

**Tivoli.** software

# ITM Review

A Look at ITM 6.2.3 FP1

And  
ITM 6.3



# Agenda

## ITM 6.2.3 FP1

Future Version ITM 6.3




## 2011 & 2012 Infrastructure Monitoring Priorities

- Reduced TCO
  - Minimize infrastructure maintenance time and effort
  - Lower the cost of deployment
  - Reduce dedicated hardware requirements
- Analytics
  - Increased confidence in capacity analytics
  - Improved warehouse scale
- Improved performance in dynamic environments
  - Product integration
  - Scale



## 6.2.3 FP1



**Available  
March 9, 2012**

### **Reduce operating costs:**

- ✓ Improve and expand usage of the Self Describing Agents delivered in 6.2.3
  - ✓ SDA simplifies agent install and upgrades scenarios with a single touch install that does not need infrastructure recycles
  - ✓ IF1 will allow SDA exploitation also for customers using Hot Standby
  - ✓ Seamless support also for OMEGAMON for CICS 5.10 and it's HTEMS persistent tables
  - ✓ Additional logging on z system console for OMEGAMON users (WTO)
- ✓ Consolidate agents
  - ✓ Monitor AIX with only 1 agent, merging into the Unix OS agent the AIX Premium agent
  - ✓ Replace custom built agents by expanding OS agent log monitoring reach to any Windows OS Event logs

### **Improve Product quality:**

- ✓ Improve reliability of Proxy Agent Services (Agent Watchdog) component
- ✓ Improve general code quality moving SVT in the scrums and focusing on SVT automation
  - ✓ All APAR/PMR metrics continue to improve as product maturity grows
- ✓ Uplift componentry including Java version to 1.6

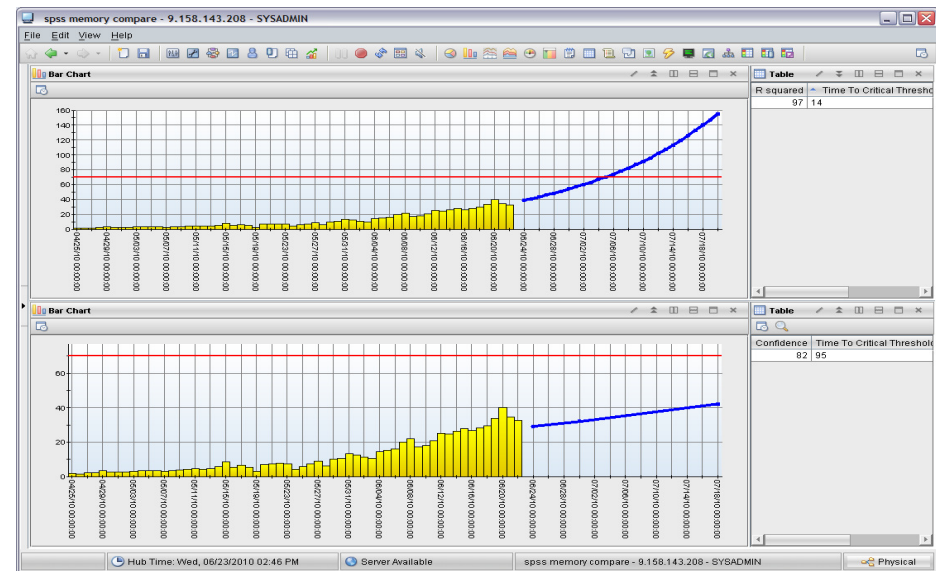


## 6.2.3 FP1

### Customer/Consumer Commits:

- ✓ Simplify infrastructure by loading the Tivoli Data Warehouse directly from the autonomous agents
- ✓ Increase communication security by sending secure events (SSL) from light autonomous agents to OMNIBus
- ✓ Simplify install and upgrades by improving install for read only directories
- ✓ Expand i5 OS agent visibility by monitoring date creation for dataset members
- ✓ Simplify CICS monitoring adding capability to display CICSplex views in TEP (OMEGAMON)
- ✓ Secure z/OS operations with granular security for execution of commands from TEP on z/OS resources (OMEGAMON)
- ✓ Added capability for SAP agent to check connection to SAP server during install

### Allow more reliable predictions extending ITPA from linear to non linear trending with the integration with SPSS



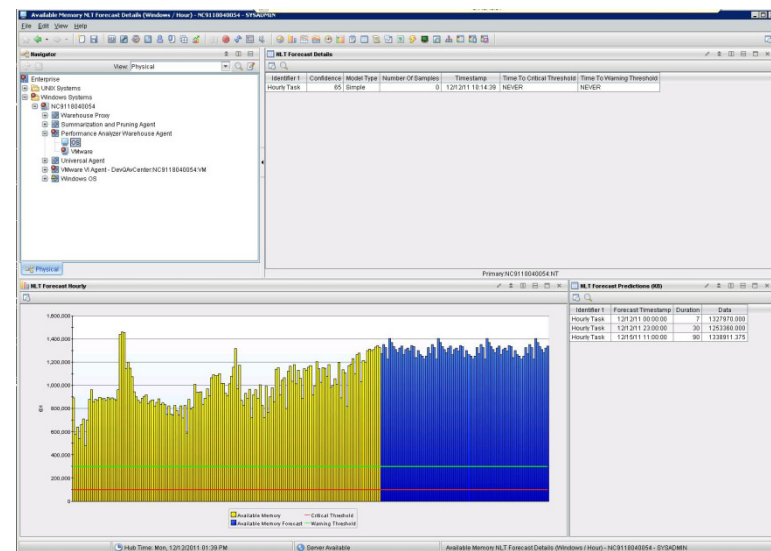
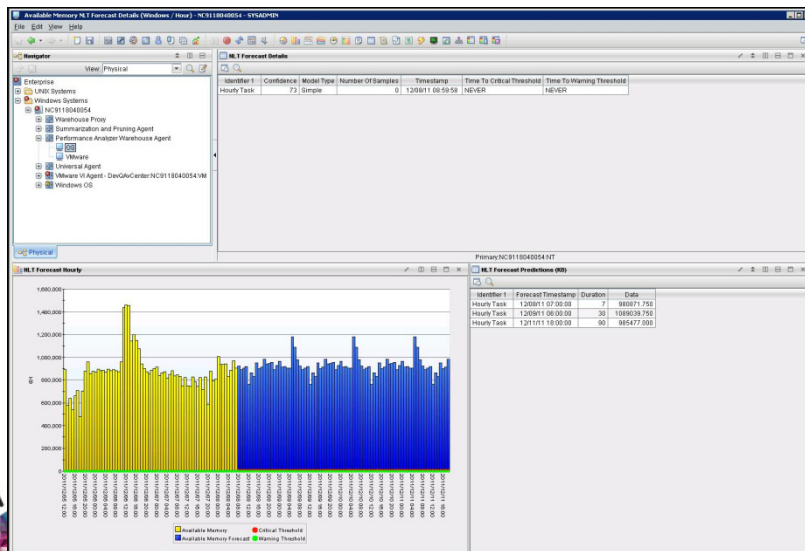
## Unix/System P Merge Details

- To fully monitor IBM AIX on POWER, both the AIX Premium Agent (“System P”, “kpx”) as well as the UNIX OS Agent have been required.
- Staged convergence plan moving metrics in a priority order, phased in over multiple releases of the UNIX OS Agent.
  - 131 metrics incorporated in 6.2.3 Fixpack 1
    - Logical Partition
    - AMS Pool
    - Devices
    - WPAR Information
    - WPAR CPU
    - WPAR Physical Memory
    - WPAR Network
    - WPAR File System



# ITPA Non-Linear Trending in 6.2.3 FP1

- A new analytical module
  - For Non-Linear Trending (NLT)
  - With SPSS Statistics Server (*Forecast module*) version 20 as a **pre-requisite**
  - *Optional* module without which other analytical modules would work as is
- Out-of-box NLT Support for OS Domain
  - NLT tasks
  - Workspaces for non linear trend analysis
  - Situations based on non linear trend
- What is not?
  - No new reports!
  - No NLT support for other domains (DB2, P, VMware, Oracle, RT)
    - Custom tasks and workspaces can be created for other domains



# Agenda

ITM 6.2.3 FP1

**Future Version ITM 6.3**

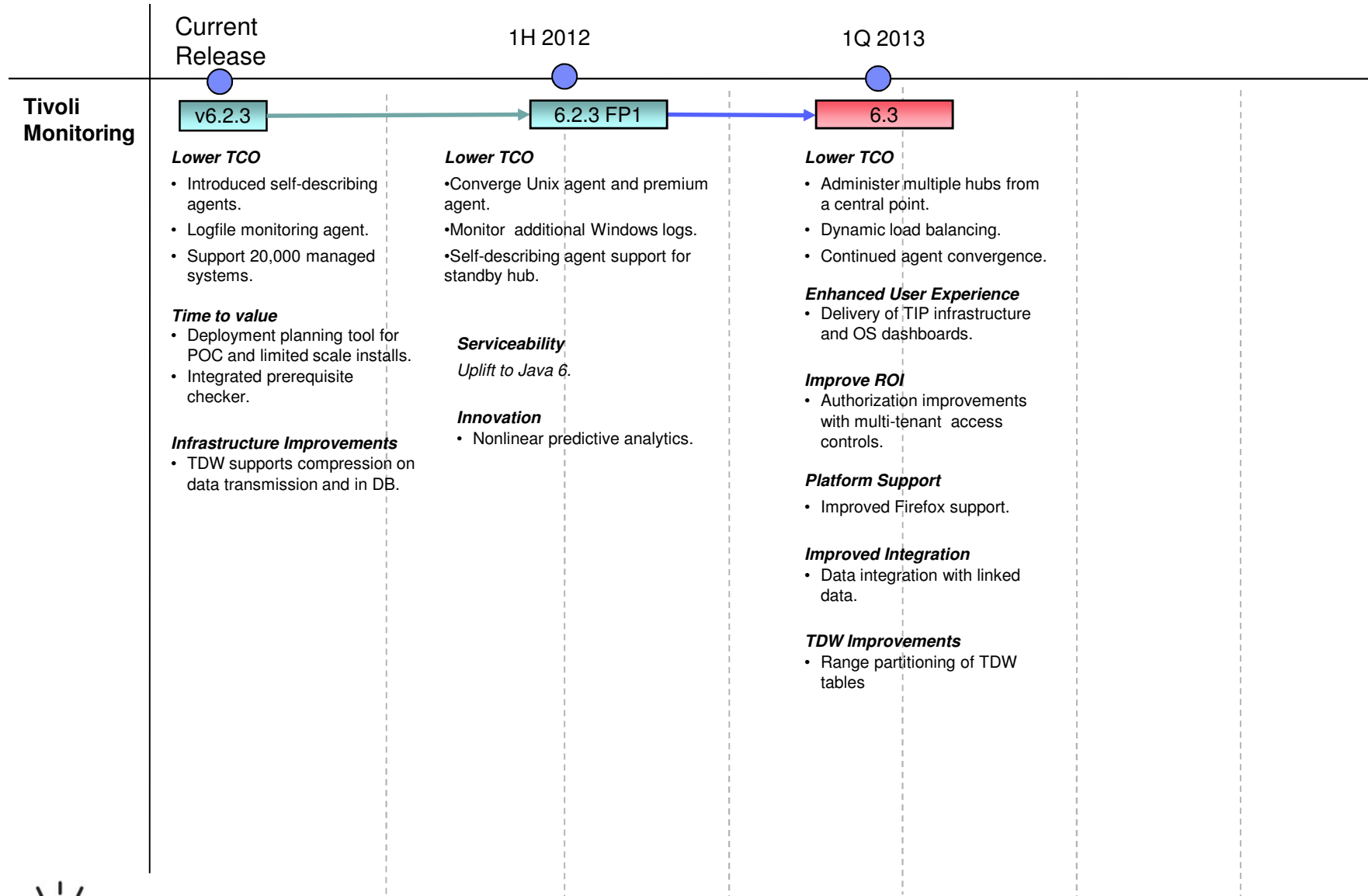




The information on the new product is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information on the new product is for informational purposes only and may not be incorporated into any contract. The information on the new product is not a commitment, promise, or legal obligation to deliver any material, code or functionality. The development, release, and timing of any features or functionality described for our products remains at our sole discretion.



# Tivoli Monitoring Roadmap





## Single point of administration for multi-HUB environments

- Background
  - ▶ At present, users with multiple ITM deployments must administer each one separately. We have tacmds that facilitate the movement of most data, but there is no built-in way to centrally automate and control configuration across multiple domains.
  
- Solution
  - ▶ Introduce a Multi-domain Manager (MDM) component
    - Provide a central repository for global configuration settings
    - Provide for the generalization of single HUB configuration controls to multiple HUBs, e.g. allow a single Managed System Group definition to contain managed systems from multiple HUBs.
    - Allow users to promote configuration from some existing domain into the MDM with the intent that it be globally common or that it apply to some subset of domains.



## MDM-managed artifacts

- Configuration Items
  - Situation definitions
  - Situation Groups
  - MSLs
  - Distribution lists
  - Event Servers
  - Situation Override data
  - Event mappings
  - Historical Collection definitions



## Role Based Access Controls

### First multi-tenant step

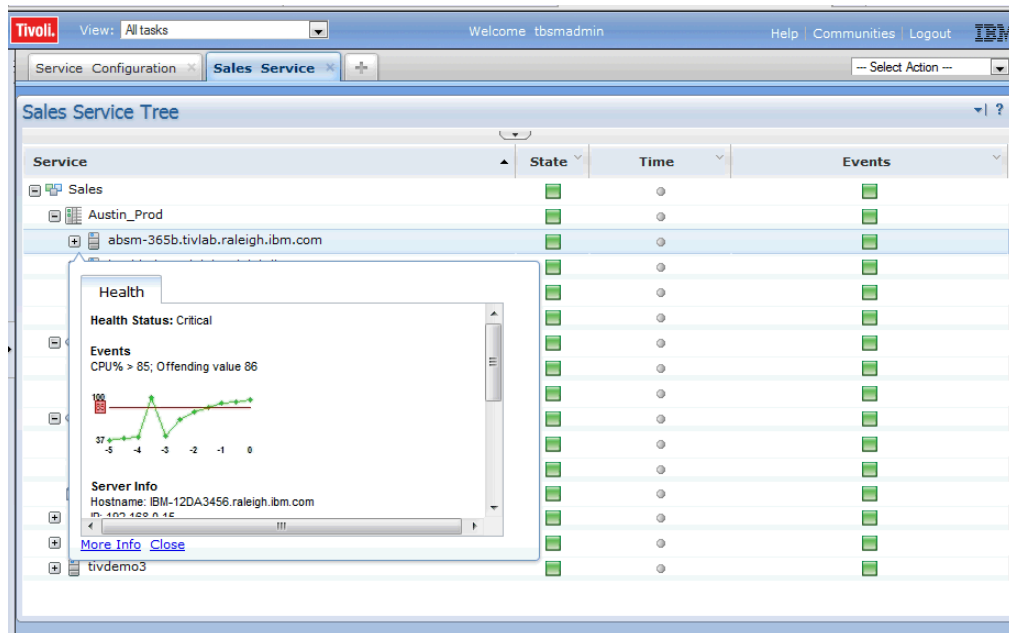
- Full RBAC Global Policy Editor and Authorization framework implemented in TIP
  - ✓ Export per-target policy at TIP level.
  - ✓ Flattened Local Policy imported from global policy evaluates quickly.
- Global policy in terms of Roles and Groups
  - ✓ Exported and flattened to user, operation, object.
  - ✓ Policies can be local, these **always** assume the target is local.
  - ✓ Policy is in XML:  
`<TakeAction:Invoke>rm -rf / </TakeAction:Invoke>`
- Authorization and evaluation only at the target
  - ✓ Take action  
Only on agent unless TEMS is target.
  - ✓ Situations  
Authorization to create a situation against TEMS.  
Separate authorization to distribute to an agent.

Define globally, evaluate locally...at the target only



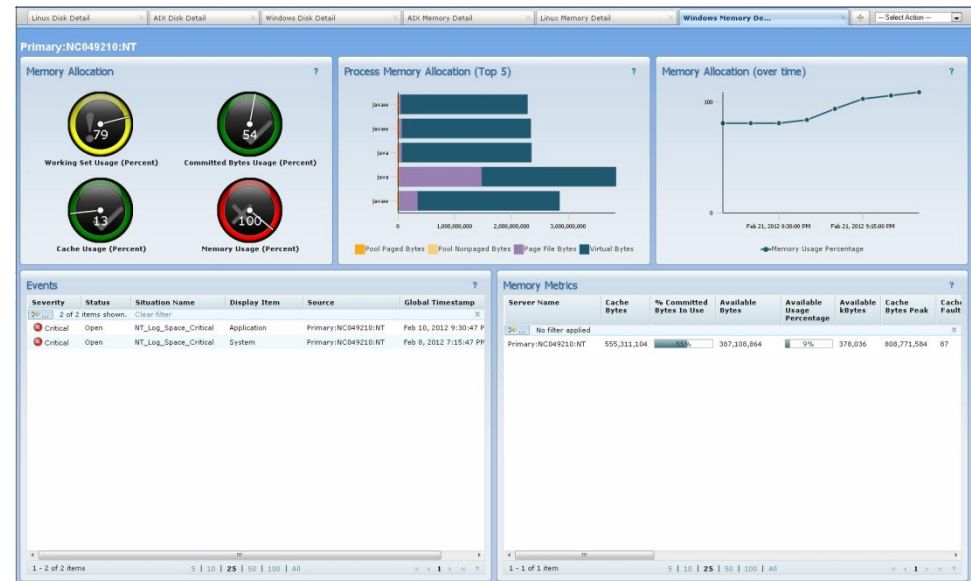
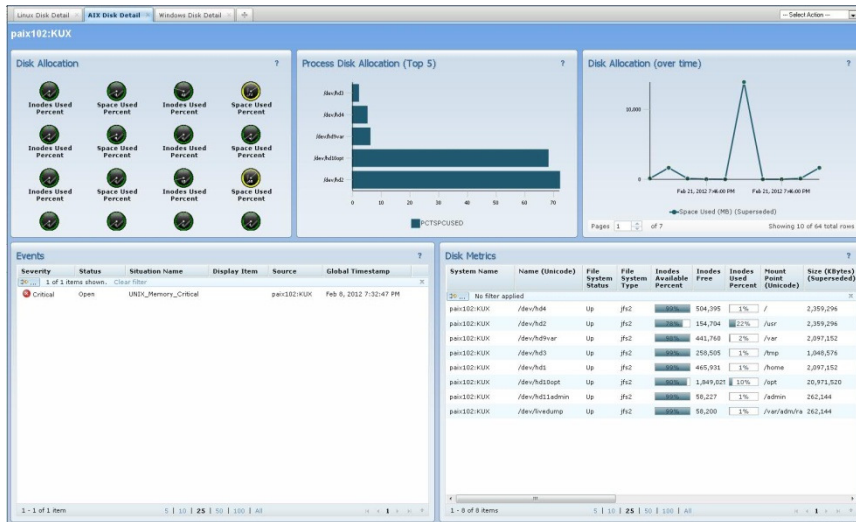
## Open Services for Lifecycle Collaboration (OSLC)

- OSLC is an open community creating specifications for integrating tools
  - ✓ OSLC is based on the W3C Linked Data.
- OSLC Helps Address the Following
  - ✓ Integration of our products is challenging from a setup perspective and of limited scope.
  - ✓ Integration of our products requires customers to manage our interface version matrix
  - ✓ There's no way to visualize additional data about a resource from one product into another without doing a Launch In Context



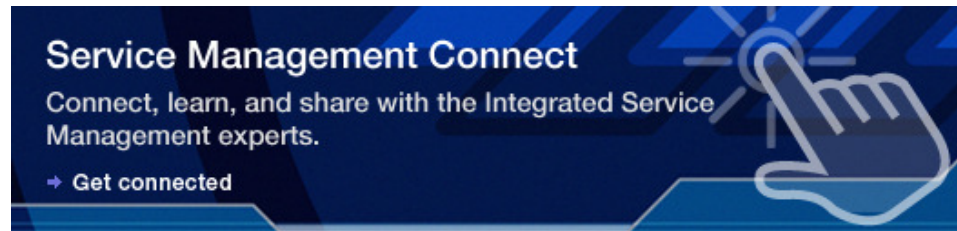
# UI Improvements

- OS Agent dashboards
  - ✓ Operations dashboards for OS agents will begin to be delivered in 6.3.
  - ✓ Administrators will continue to use TEP or CLI.





# Service Management Connect *Join the conversation!*



*Technical communities for Integrated Service Management practitioners*



**Communities**  
Connect with the  
ISM experts



**Blogs**  
Read technical  
perspectives from  
experts



**Wikis**  
Learn and share  
best practices



**Profiles**  
Access a wide  
range of ISM skills



**Forums**  
Ask and respond  
to technical  
questions

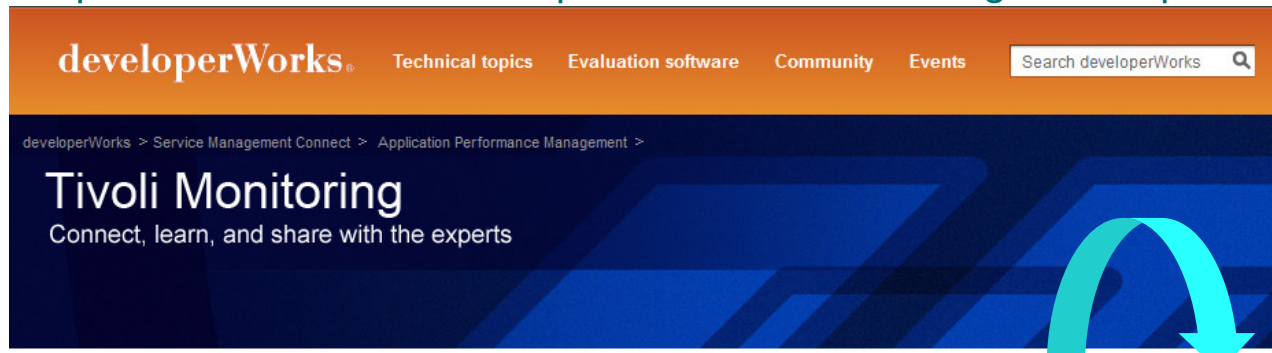
<http://www.ibm.com/developerworks/servicemanagement>



# Transparent Development

<https://www.ibm.com/developerworks/servicemanagement/projects.html>

<https://www.ibm.com/developerworks/servicemanagement/apm/itm/index.html>



**Milestones and Sprint Demos**

Latest milestones: Sprint demos:

## Release Overview

IBM Tivoli Monitoring monitors and optimizes the performance and availability of your IT infrastr hardware, software and labor costs by tracking and improving server utilization.

### Themes

The following themes guide the planning of this release:

**Analytics Enhancements:** Items that improve the forecasting of capacity and performance met monitoring data to predict failures.

- Add Predictive Analytics support by integrating the ITM Tivoli Performance Analyzer (ITPA) c product
- Frequent data streaming to an analytics engine

## IBM Tivoli Monitoring / Plan item 21121

Created on: 09 Feb 2012    Last update: 27 Feb 2012    ★★★★★ (0 rating)    (0 comments)

**Details**   **Comments**

**Improve TEP client support for Firefox browser**

Status: Under evaluation    Progress:  0%

Priority: Medium

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**Description:**

Java 1.6u10 introduced a completely new Java plug-in architecture for deploying Java applets, called the 'next generation' Java plug-in.

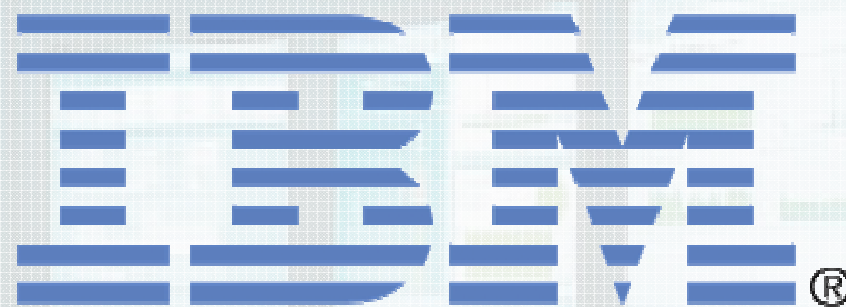
The TEP browser client does not currently support this next-generation architecture, and can only operate with this new plug-in disabled (which requires additional customer configuration of the Java environment).

Firefox v3.6 and above requires the use of this next-generation plug-in for Java applets. There is no configuration facility available to force the browser to use the previous legacy plug-in. This means that the TEP browser client is not supported for commonly used versions of Firefox today.

Firefox 10 ESR is a target platform for this epic.

**Rate this item** ★★★★★





**THANK YOU!**

