

Pulse2011



Advanced Dashboards & Visualization with TIP and Historical Reporting

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Agenda

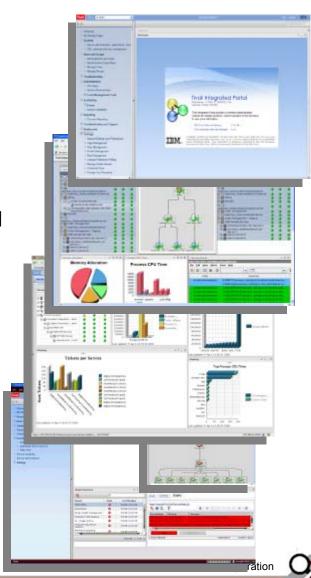
- ■Where are we today with TIP 2.1?
- •Future directions with TIP 2.2
- Tivoli Common Reporting





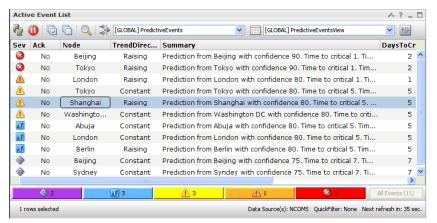
Tivoli Integrated Portal Mission Statement

- To provide a Web 2.0 integrated service management portal across multiple Tivoli products which supports:
 - Single sign on
 - A unified security model
 - A consistent look and feel
 - Serving up content from multiple Tivoli products integrated into interactive screens to support drill-down scenarios
 - Is highly customizable by systems-integrators, administrators and end users
- Eliminate siloed product consoles and the need to jump between multiple windows to perform service management tasks
- Supports multiple user personas, ranging from end users to service administrators



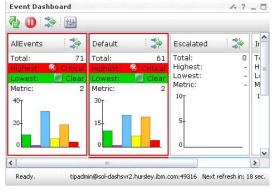


Adopting product example The Web GUI is more than just an Event List...

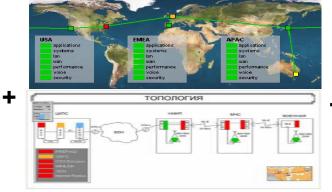


Active Event List (AEL)









Web GUI Maps

+ a dedicated XML based API for additional flexibility (WAAPI)





Web GUI Gauges





Enhanced visualization with Tivoli Netcool/OMNIbus WebGUI Focussed service views driven by event enrichment



Requires page building skills including application of style sheets



Tivoli Integrated Portal 2.1 Architecture and Overview

Tivoli Integrated Portal as a J2EE application

- Lays foundation for zOS and WAS ND support
- Capable of installing into an existing WAS infrastructure

Tivoli Integrated Portal Charts

 Introduction of Dojo as the Tivoli Integrated Portal charting component maintaining backward compatibility

Authorization Provider

 Uses Argus which provides Single sign-on, Single sign-off, Identity federation, Policy-based assurance level, Validation against various PKI and LDAP systems, & Flexibility

Install Improvements

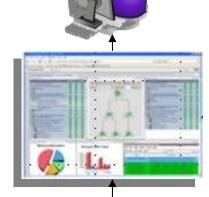
- Installs are modular and faster

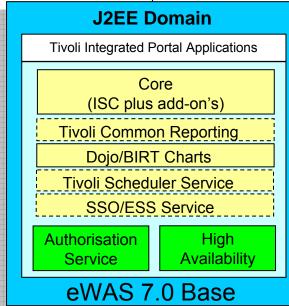
Cross IBM integration

Uses Naming and Reconciliation service and iWidget support

Improved staging to production capabilities

Granular steps for customers to move from staging to production

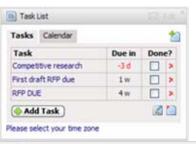






What is a Widget?

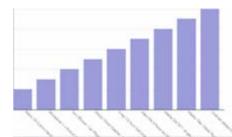
- A widget is a small program or piece of dynamic content that can be easily placed into a web site.
- Widgets are called different names by different vendors: gadgets, blocks, flakes.
- Widgets can be written in any language (Java™, .NET, PHP, etc.) and can be as simple as an HTML fragment.
- Widgets can be non-visual.
- · Widgets often encapsulate an API.
- "Mashable" widgets pass events, so that they can be wired together to create something new.





- G Google News (5)
- · US Intelligence Agencies Say Iraq's Leaders Failing (Update3) Bloomberg
- . Sudan Tells EU, Canadian Envoys to Leave the Country Deutsche Welle
- . Sharif best known for N-tests, losing power in coup Zee News
- . Bush told he has drawn wrong lesson Sydney Morning Herald
- · Purdue Settles Over Electrocuted Student Washington Post





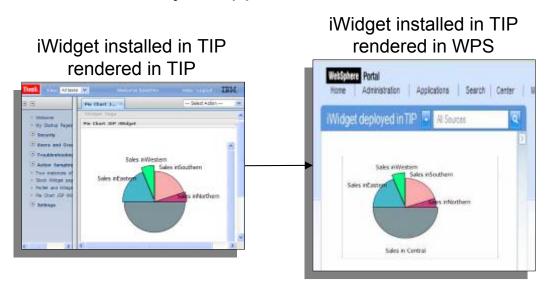






iWidget Support

- Tivoli Integrated Portal 2.1 provide support for iWidgets written to iWidget spec 1.0
 - Provides cross IBM Integration
 - integration with WP, Mashup Maker, BPM and all other Portals that support iWidget spec
 - Reusability of application

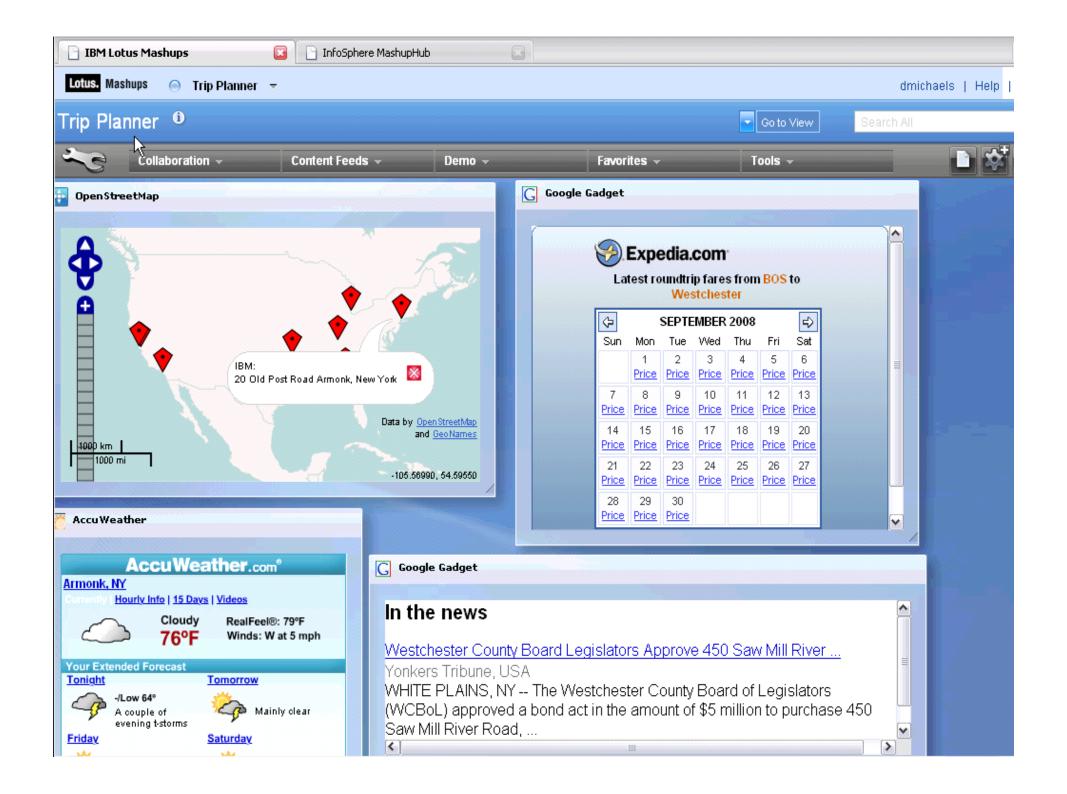




- Future plan to provide richer iWidget user experience
 - This includes framework interactions like launch pages, Credential service

iWidget Primer: http://www-10.lotus.com/ldd/mashupswiki.nsf/dx/iwidget-primer-v1.0.pdf/\$file/iwidget-primer-v1.0.pdf





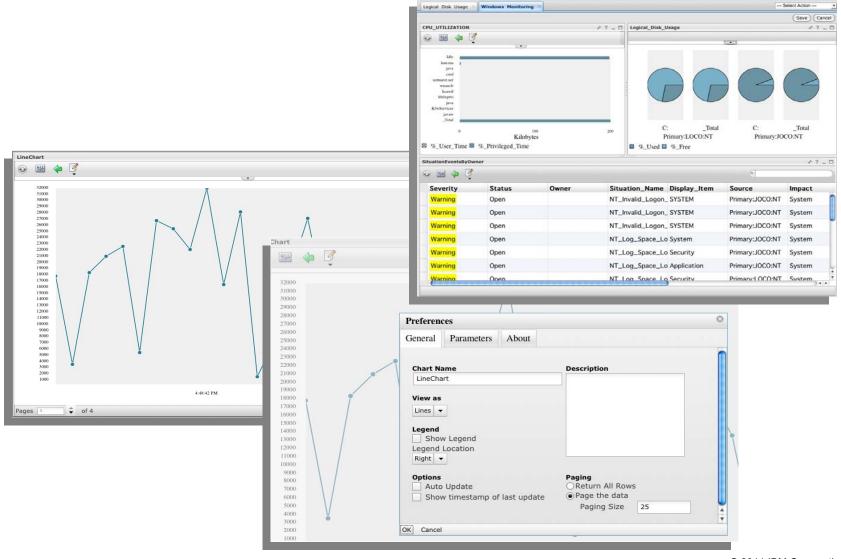


ISC/TIP running some simple iWidgets from Lotus





Dojo Charting

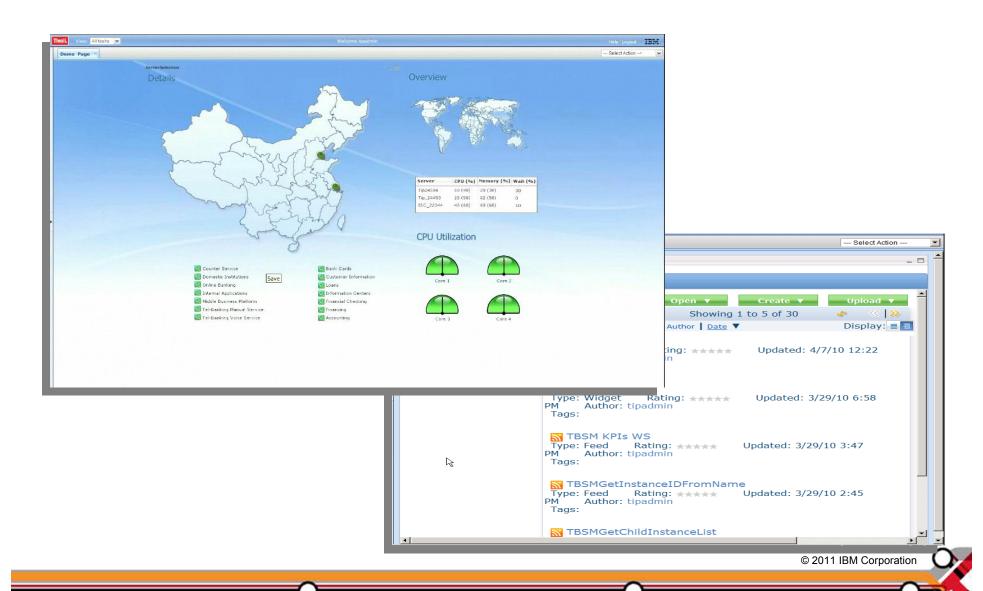




TIP 2.2



TIP 2.2 Self-Service Dashboard





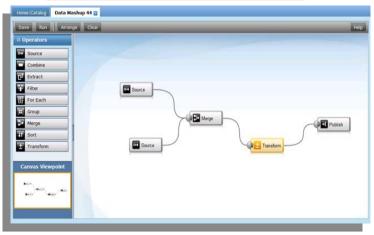
What are mash-ups?

Ul Mash-ups



- Drag and drop widgets from multiple products and datasets onto the same page providing an aggregated view
- Interact and drive context changes across widgets
 - Clicking on a resource in one widget can cause the other widgets on the page to update to show information about the selected resource

Data Mash-ups



- Combine data from multiple products, 3rd party vendors, or custom sources into a single data feed to view in a single widget
- Manipulate, transform, and derive new metrics
 - Basic mathematical functions
 - String manipulation & parsing





TIP 2.2 Self-Service Dashboard (cont.)

Dashboard Creation

- Drag and Drop dashboard creation
- -Free Form Page Layout
- -Portlet and iWidgets communicate
- -Customisation of Look and Feel (logos, titles, colours
- –iWidgets including gauges, charts, status, and topology
- -iWidget and Portlet Catalogs for simplified content selection

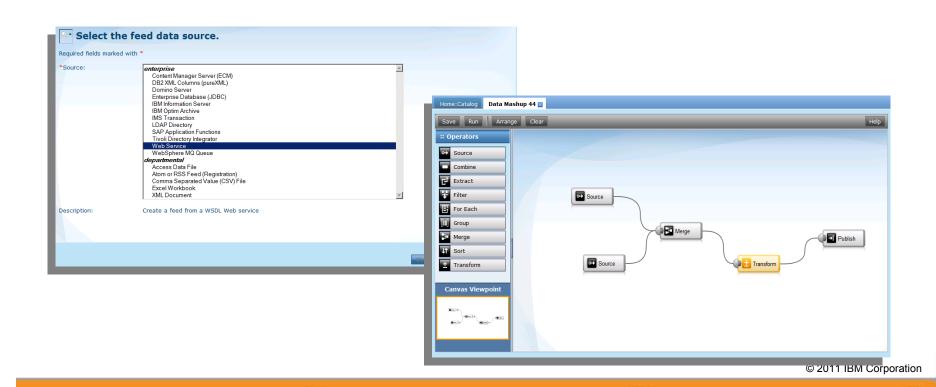




Future TIP 2.2 Capabilities

Data Feeds and Data Mash-ups

- Data Mash-up from multiple data sources
- Data Feed and Data Mash-up Catalogs to support simplified widget creation
- -SWG and BPM Data, Widgets, and Integration





Self Service Dashboard Themes

Build UI Mash-ups in TIP

- Build custom dashboard pages
- Drag & drop and resize widgets
- Search & reuse widgets from a catalog
- Stack, overlap and make widgets transparent



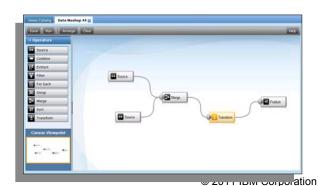


Create reusable widgets

- Widget builder wizard to create new widget instances
- Define and customize out of the box widgets
- Visualize with data from any data source
- Store widgets in custom catalogs
- Secure access to widgets with role based security

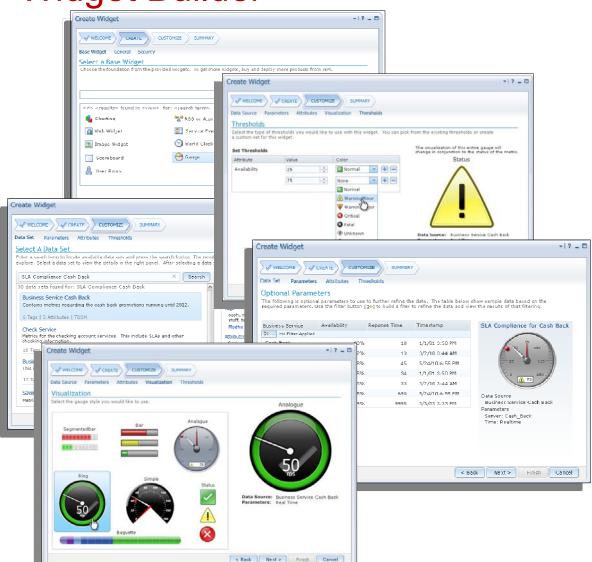
Mash-up your data

- Combine, merge and transform Tivoli data and 3rd party data in the InfoSphere MashupHub*
- Custom Tivoli data source makes it easy to access Tivoli data
- Use mash'ed up data in widgets in TIP or Mashup Centre





Widget Builder

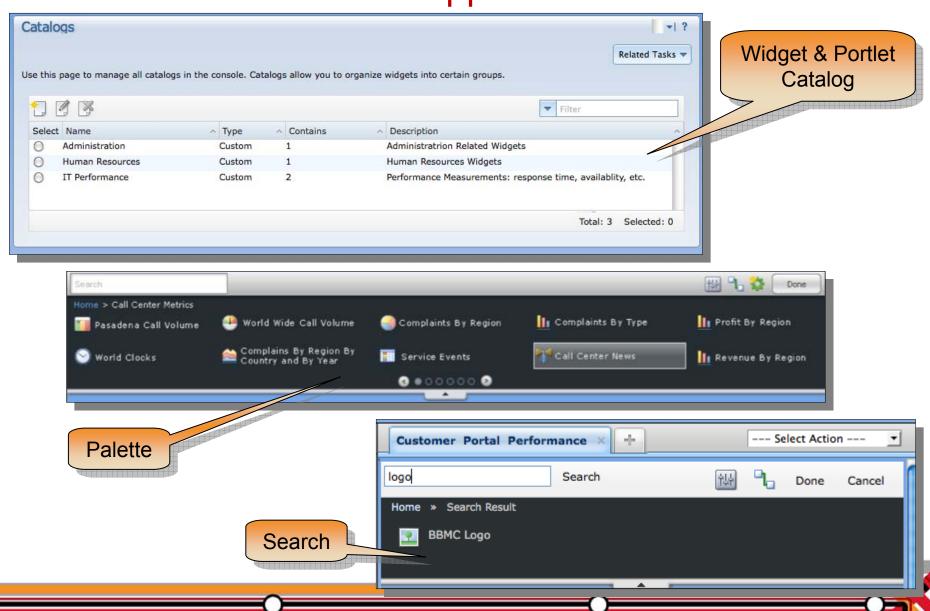


- Create new widget instance from many different widget types
- Save widget to custom configured catalogs for reuse
- Role based security of widgets
- Search data, resources, metrics, custom tags
- Filter and live preview data
- Create rules to filter down to the data you want
- Define custom thresholds and colours

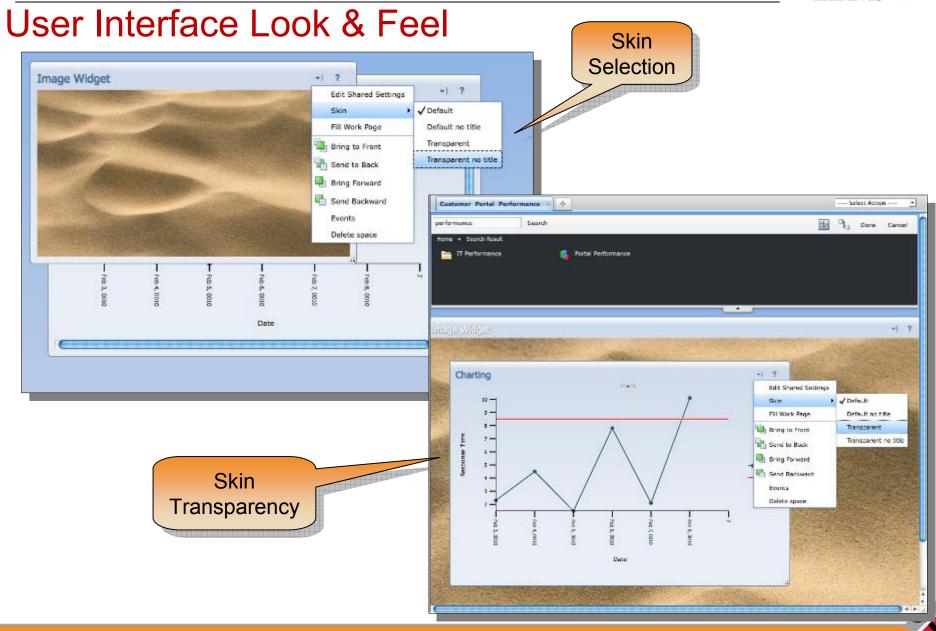




Dashboard Construction Support Mechanisms









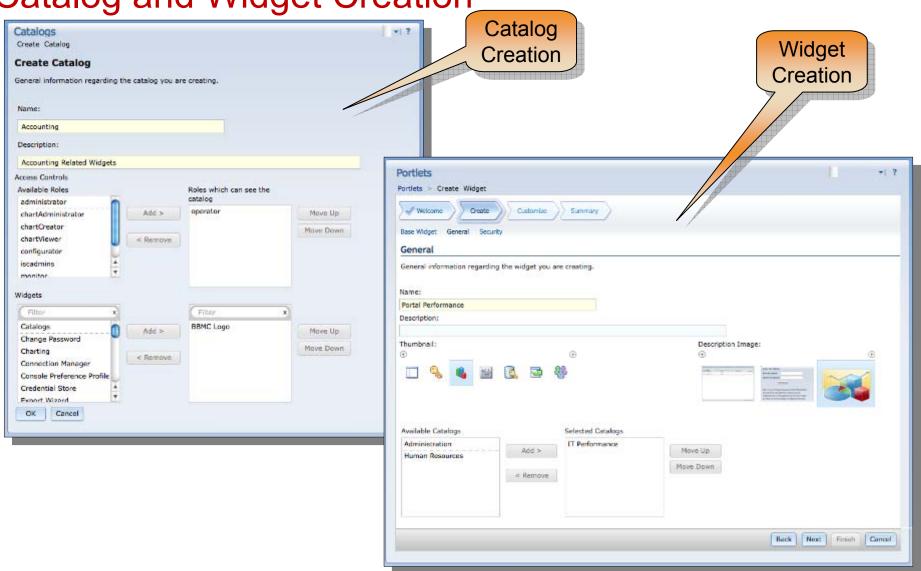
'Out of the Box' Set of Gauges

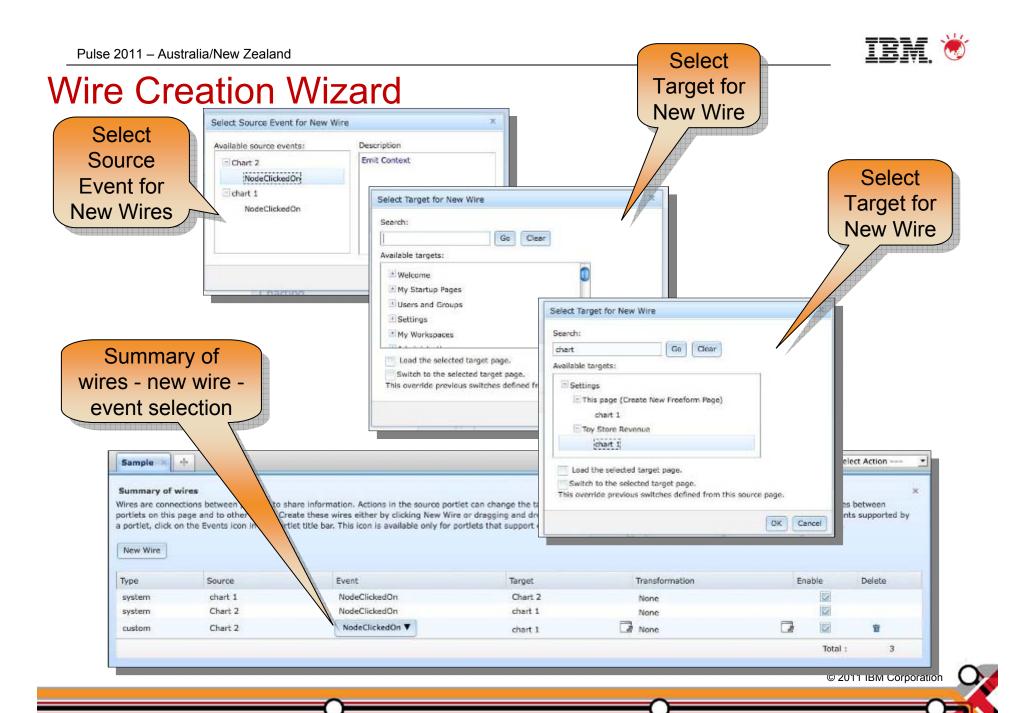




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Catalog and Widget Creation







Portlet Icon and Name





Drag and drop onto a page

Description image and text on-hover state

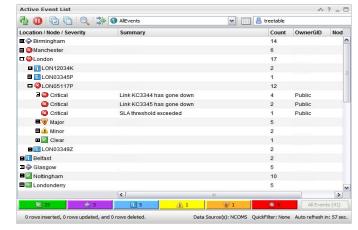


Adopting product

Coming sooner rather than later...the Next Generation Web GUI

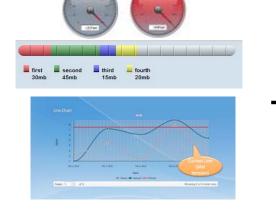
- · Increased serviceability, no Java plug-in required
- Introduce never seen before features
- Initially a full replacement for the LEL
- Eventually completely replace the need for AEL
- iWidget enabled, re-use in other products





Tree table views / Hierarchical navigation

Next Generation Event List...phased release...



Widget Gallery & TIP Charts



Self Service Dashboard (Map replacement)

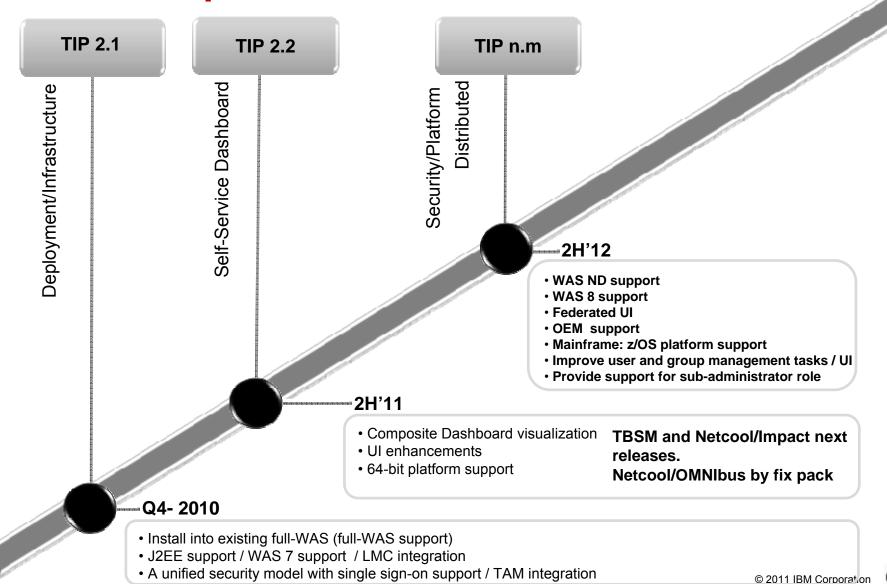


Multiple Platforms
(HTML / non-app strategy

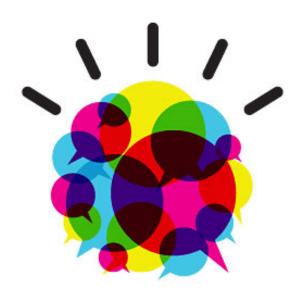


TIP Roadmap*

* Roadmap is subject to change, based on the needs of customers/business







Questions?



Tivoli Common Reporting

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Tivoli Common Reporting - Mission Statement

- Provide a solution which converges around an incredibly simple launch point for reports, where users can see what is available and use it with no training
- Provide an effective way to deliver and share reports and reporting ideas, and find the set of content that gives the greatest value
- Focus the individual reports on quality of information and value, not on the quantity of reports available
- Provide consistency of the content and enable linkage between reports for best analysis flow, even if they cross individual product boundaries



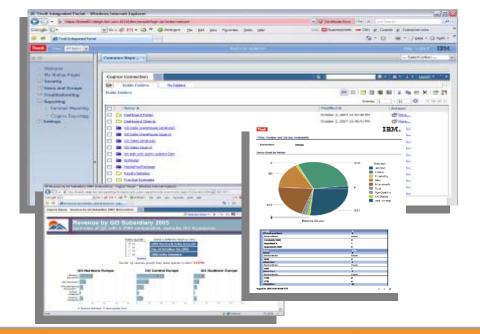


Tivoli Common Reporting moving forward

- Cognos 8.4 Bl Reporting technology added to TCR
 - Includes UI to administer reports and edit reports
 - Enables cross-domain analytics and reporting
- Brings industry leading reporting suite to Tivoli customers at no additional charge

- License restricts usage to reporting on "Tivoli data" or "Tivoli data" in combination with

non-Tivoli data





Facts

- TCR comes at no extra cost with adopting Tivoli products
- TCR is not the same as Cognos, e.g., is not
 - -Cognos Lite
 - -Cognos Express
 - -Etc.
- The Cognos reporting engine is a modified version
- Entitlement to TCR, does not come with entitlement to full Cognos
- The inclusion of Cognos technology is as a sub component of TCR itself
- License restricts usage to reporting on "Tivoli data" or "Tivoli data" in combination with non-Tivoli data





Tivoli Common Reporting Focus

- Extend the Usability and Consumability of current TCR reports and reporting tools
 - Simplified interfaces and interactions for report writers to create, customize,
 and publish reports let's you build reports faster and easier
 - Extend the level of cross-product report linkage for seamless flow between related reports, blurring the boundaries among Tivoli products
 - Enable report end-users to create and save ad-hoc reports, without the need for a report writer's involvement
 - Integration of BIRT-based and Cognos-based reporting within TCR
 - The continued adoption of TCR across the Tivoli portfolio
 - Drive for new out-of-the-box reports for products in all areas Maximo,
 Storage, Security, Service Availability and Performance Management,
 Service Delivery and Process Automation





Value that TCR/Cognos brings to Tivoli customers

1. Simplified report editing

- Launch web-based Report Studio in context from a report
 - You can run an out-of-the-box report, like an ITM report, and launch the editor in context to change something.

2. Ad-Hoc Reporting

- Create ad-hoc, on the fly reports
- Even novice users will be able to rapidly create reports with intuitive drag & drop function via the Query Studio, allowing for greater report usage with little training

3. Other capabilities

- Automatic emailing of reports
- Additional report formats
 - XML
 - Excel 2000 & 2000 Single Sheet, 2002, and 2007
 - CSV
- Granular data security (row-level authorization)



Value Proposition

- Consistency in reporting with other Tivoli products
- Provides the basis of end-to-end reporting for Tivoli
 - Allowing report data correlation with other Tivoli product data and business data (e.g. asset management, financial planning etc)
 - Including longer term goal of single reports using data from multiple Tivoli Products
- Provide ad-hoc reporting capabilities
- Standard architecture (TIP/eWAS)
- Allowing customers access (via upgrade) to Cognos advanced analytics modules for advanced reporting capabilities never possible before
 - Will be able to drill down, slice and dice to see what is driving client's business
 - What if Analysis
 - Trend Analysis and Forecasting



TCR 1.1/1.2 to TCR 2.1 Upgrade Key Points

- Existing TCR customer <u>have a smooth upgrade</u> to the new Cognos Based TCR 2.1
- The current time and effort you have invested in TCR 1.1 or 1.2 based reports <u>are not wasted</u> with the new TCR solution
- BIRT based reports <u>continue to be usable</u> in the new system
 - -If you want to keep using your old reports, or edit them, etc., you will have no worries at all







Tivoli Common Reporting 2.1 Components

Query Studio (web-based)

- Intuitive, self-service "ad hoc" reporting
- Drag and drop
- Easy sorting and filtering
- Save, edit, and share

Report Studio (web-based)

- Create and edit more advanced reports
- Query Studio functions plus
 - Parameterization
 - Globalization
 - Advanced query manipulation
 - Additional chart types (e.g., maps, gauges)

Framework Manager

- Common infrastructure
- Plug-and-play
- Common security, metadata, administration, and portal
- Ability to adapt deployment as infrastructure changes

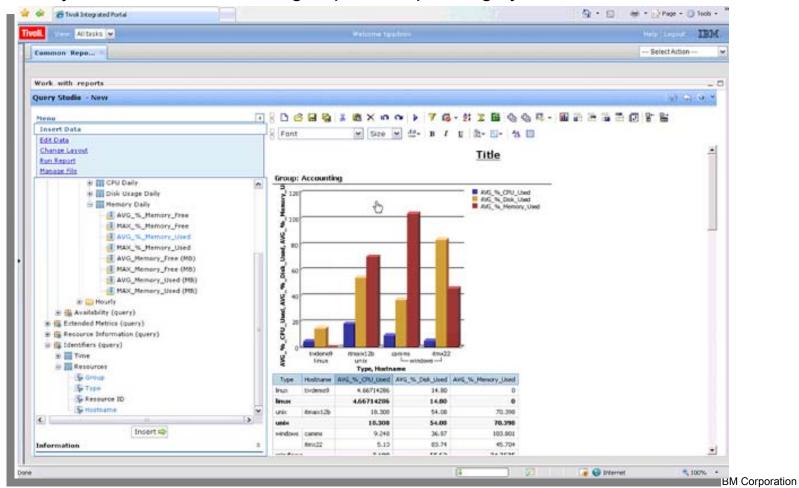


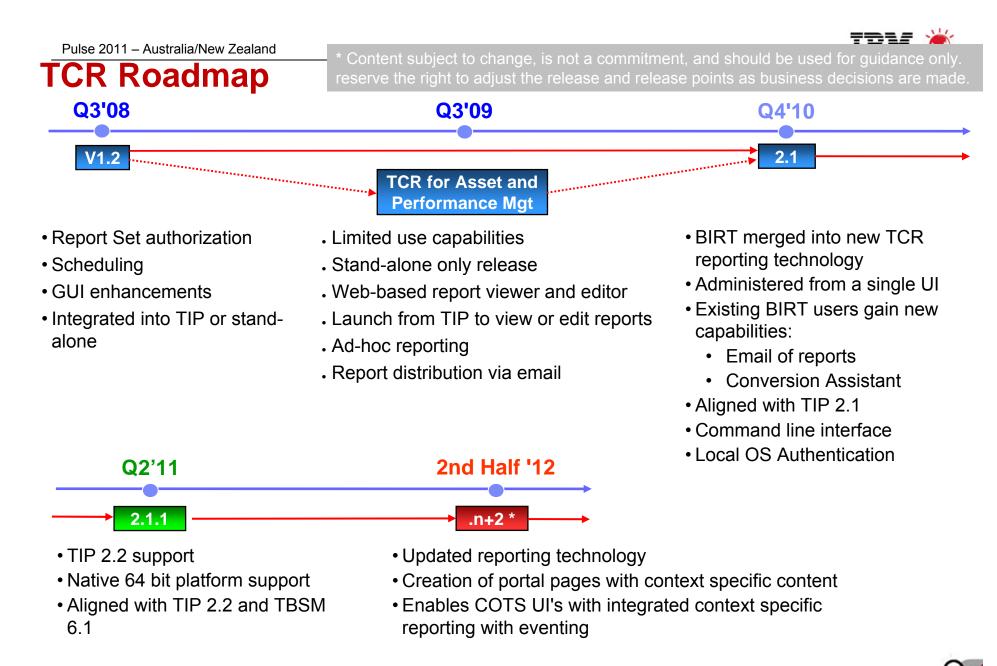




One Minute Reporting

- Uses TCR-Cognos to create a new ITM report in under 60 seconds
- Drag and drop of key metrics such as memory, disk and CPU utilization
- Organized by user defined business groups and operating system





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Tivoli Common Reporting – Community News

Follow TCR news and interact with other users at

http://www.ibm.com/developerworks/spaces/tcr

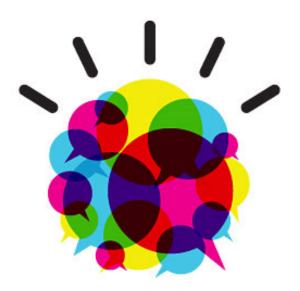
(or use your search engine to find: Tivoli Common Reporting)

- Catalog of reports to download
- Tips and techniques
- Forums for general and specific help
- Sample style guide for consistent report layout



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