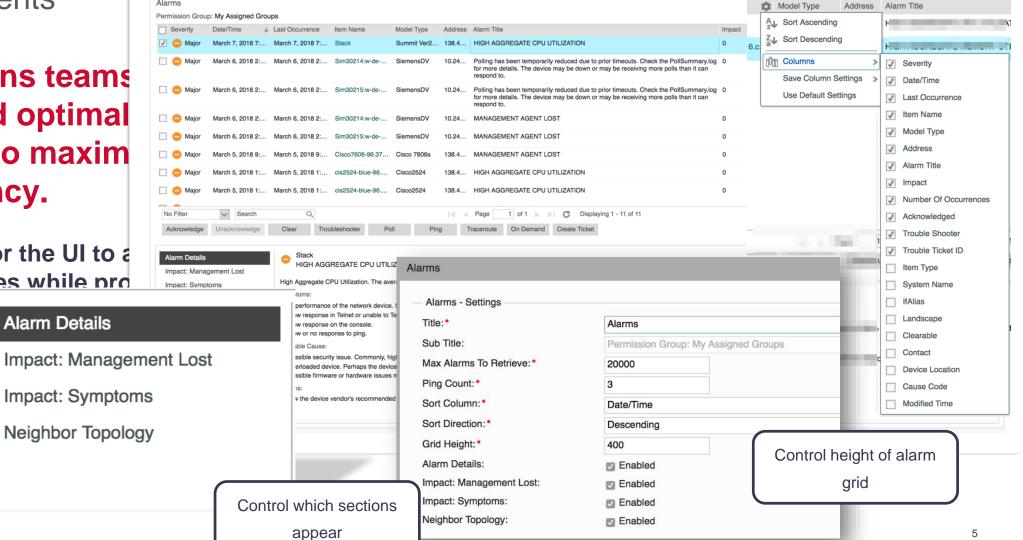
My Operations teams a simple and optimal experience to maxim their efficiency.

The capability for the UI to a various use cases while nrd

**Alarm Details** 

the right data essential.

Vertical re-design to maximize space





# Simple workflows enable quick access between fault & performance

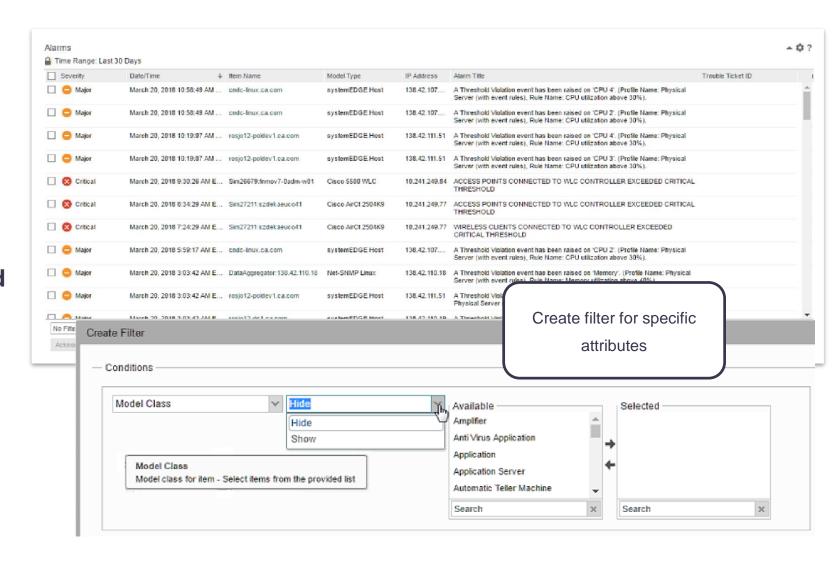
Alarms **▲ ‡**? I need to be able to e Contextual launches from alarm grid or details ensures the details I Permission Group: My Assigned Groups Trouble Ticket ID need are only a click away access performance in context for 10.24.. Quick launch On-Demand report with automatic context of devices/interfaces in selected items view March 5, 2018 1:... March 5, 2018 1:... cis2524-blue-96... Ping Clear Troubleshooter Poll Traceroute On Demand Create Ticket Being able to generate and Chart with Multiple Metrics performance data from my HIGH AGGREGATE CPU UTILIZATION Items or Groups to Include key to stre Add Items improving 70.00 65.00 Add / Remove Items 60.00 Metric Calculate Leve by Group by Device by Component 40.00 Metrics to Include 35.00 Selected 30.00 Available Metric Availability 15.00-10.00 My User Accoun 5-Minute Resolution Time Zone: EST Run Save Cancel

# Easy to build and use alarm filters

I need to be able to filter my alarm view to ensure I don't miss important issues and can organize my alarm lists

Operations are evaluated on speed and efficiency and are held accountable when things are missed.

- Create/Edit/Save alarm filters
- Filter capability based on AND/OR conditions
- Filter support various attribute types
- Filter supports ability to Hide/Show attributes
- Viewing filter results on Alarm Console View



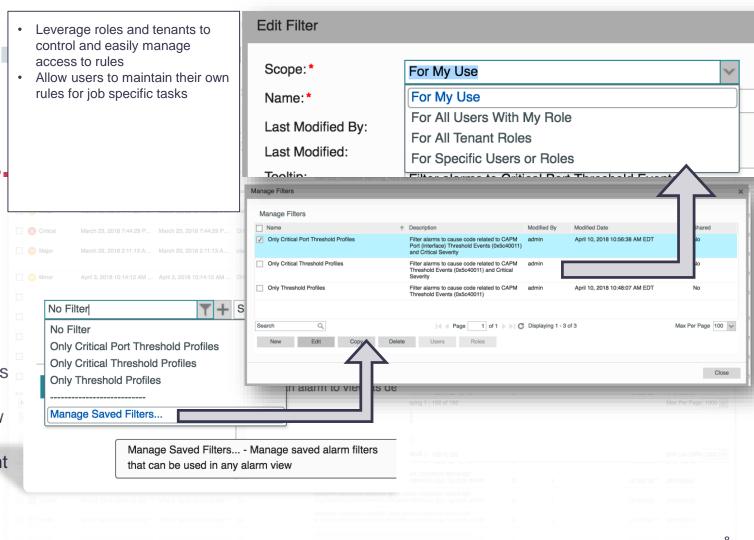


# Share and manage alarm filters

Teams need alarm filters to ensure they don't miss anything and can easily track active alarms & tickets.

An operations team is only as effective as their visibility into situations on the network.

- Leverage organization and team best practices through sophisticated alarm filters
- Specify who can see a rule during or after a filter is created
- Leverage Roles to automatically add rules for new users
- Granular Role controls ensure users have the right permissions





# **Expanded NetOps PDF/Reporting**

By popular demand...

Idea  Idea	Votes
An On-Demand Report Saves Current Page	21
Automatic report generation without E-mail by CAPC	53
scheduled reports - want to send link instead of report.	13
Migrate monthly PDF Reports from eH to CAPM	7
PDF Store	34
Print only saves current page	32
Save scheduled pdf/csv reports on CAPC server and choose a target directory	27
	187



# PDF Rendering now supports multi-page views and report link distribution

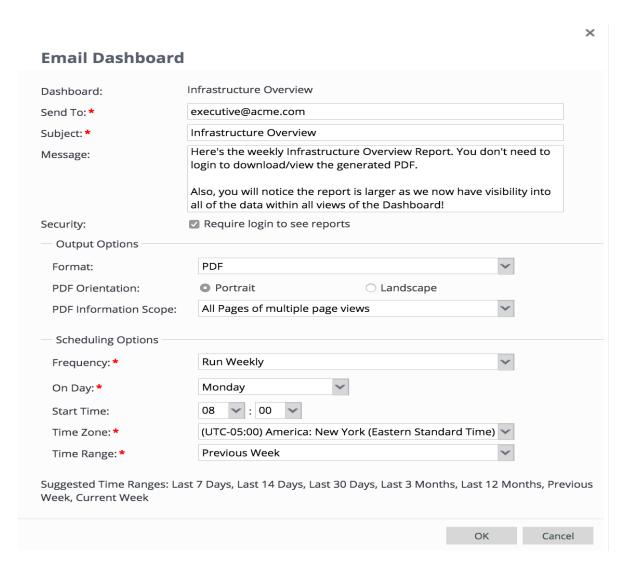
- I need to be able to schedule PDF generation of CAPC Dashboards including all pages of multi-page views
- I need to be able to schedule PDF generation of CAPC context pages including all supported sections and pages of multi-page views
- I need to be able to provide a link to the scheduled report in an email
- I need to be able to continue to leverage existing functionality to send reports as attachments in email links
- I need my larger schedule report jobs to minimize impact to users leveraging ad-hoc Dashboards
- I need users to be able to access their reports from a Report list
- I need to be able to provide unauthenticated access to reports as needed
- I need to be able to store generated PDFs on a fileserver so users can access pre-generated reports quickly
- I need to be able to leverage CAPC as my PDF storage or chose a different filesystem (mount point in CAPC)
- I need to be able to control the number of report files retained to manage report storage requirements
- I need the Report scheduler to notify me when I am reaching capacity of my disk storage to avoid running out of space and/or crashing the system



### **Expanded PDF Controls**

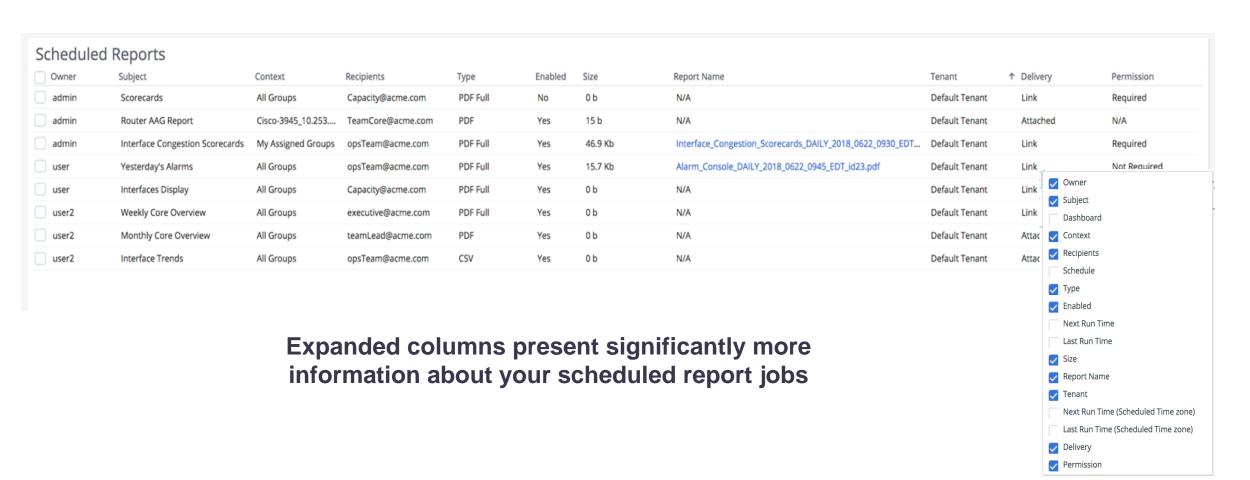
Does recipient need to login?

**Control scope of PDF export** 



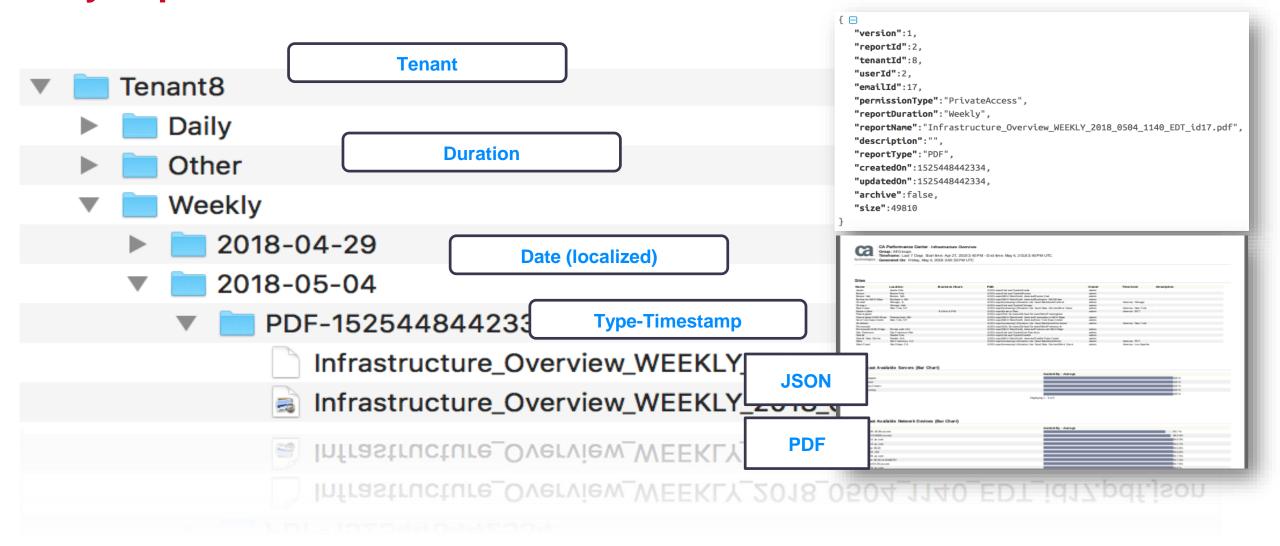


# My Reports UI improvements

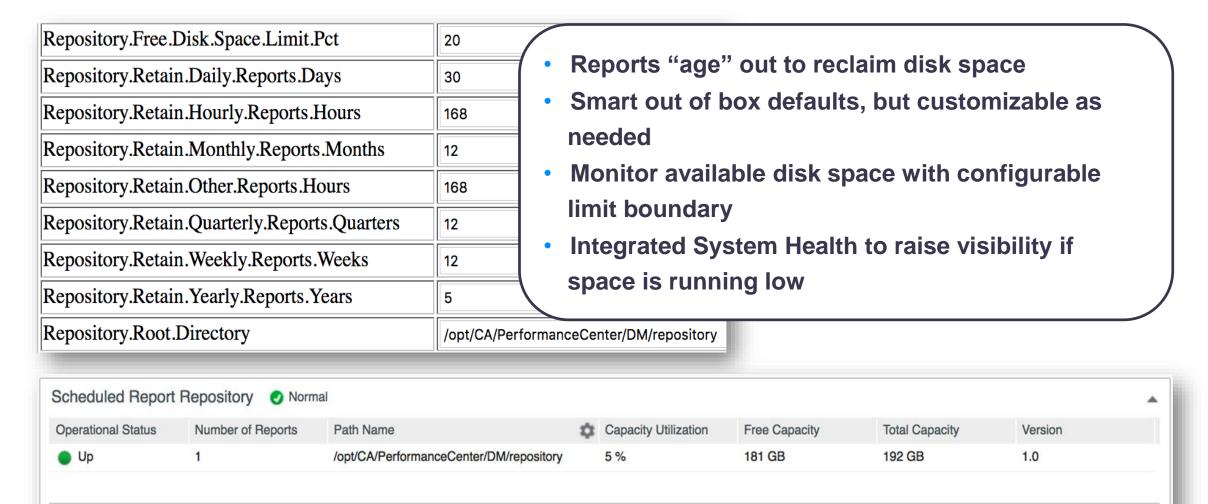




# Folder/file hierarchy provides separation at tenant, user and other key aspects



# You can control how long to keep the files and we'll make sure you don't fill up the disk



1 of 1 Displaying 1 - 1 of 1

Max Per Page 10

Search

Q

Page

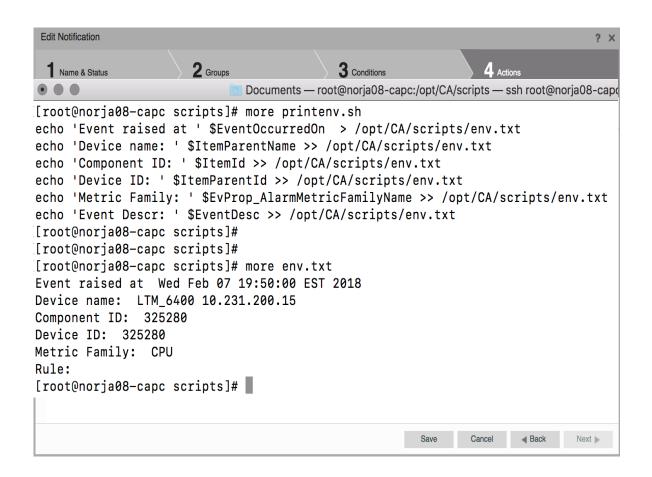
# **Scripting from event notifications**

#### **Key Use Cases:**

- Enhance event data to streamline triage
- Send events to multiple trap destinations
- Drive automation & self-healing

### **Highlights:**

- Key attributes passed in environment of script shell
- Serial execution to ensure proper queue order
- Logging and timeout events





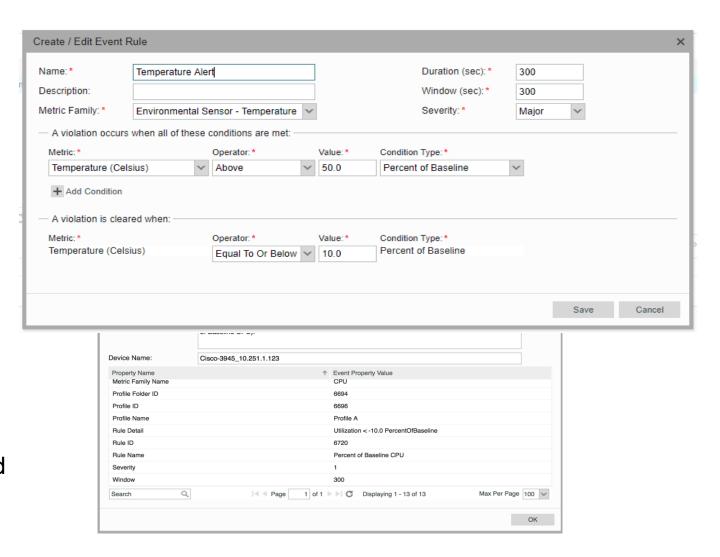
# Simplify Baseline Comparison Event Rules - % of Baseline

#### **Key Use Cases:**

- Thresholds for metrics with very low standard deviation from baseline
- Normalized baseline threshold for groups with high variance in standard deviations from baseline
- Alert on DSL or VSDL re-training at a lower speed
  - Alert on bandwidth drop of 25% for an extended period and alert the NOC

### **Highlights:**

 New rule type built into the standard threshold rules





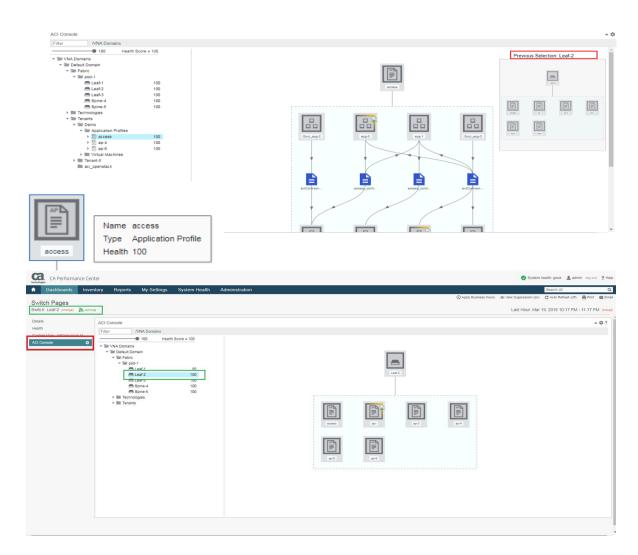
# Cisco ACI Workflow and Navigation Enhancements

#### **Key Use Cases:**

- Zoom too small in history boxes and not sure what it is for
- Browser history is not kept when navigating back
- Would be great to show more details for nodes
- Why can't I see the ACI Console tab in Switch context page?

### **Highlights:**

- Enlarge the Zoom-in history boxes to make it more visible; Add title on top of box
- Properly maintain browser history using url rewriting
- Show details with Mouse over on topology icons and navigate to context page
- Embedded ACI Console Tab into Switch Context page





# **OpenAPI Support for SD-WAN**

#### Key use cases:

- I need to be able to export SD-WAN overlay inventory, relationship, and performance data
- I need to be able to leverage the OpenAPI App platform to drive enhanced analytics and new visualizations

#### **Query Expression**



#### ▼ OData URL

Copy to clipboard

http://norja08-dev-da.bluesky.ca.com:8581/odata/api/sdnslapathmfs?\$apply=groupby(groups/ID, aggregate(im\_JitterPercentOfThreshold with max as Value, im\_LatencyPercentOfThreshold with max as Value1, im\_PacketLossPercentagePercentOfThreshold with max as Value2))&&resolution=RATE&period=1d&\$top=500&\$skip=0&top=1000&\$format=text/csv&\$select=ID,Value&\$filter=((groups/ID eq 22965) and (groups/ID eq 22967) and ((Value gt 100) or (Value1 gt 100) or (Value2 gt 100)))

#### Feature highlights:

- OpenAPI Support for key SD-WAN items: Devices, Interfaces, SLA Classes, Tunnels, & App Classes
- Key relationships to simplify data extraction and visualization
- Query Builder support for easy exploration and query URL generation



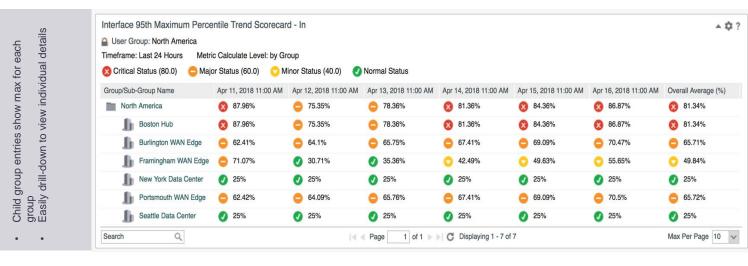
# Interface (max) 95th Percentile Group Scorecard

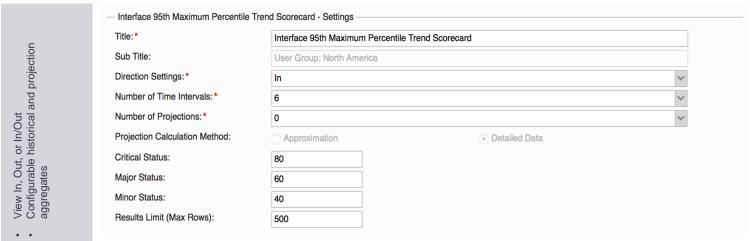
#### **Key Use Cases**

- Capacity planners need to easily understand circuits with capacity needs across multiple groups
- Capacity planning needs to easily understand which interface is impacting a logical service or location

### **Feature Highlights**

- 1. New out of the box view leverages industry best practice 95<sup>th</sup> percentile with custom max aggregation
- New group trend scorecard shows individual highest utilization value for each group







# **Questions?**







