CA NetMaster to Mobile and Beyond a bold new frontier

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CA Technologies

August 12th 2013
13296

Agenda

- CA Performance Alerts and Charts
  - Technology driven our Sydney team
    - Wendy Wong – Senior Software Architect

- CA Chorus™ Infrastructure Management for Networks and Systems

CA Performance Alerts and Charts

Complete your sessions evaluation online at SHARE.org/BostonEval

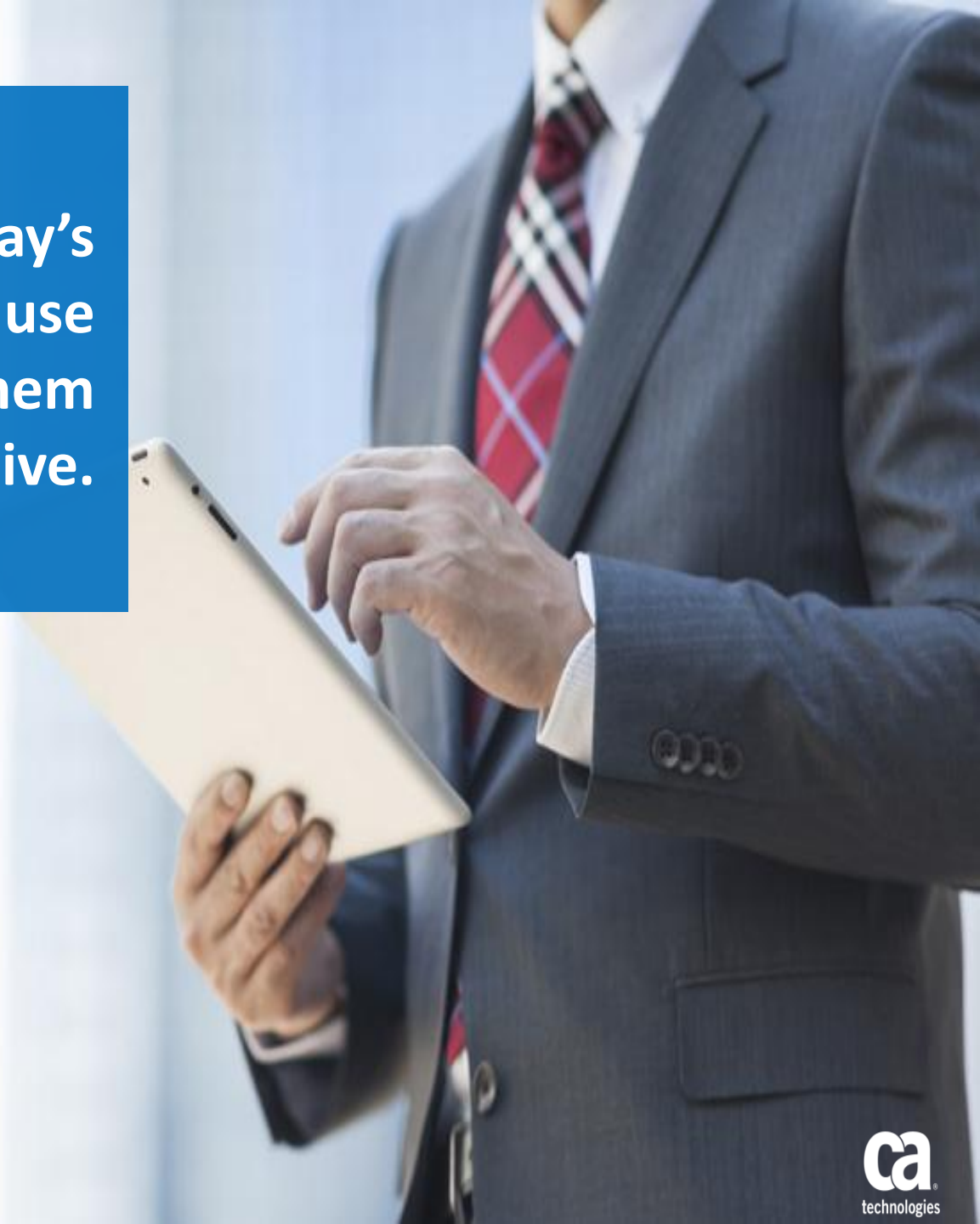# Things we never thought w/could be improved upon

Made easier by mobile device
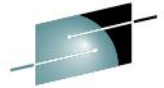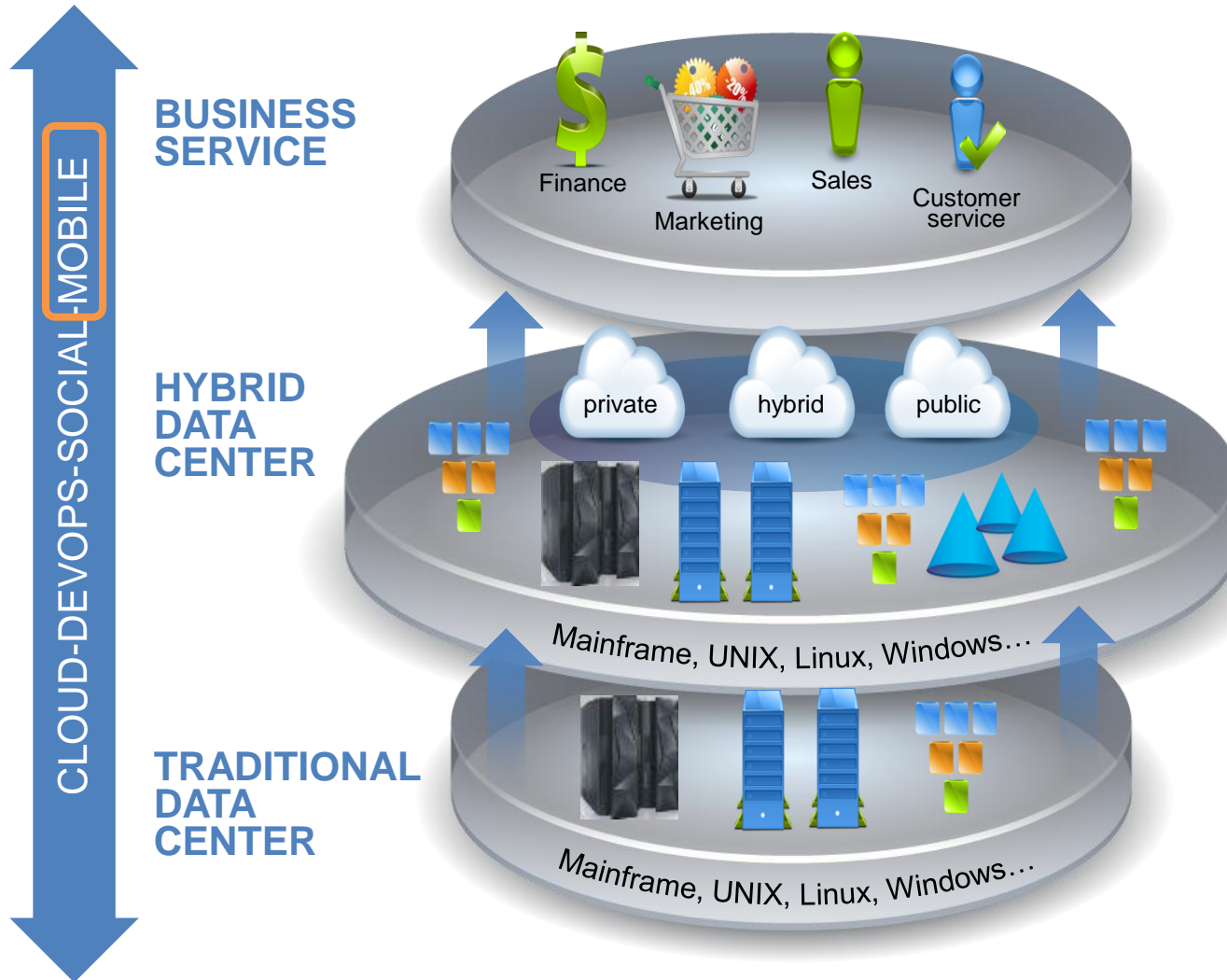
What a difference
8 years make.
St Peter's Square
2005 vs. 2013

2013

Given a chance, today's mobile employees will use whichever tools help them be most productive.

Are you familiar with this situation?

CLOUD-DEVOPS-SOCIAL-MOBILE

BUSINESS SERVICE

Finance

Marketing

Sales

Customer service

HYBRID DATA CENTER

private

hybrid

public

Mainframe, UNIX, Linux, Windows…

TRADITIONAL DATA CENTER

Mainframe, UNIX, Linux, Windows…

" CIOs need to prepare their organizations to operate on different planes, in a variety of analog, virtual, and mobile universes; they should be creating strategies to support a diversification of business models into all of those areas. In a worked, they should be seeking to multiversify."

Michael Hickens
Wall Street Journal

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Delivery Patterns

Pros

1. **Mobile Browser**
   - Faster time to market
   - Does not require special software on mobile device

2. **Native App**
   - Likely better usability
   - Using "smarts" reduces work on server side and reduces network load

Cons

1. **Mobile Browser**
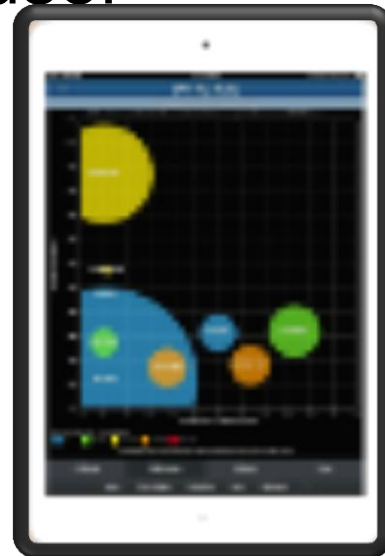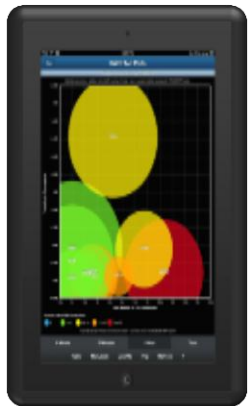   - Not all created equal
   - More data through the pipe

2. **Native App**
   - Longer time to market
     - Takes longer to develop functionality

Performance Mobile believes…

… that being truly mobile doesn't mean being tied to one device.

Our solution works anywhere the user needs to be.

Architecture:

Support most popular devices

Exploit existing technology

Broaden scope to future products
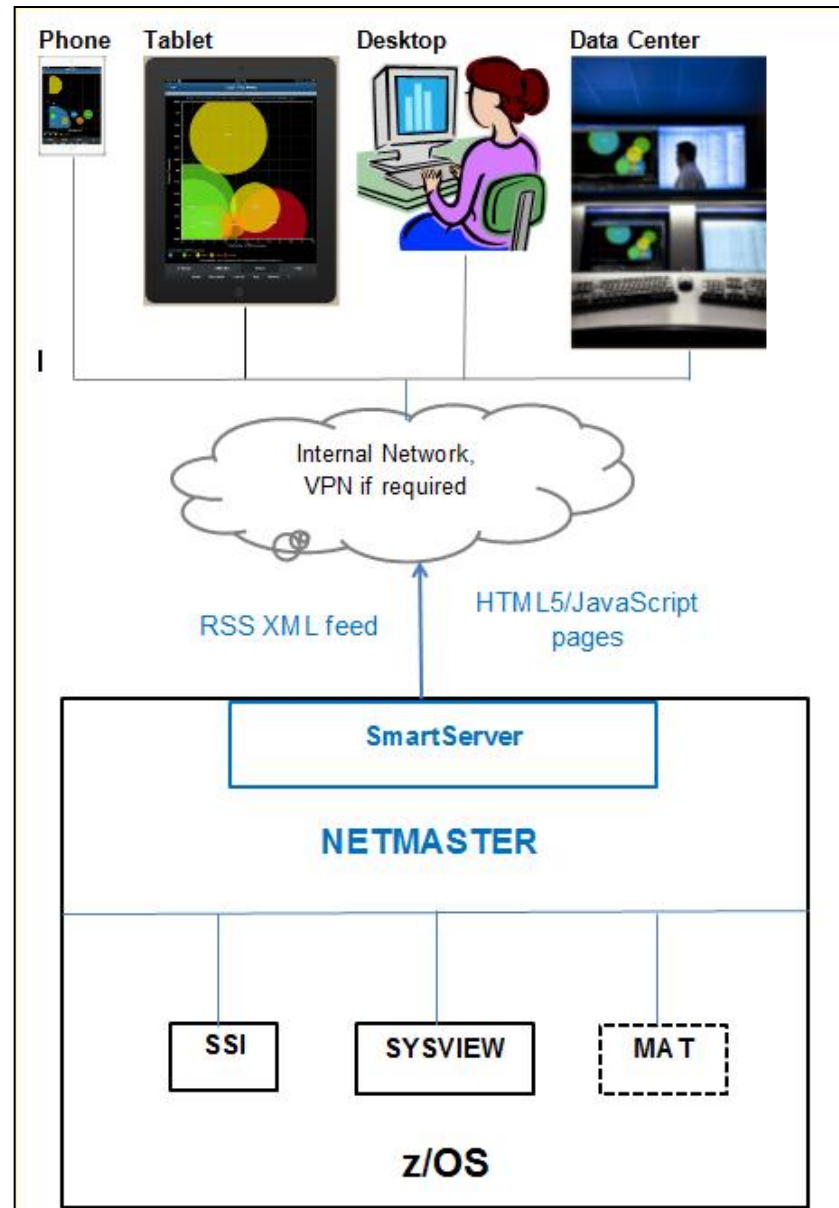
Performance Mobile shows…

…that mainframe products can have both a new look and functionality

- At the mainframe back end, real-time network flow analysis data is collected using our patented *data buffering and decoupling invention.*

- At the UI front end, this same data is displayed using our *systems management cognitive map invention* (patent pending)

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Performance Mobile transforms…
… the mainframe EUE with innovative visualization

Customers complained that they get landed with 'too much too soon' when using their mainframe systems management products. They asked us to isolate and highlight just the most significant things first. This means they don't drown in detail.
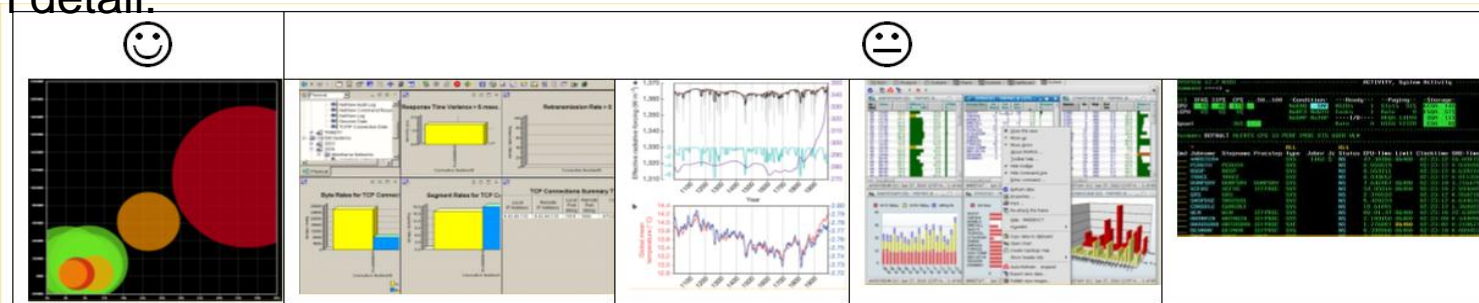
Visualization is more than pretty pictures. Successful visualization can reduce the time it takes to understand the underlying data, to find relationships, and to get the information searched. ...

Innovative ideas, compelling strategies, and good coherent plans often come about when information is viewed as a new way.

Visualization Overview
M. Ghanbari, IEEE 2007

Performance Mobile delivers…

… new ways to engage with traditional mainframe systems management data:

1. Alerts delivered by RSS feeds
    (alert data comes from NetMaster and others)

2. Network Performance Charts delivered by a mobile web application
    (real-time network flow analysis data and historical network growth data come from NetMaster)

3. System and Application Performance Charts delivered by a mobile web application
    (real-time z/OS, CICS, MQ and other data comes from SYSVIEW, application performance and tuning data comes from MAT)
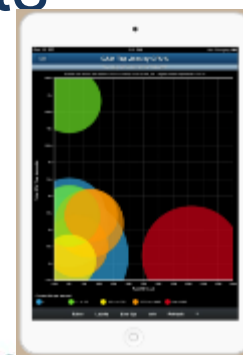
RSS Alert Feed

What it does

Mainframe server produces lists of **mainframe management alerts** in RSS 'news feed' format.

- These mainframe alerts look and behave just like any other RSS news feed.

- Feed data is formatted and presented by the individual user's choice of RSS client.

- RSS clients exist on many platforms.

What it looks like

This depends entirely on the choice of client! (e.g. this shows the iPad xFeed app)

Network and Performance Charts

What it does

Mainframe server retrieves mainframe network performance data from NetMaster, then generates graphical mobile web pages to display it.

- Real-time IP network flow analysis data helps problem diagnosis, and shows network usage patterns of critical mainframe applications and servers.

- Historical high level TCP/IP network traffic growth data helps operational reviews and capacity planning.

What it looks like

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Performance Charts Systems

What it does

What it looks like

Mainframe server retrieves performance data from SYSVIEW then generates graphical mobile web pages to display it.

- SYSVIEW reaches deep into the operating system to measure every aspect of system, user and resource activity.

- .

Mobility in the workplace

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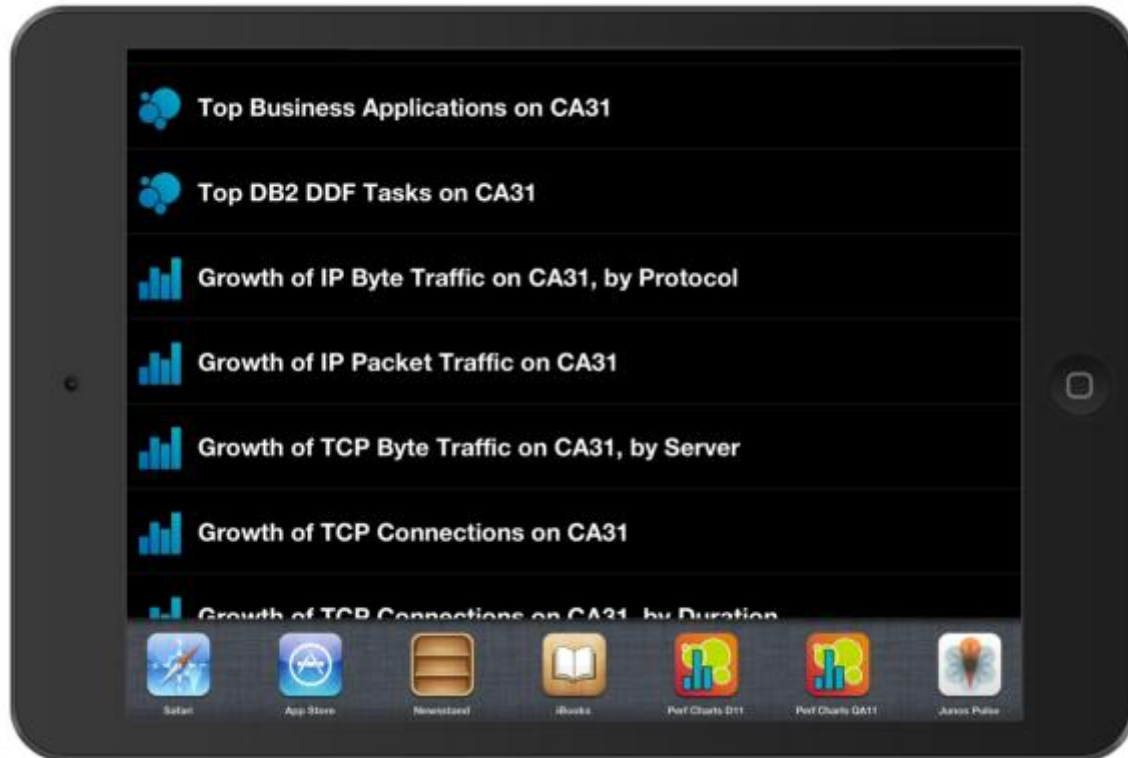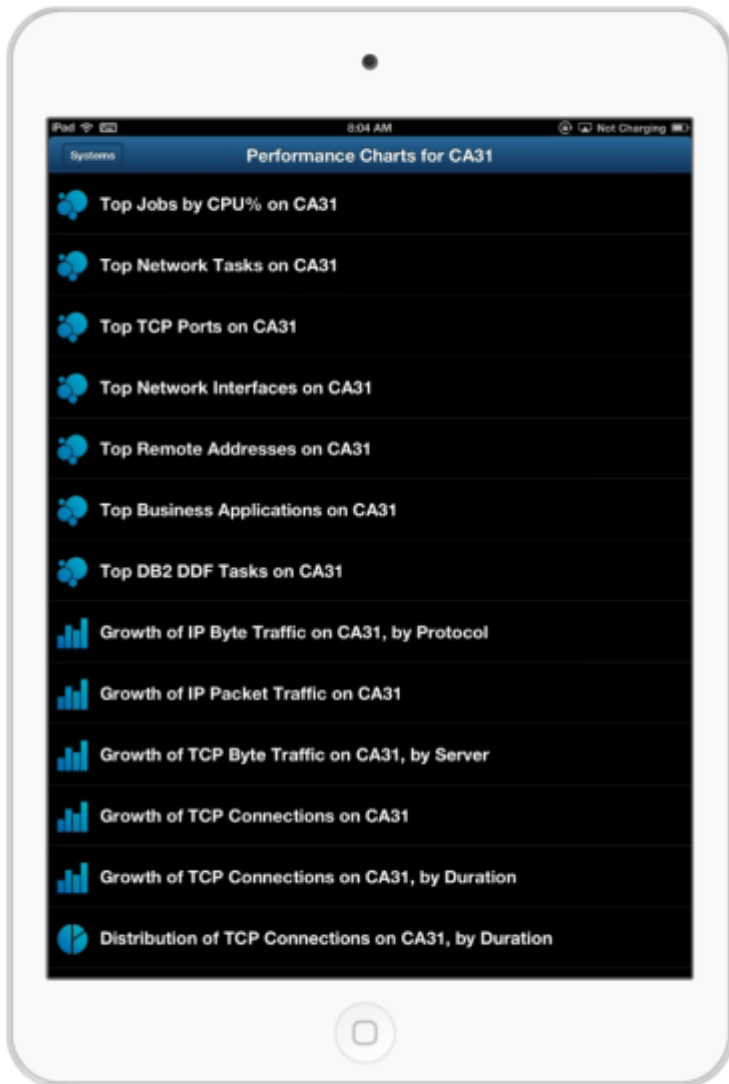
Multisystem Support

Normal NetMaster Connections

- INMC

- Link & SYNC

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Bubble Charts

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Background Data

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•••• in Boston
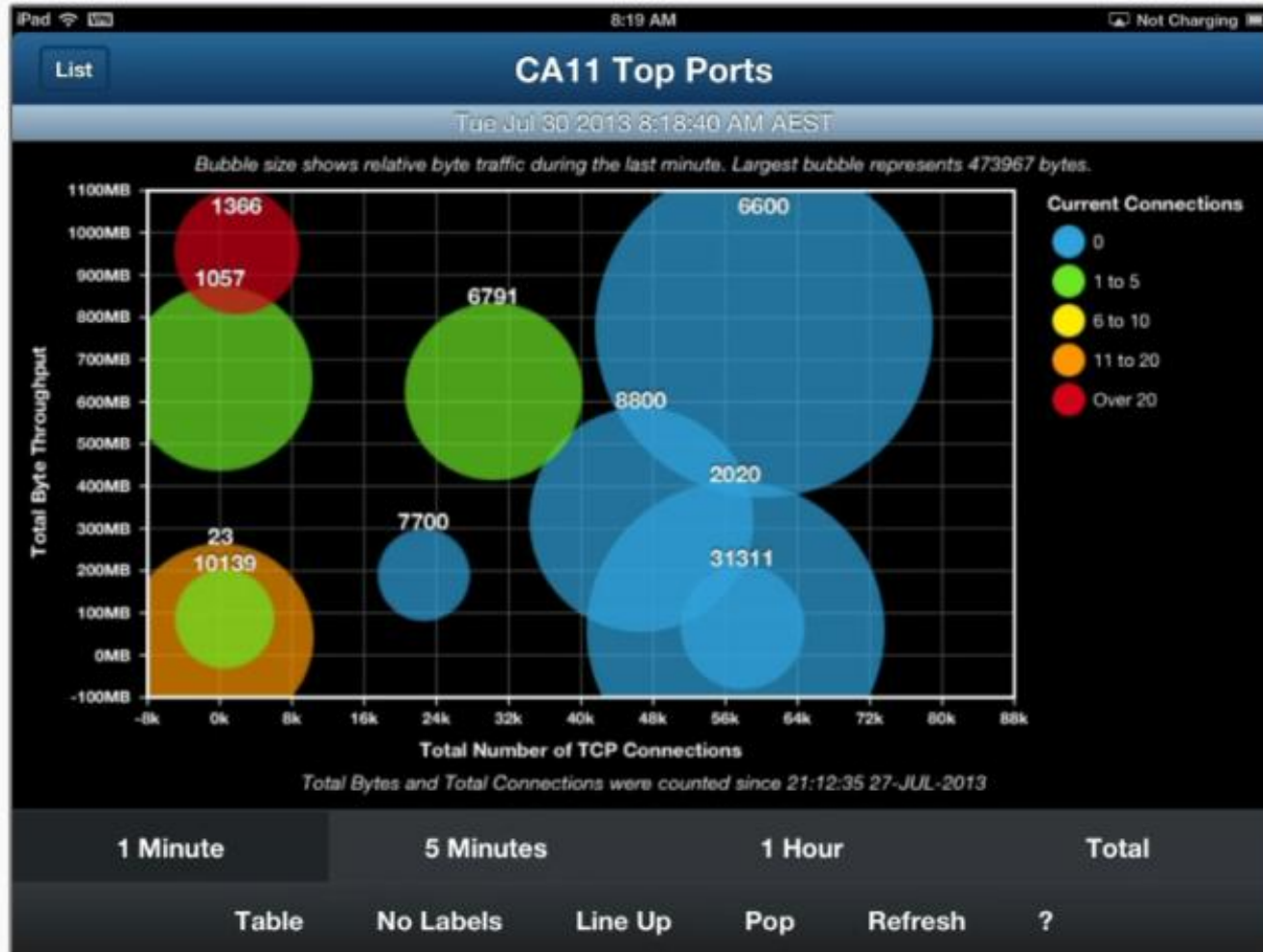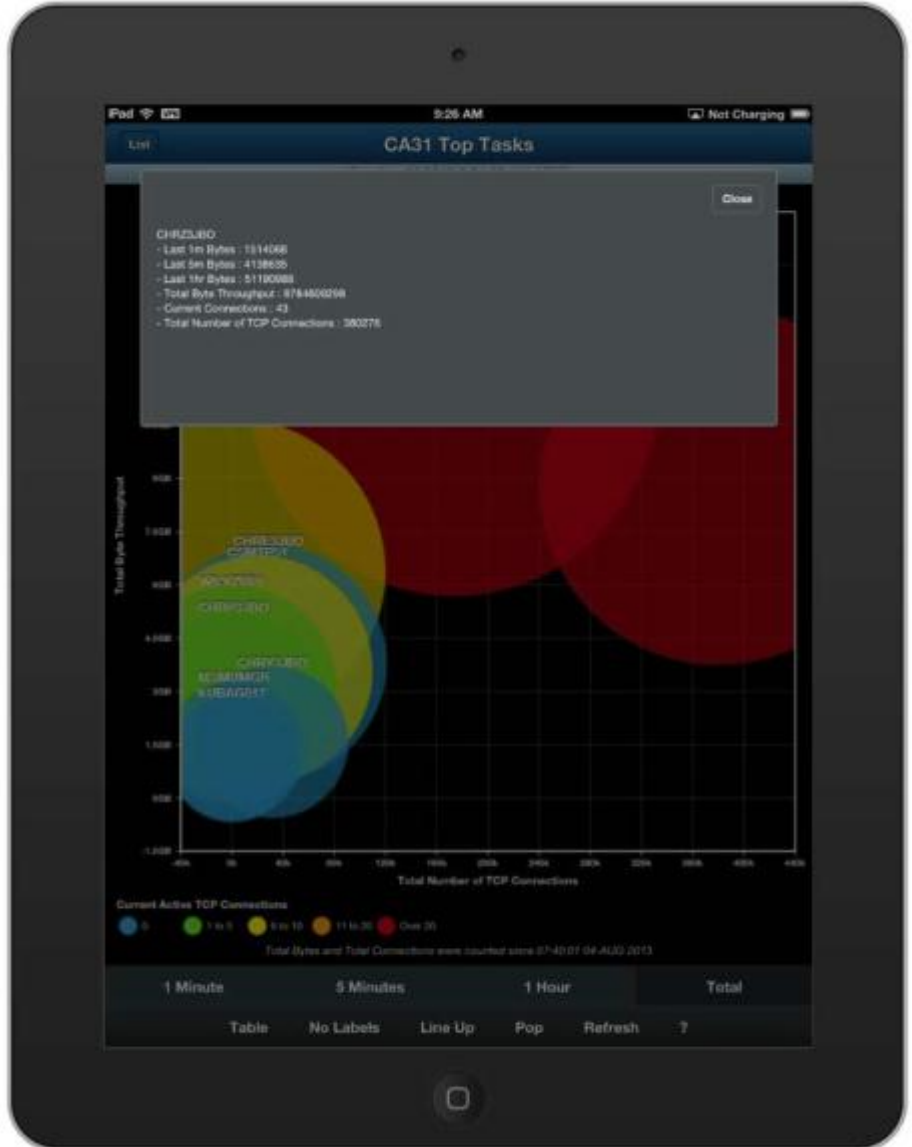
Table Data

CA11 Top Ports

Tue Jul 30 2013 8:18:40 AM AEST

Port	Connections		Bytes			
	Current	Total	Last Minute	Last 5 Mins	Last Hour	Total
6600	0	60260	473967	1824103	23167840	773338068
2020	0	57110	368710	2215258	25619897	59370462
8800	0	46679	208690	867262	11141957	320850989
23	17	88	143473	704218	5416515	44004523
1057	1	1	142398	759348	14260396	655353473
6791	4	30322	131172	1096314	13464630	624451421
1366	31	1875	65178	497346	9506190	955779333
31311	0	57900	63768	362312	4213012	65732668
10139	3	529	40876	227222	2668388	85952634
7700	0	22581	35405	341075	4386509	190109281

| 1 Minute | 5 Minutes | 1 Hour | Total |

Chart   Refresh   ?

Performance Charts in a modern desktop browser

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Extensive Help facilities

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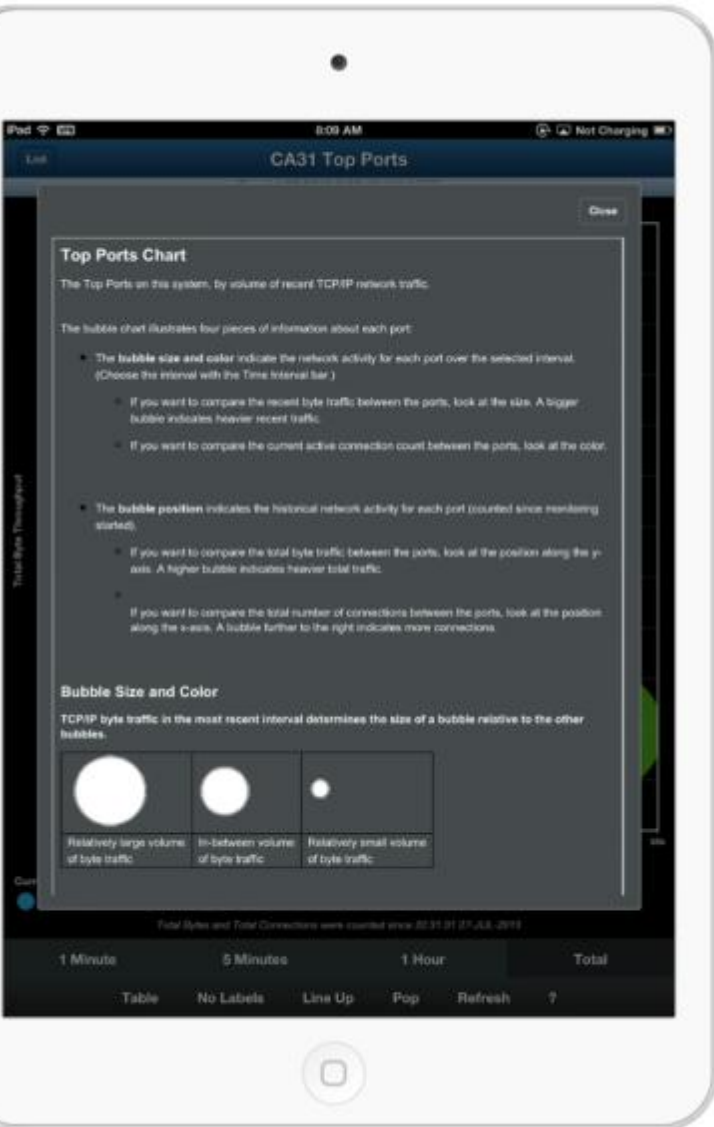
Extensive Help - Examples

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iPad Bookshelf

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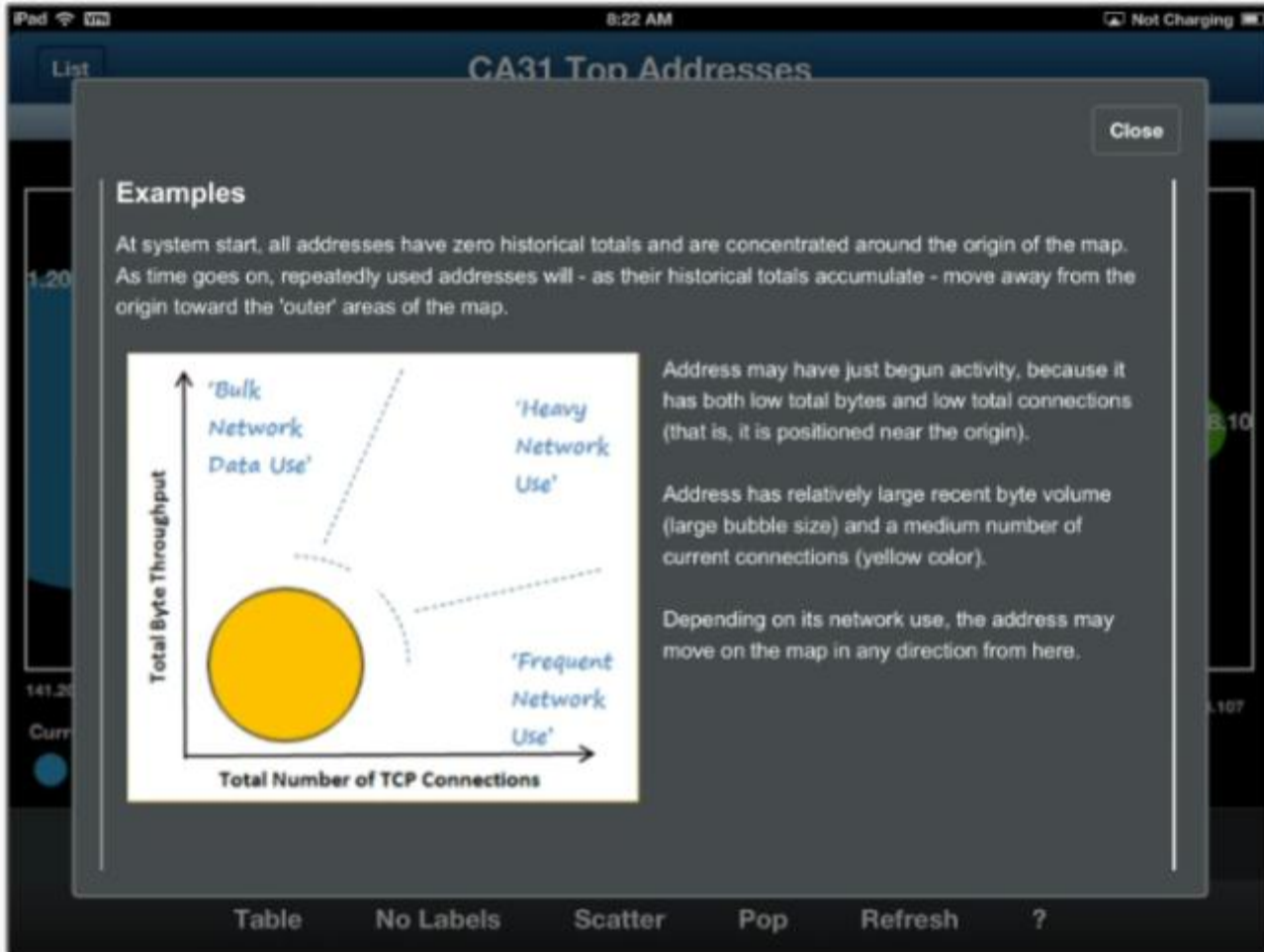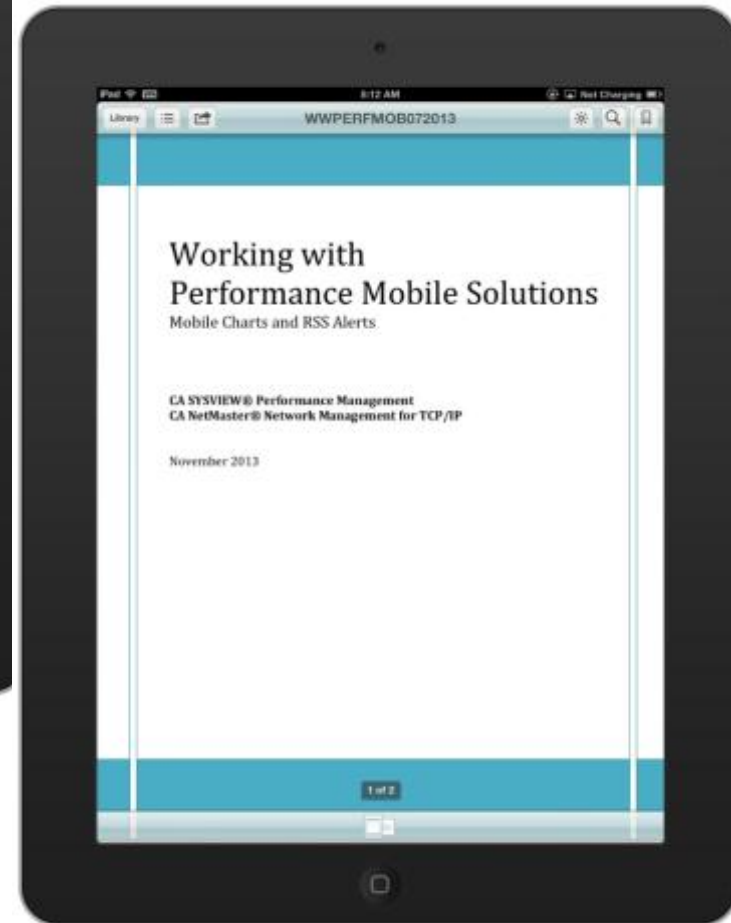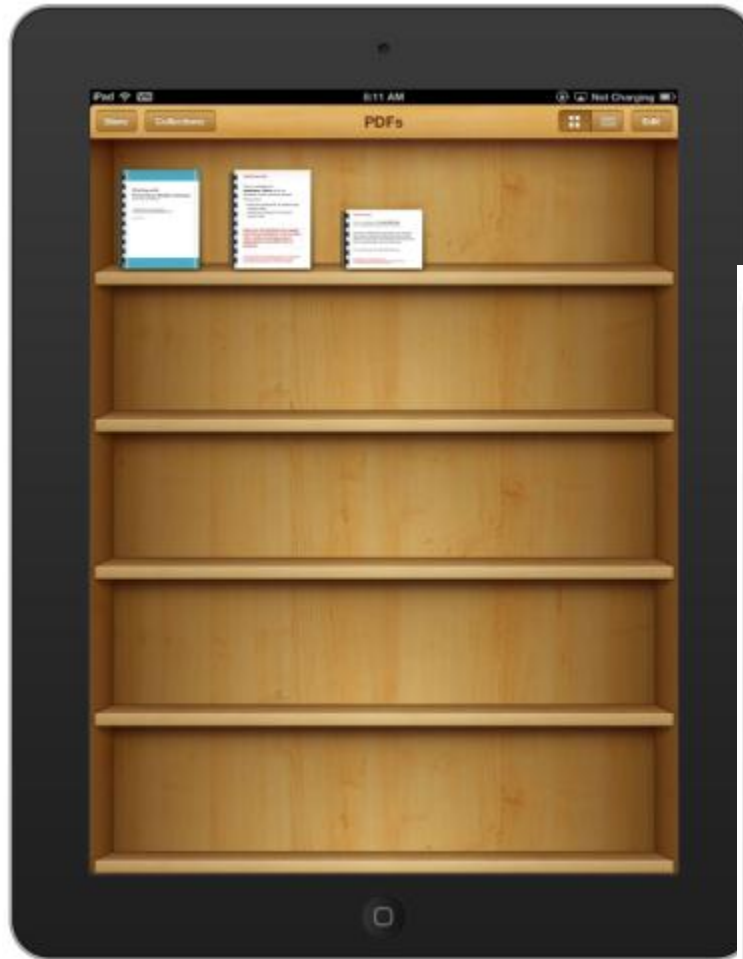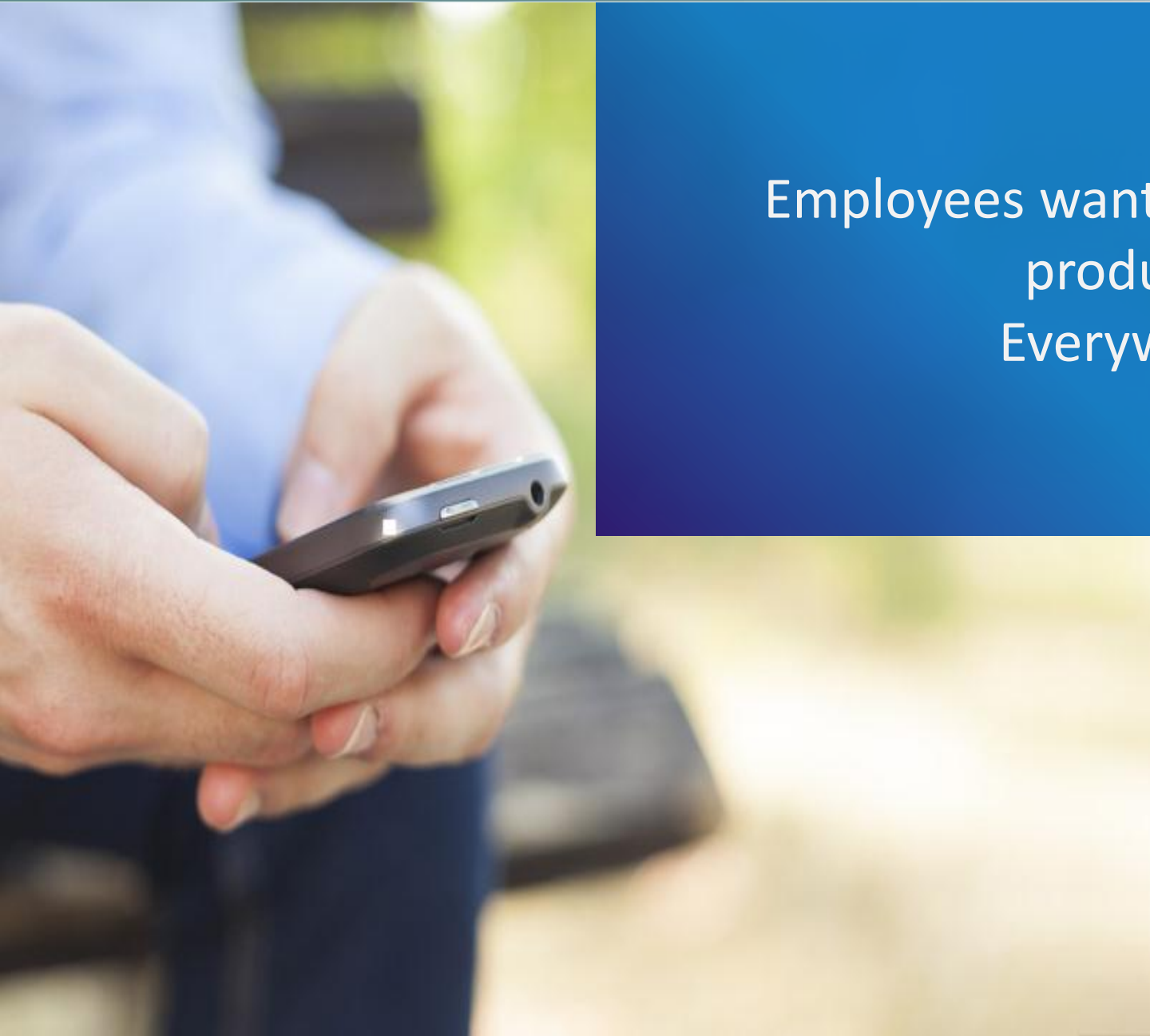
Employees want to be productive. Everywhere.

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CA Chorus™ Infrastructure Management for Networks and Systems

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CA Chorus Architecture

CA Chorus™ an overview…

Integrated Workspace	Role-Based Navigation	Graphical Diagnostics	Knowledge Management	Process Automation
▪ Singular interaction model ▪ Fast Learning Curve	▪ Matches Job Functions ▪ Leverage resources across platforms	▪ Data in human readable formats ▪ Solve problems faster	• Community knowledge and expertise at users fingertips • Increases the whole team's efficiency	▪ Wizard-like process tools ▪ Reduces possibility of errors
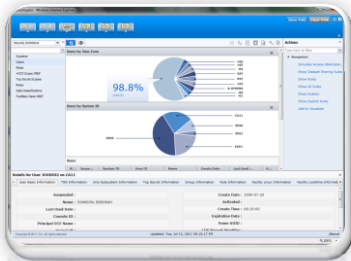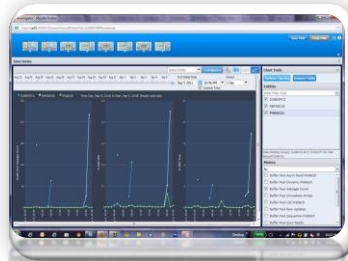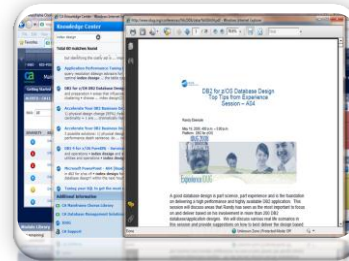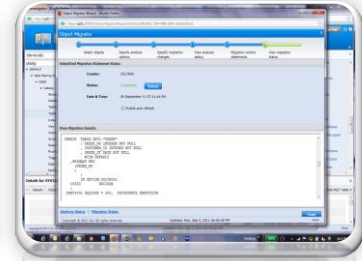
CA Chorus™ Infrastructure Management for Networks and Systems

Enterprise Health Monitoring →a policy driven consolidated view of many resources using color to depict status of those resources that are grouped via the policy.

System Resource Topology →Delivers enhanced graphics to identify relationships and status information.

Interactive Problem and Diagnostic Tools →capabilities combining normally disparate data into a cohesive diagnostic path, combined with status information and visual cues.

New System, Network , and Personalized Alert modules → delivers interactive and actionable alert capabilities.

Consolidated Performance Reporting →filtering, new graphs, and the ability to export data to external sources.

Investigator Quick-link Web Navigation →new, dynamic, and actionable from resource level displays.

enterprise health monitoring

Dashboards

- Simplifies problem identification, diagnosis, and resolution
- Improves productivity when navigating multiple systems
- Shareable – save as public so everyone can see
- New modules available for customization and personalization

Traffic lights

- **Policy driven** - consolidated views of many resources using color to depict status of those resources that are grouped via the policy.
- **Business views** – introduction of a new way to monitor the health of the mainframe IT infrastructure.
- **Custom built** – multiple types of resources
- **Shareable** – Build once use many times

Metric Panels

- New network, systems information
- Customizable User set thresholds, identify anomalies that can increase costs .

Enterprise Health Monitoring – Dashboards
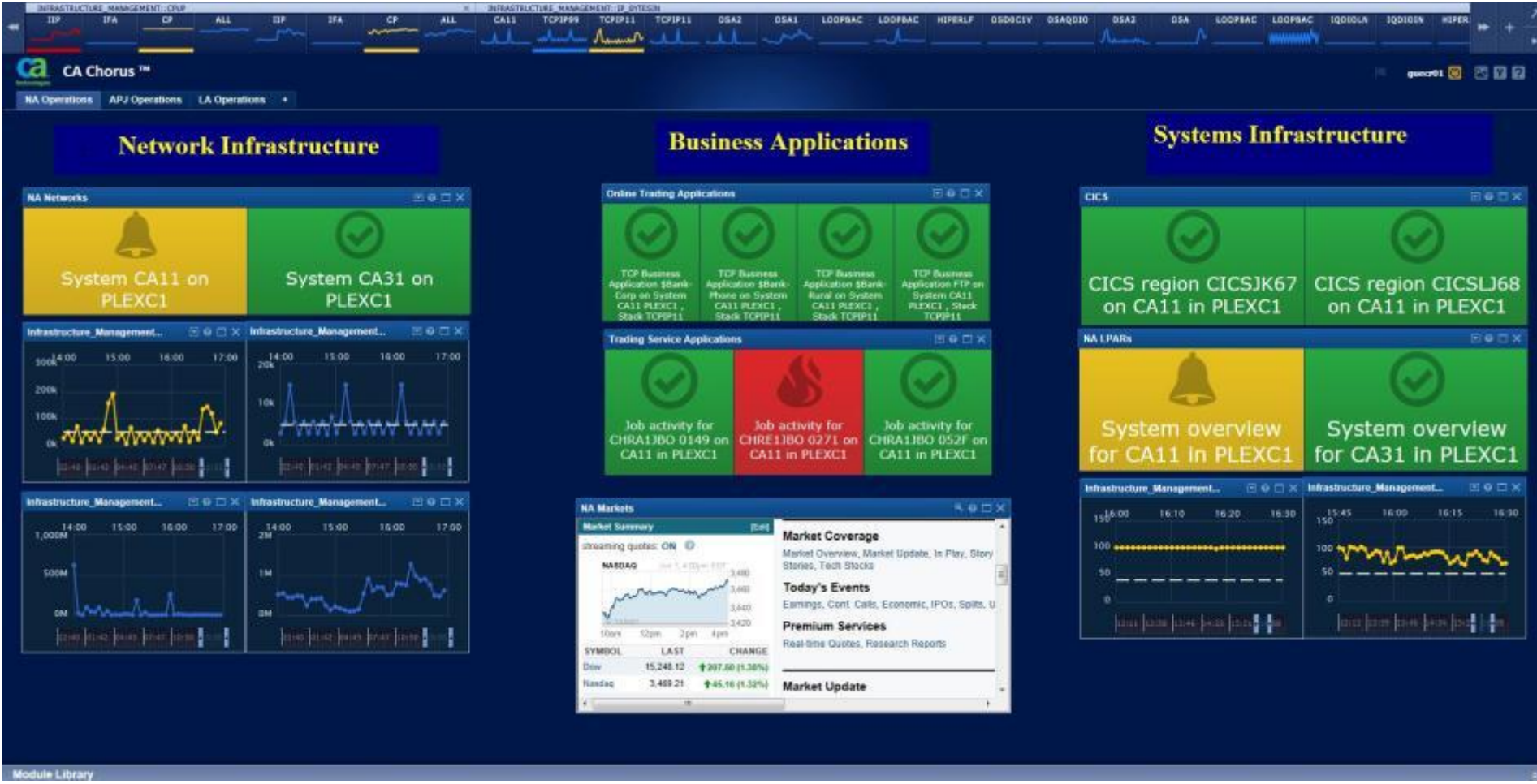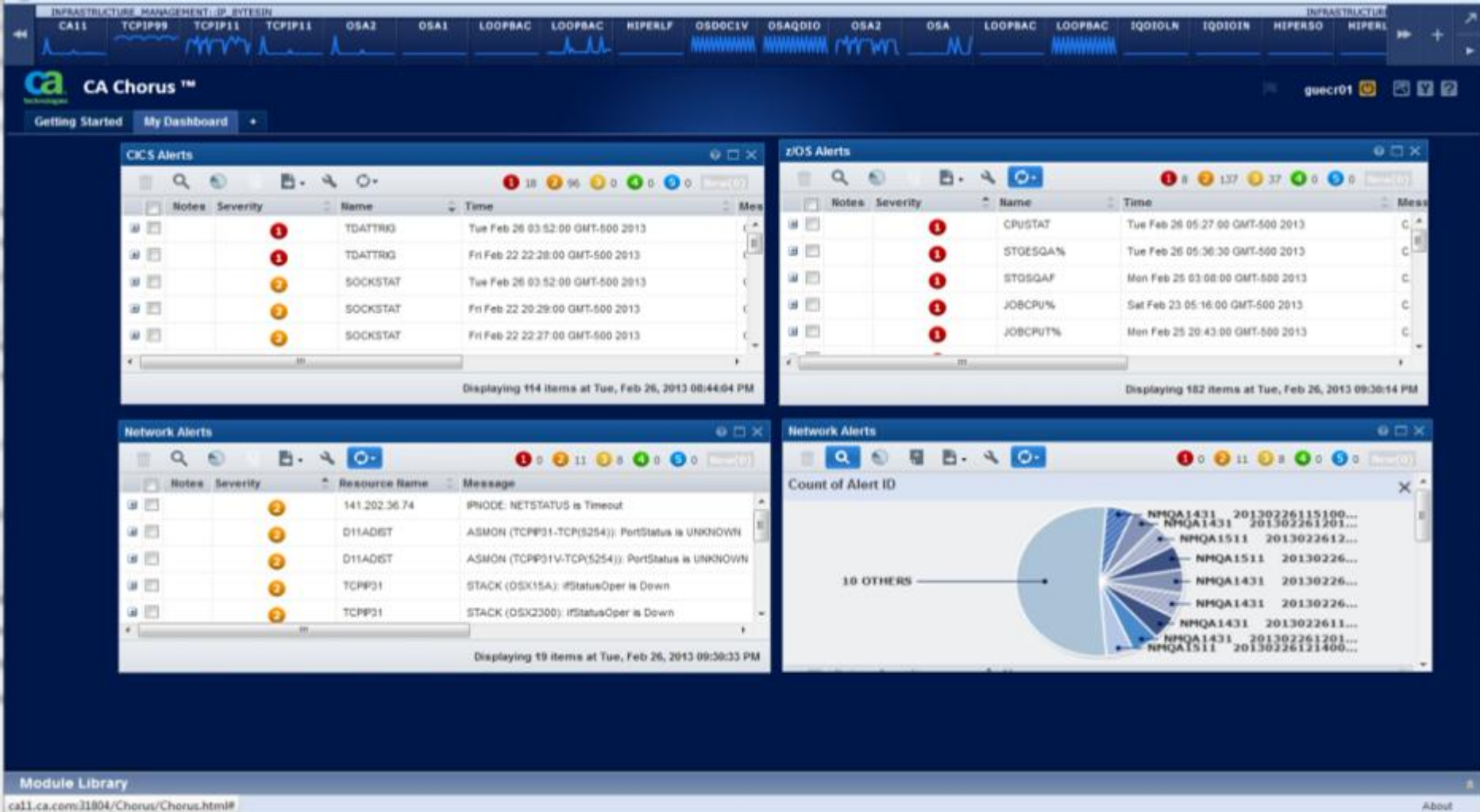
Enterprise Health Monitoring – Dashboards
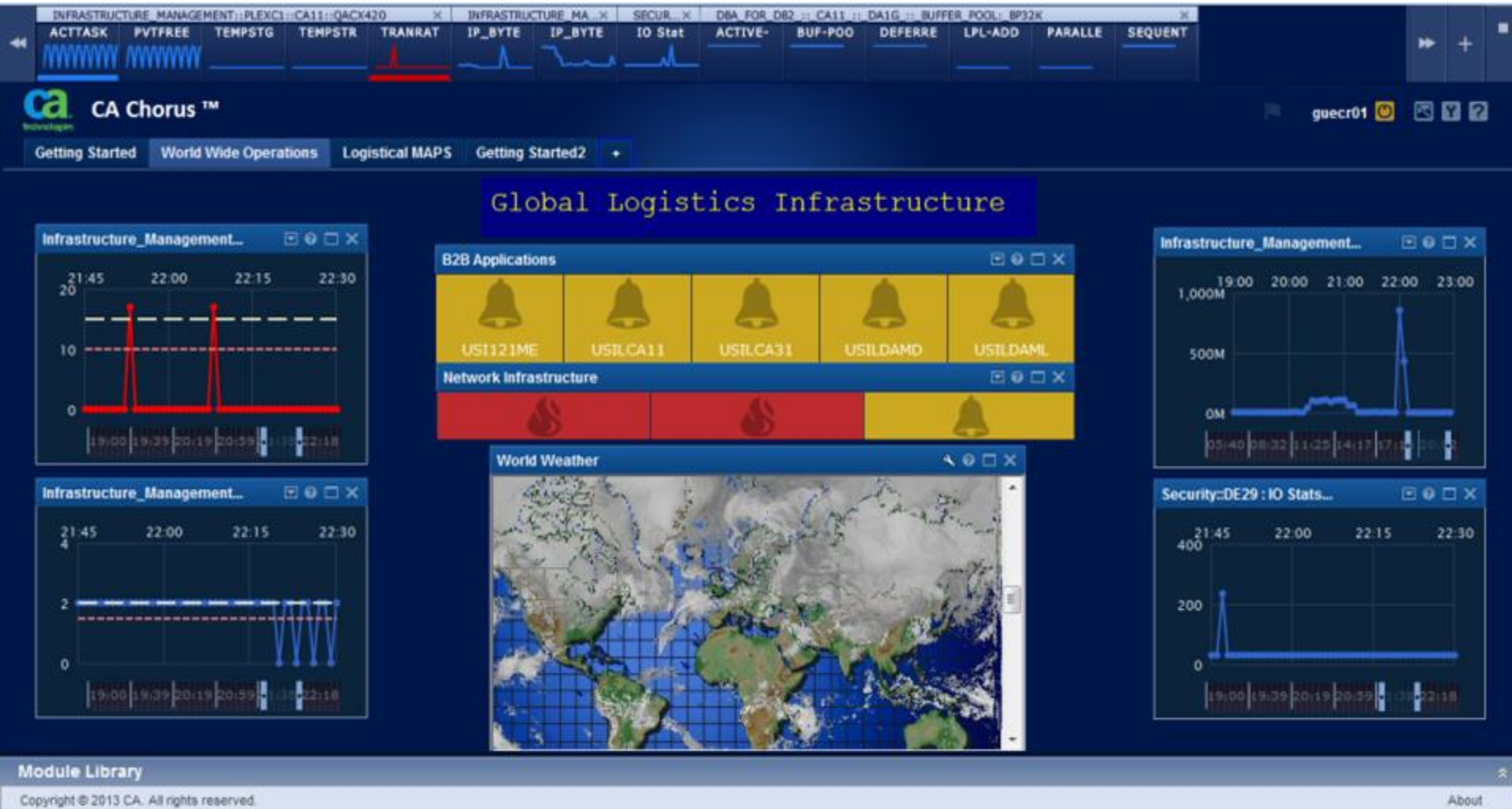
Targeted Alerts – what's important to you?

interactive problem and diagnostic tools

Investigator Module

- Primary starting point for investigating and diagnosing problems
- Designed to service network, system, and DB2 resource activities
- Simplified access to all information from external infrastructure engines
- Ability to save detailed analysis paths for use or training less experienced personal
- Intuitive investigator tree – lists system and network objects by categories
  - Across enterprise – Subsystems, networks, DB2, SYSPLEX, …..
  - Network performance
- Secure actionable Commands – visualization, operational

Time Series Integration

- Historical analysis.

Topology visualization

Interactive Problem and Diagnostic Tools

Open Systems Adapter(OSA) displays

Investigator – seamless integration systems and network

Interactive Problem and Diagnostic Tools

Topology

Time Series Facility
Real Time and Historical
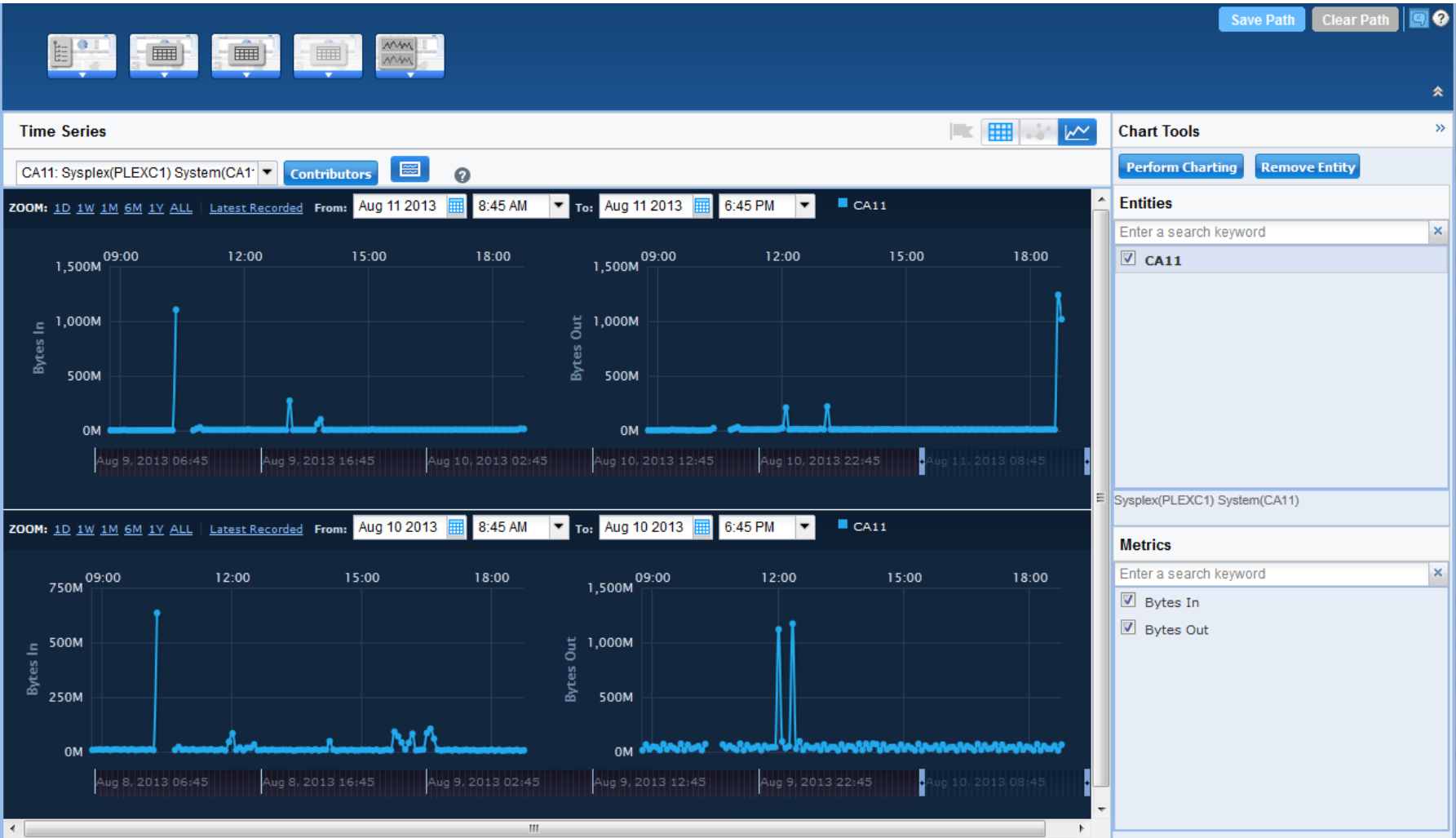
consolidated performance reporting and quick-link web navigation

## Consolidated Performance Reporting

- Filtering, new graphs, and the ability to export data to external sources
- Export data from visible tabular-columns to CSV file structures
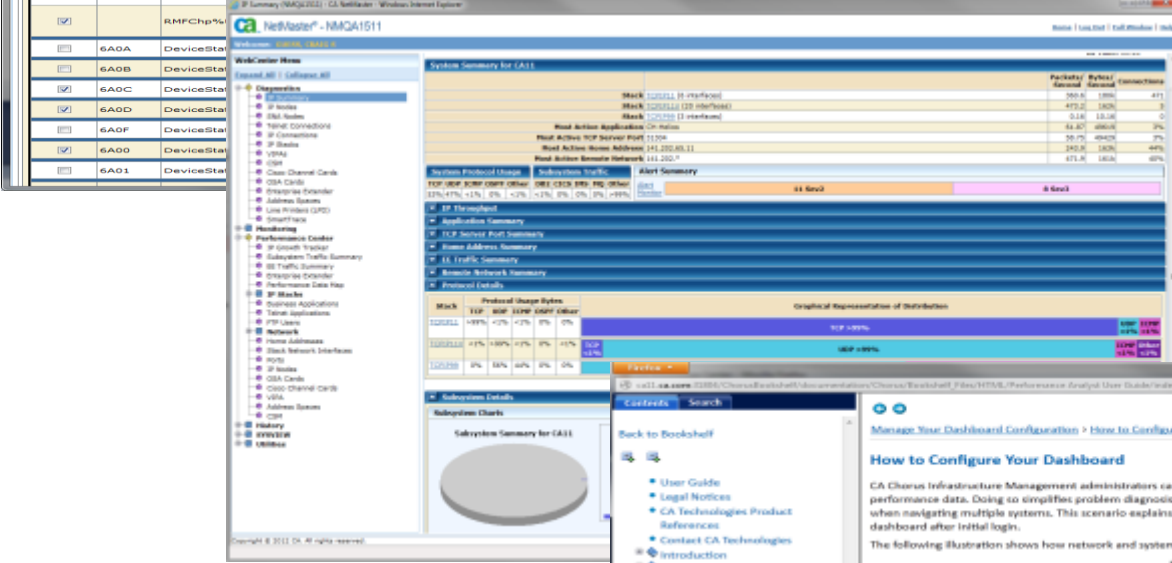- Generate Reports

Investigator QuickLink Web Navigation

- New, dynamic, and actionable from resource level displays.
- Create your own QuickLinks module to manage various tasks or house data
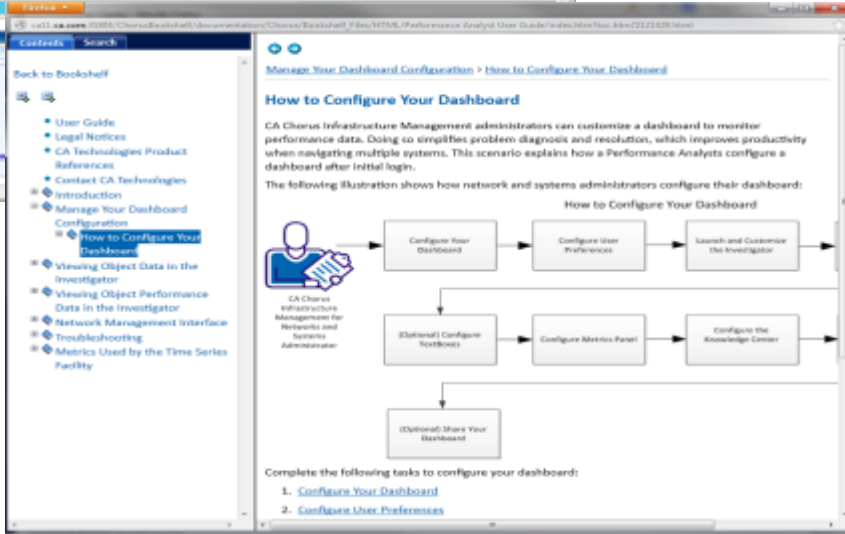- Web Application Module – add your own web application to dashboards.. Ex. Weather, News, etc

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integration – extending the power
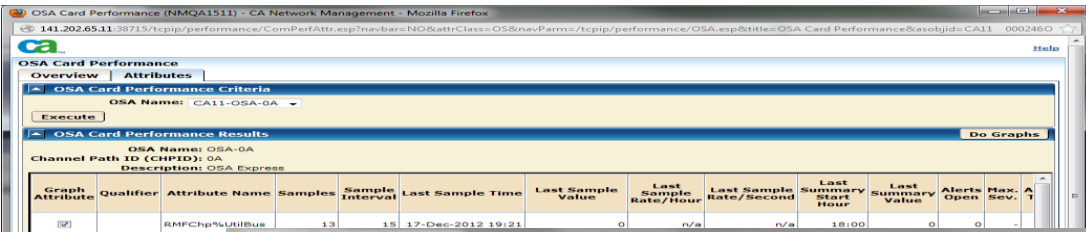
Deep analysis

Knowledge

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Questions?

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Thank you..

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