Maximo & Tririga Product Roadmap

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Pulse2012

Meet the Experts. Optimise your infrastructure.

May 31 – June1

Sheraton on the Park Hotel, Sydney

Disclaimer

Please Note:

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Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision.

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Topics

- Smarter Physical Infrastructure

- Highlights from 2011
  - Development goals
  - Portfolio & Roadmap delivered
  - Intelligent Building Management
  - HS&E
  - BIM Integration

- Roadmap for 2012
  - SmartCloud Control Desk
  - Scheduler
  - Mobile
  - Maximo/Tririga Integration

The replacement value of the world's physical infrastructure is tens of trillions of dollars. We need to more effectively: prescribe, predict, analyze, and understand

Business

Businesses depend upon infrastructure to meet their goals and improve bottom line results

People

People depend on infrastructure to live their lives and pursue their dreams

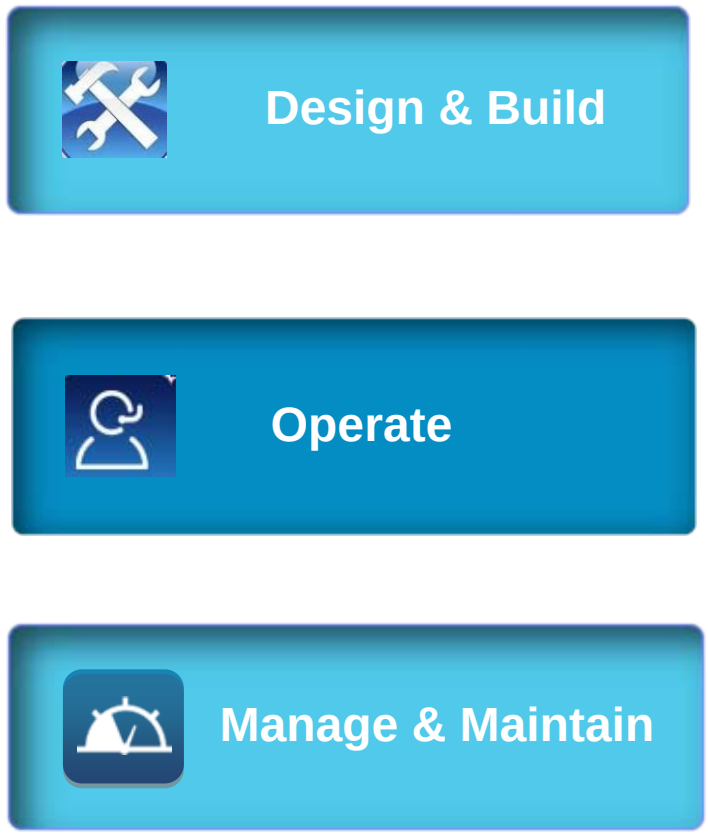
Society

Societies depend upon infrastructure to care for their citizens

Smarter Physical Infrastructure

Today's progressive global organizations are:

- Transitioning to smarter, flexible infrastructures
- Enabling more intelligent enterprise assets
- Delivering insight, recommendations, performance, and optimization across their organization



Key Capabilities

IBM Asset and Facilities Management

- Deep enterprise asset management functionality provided for key industries
- Extended capabilities bring specific asset knowledge that enhances baseline EAM functionality
- Integrated set of technologies to reduce facility operational costs, manage real estate assets, and meet energy efficiency regulatory drivers.

2011 Highlights and Delivered Products

Maximo Development Objectives

• Development Principles: Customer Value

- Enhance Maximo best-in-class capabilities and solutions
- Drive innovation with input from customer groups, advisory councils and business partners
- Continue to produce High Quality products; leverage customer input during every step of the development cycle
- Protect customer investment; upgrades to future Maximo versions
- Commit to Open Standards: J2EE, SOA
  - both IBM and non-IBM platform components

• Development Focus

- Continue to Enhance Version 7 core capabilities, architecture, platform and technology
- Incremental Features and Value-add capabilities to extend Version 7
- Expand deep Industry Solution functionality and new Growth areas such as:
  - Intelligent Buildings
  - Safety, Risk and Compliance
  - Facilities Management/Space Planning
- Leverage IBM products and technology

Maximo and TRIRIGA Solutions

Core Solutions

Stand-alone solutions for asset, facility and real estate management.

Industry Solutions

Industry-specific capabilities for the unique requirements of asset-intensive industries.

Maximo and TRIRIGA Solutions

Add-on Solutions

Additional options, used with core or industry solutions, provide deeper functionality for specific needs.

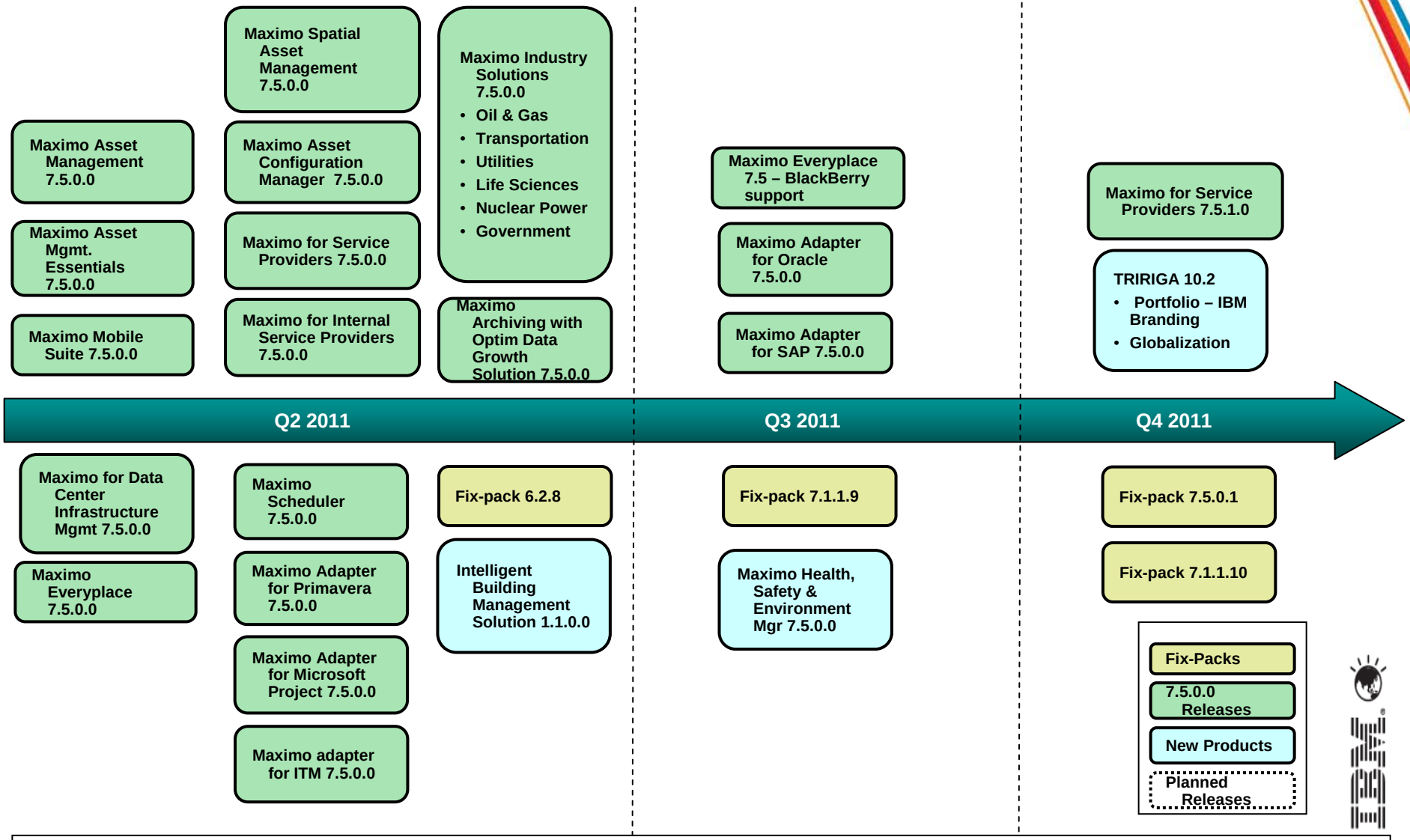
- **Maximo** Service Provider
- **Maximo** Calibration
- **Maximo** Archiving
- **Maximo** Spatial
- **TRIRIGA** Strategic Facility Planning
- **Maximo** Scheduler
- **Maximo** Linear Asset Manager
- **Maximo** Real Time Asset Locator
- **Maximo** for Energy Optimization
- **TRIRIGA** Facility Assessment
- **Maximo** Health, Safety & Environment Mgr
- **Maximo** Asset Configuration Manager
- **Maximo** Mobile
- **Maximo** Everyplace
- SMART Mobile (Syclo)

Integration Adapters

Commercially-supported integration to other enterprise and 3rd party systems.

- **Maximo** Adapter for SAP
- **Maximo** Adapter for Oracle
- **Maximo** Adapter for Primavera
- **Maximo** Adapter for MS Project
- **TRIRIGA** Connectors

2011 Asset Management Products - Delivered



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Feature Enhancements to Maximo 7.5

Important new enhancements have been added to base Maximo to extend core functionality, provide additional value, improve customer satisfaction and deliver innovation through new capabilities

Focus	Feature
Enhanced User Functionality	• New supply chain management: Inventory/receiving • Enhanced supply chain management: – PO/PR/RFQ/Invoicing • Enhanced work and asset management – Hard/soft reservations – Linear Asset Visual Control – Repair Facilities – more
Improved cost of ownership	• Automation scripts • Application data import/export • Enhanced Migration Manager • Expanded Reporting capabilities • Usability and performance
Expanding the base	Calibration and Scheduler add-on code included in base, simplified installation – Asset Templates – Job Plan Revisioning – PM Forecasting – SLA Manager
Platform Currency	OS: Windows, Linux, Unix DB: DB2, Oracle, SQL Server WS: WebSphere, Weblogic Browser: Firefox, IE

Current Versions

Maximo 7.5 - Expanded Footprint

Asset Management	Work Management	Materials Management	Purchasing	Contract Management	Service Management
Locations • **Repair Facilities** Asset •**Asset Templates** Failure Codes Linear Assets • **Visual Control** Condition Monitoring Meters Meter Groups	Job Plans • **Revisioning** Routes Service Requests Work Order Tracking •**Assignment Tab** •**Hard/Soft Reservation** •**Repair Facilities** Safety Quick Reporting Labor/Crafts Tools Preventive Maintenance • **PM Forecasting** Master PM Assignment Manager	Item Master Storerooms Inventory •**Inventory Usage** •**LIFO/FIFO Costing** • **Consignment** • **Transfer via Shipment** • **Default Costing** Condition Codes Stocked Tools Service Items	Request for Quotation Receiving Receiving Inspections **Shipment Receiving** Purchase Requisitions •Invoices • **Invoice Reversals** Purchase Orders • **Revisioning** • **Receipt Tolerance** Desktop Requisitions	Purchase Contracts Master Contracts Warranty Contracts Lease/Rental Contracts Labor Rate Contracts •**Premium Pay Rates** Payment Schedules	**Service Groups** **SLA Management** Change Management •Incidents •Problems •Changes •Releases •Solutions

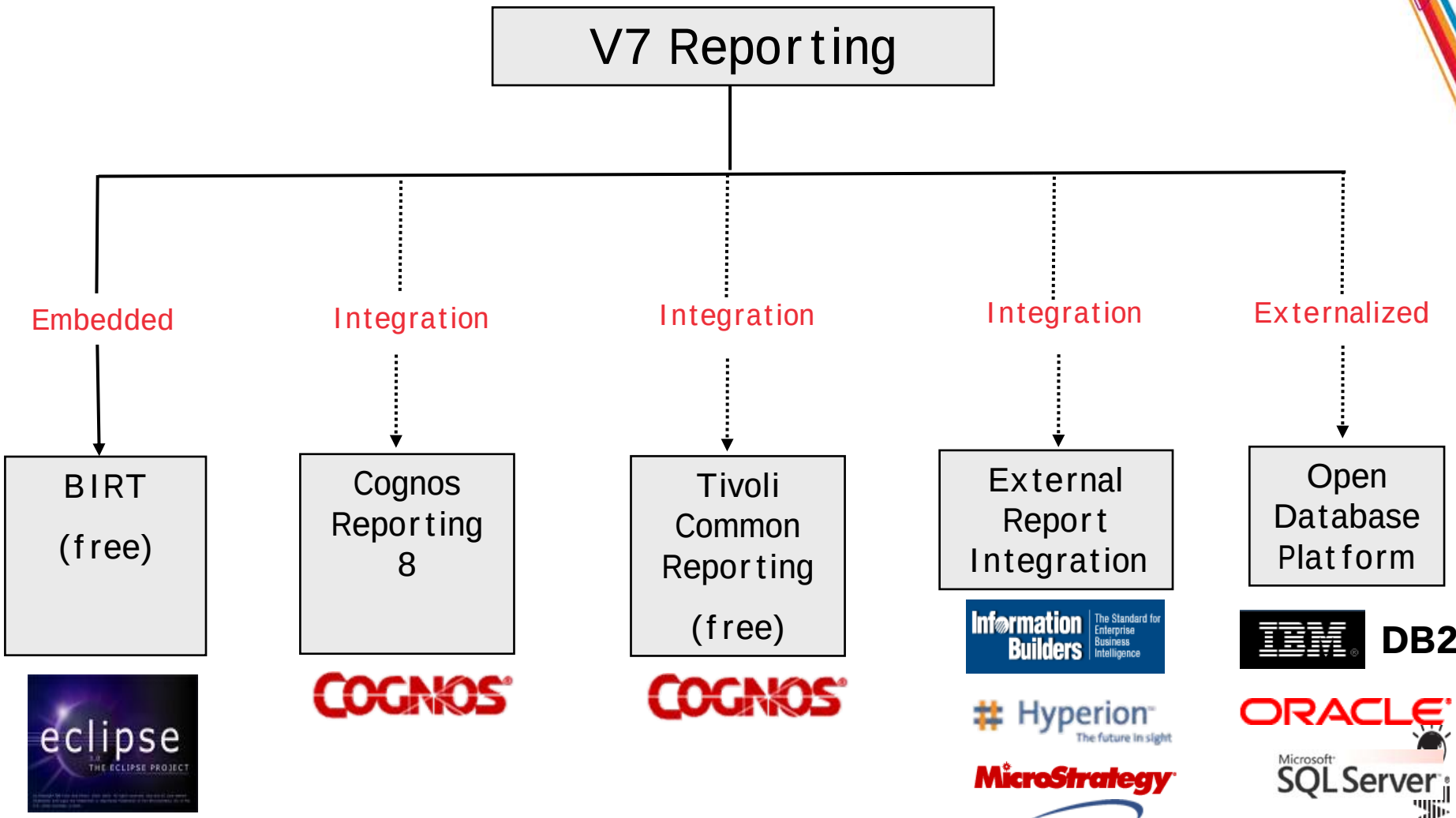
Enhanced Workflow – Event Driven, Context-based / Escalation Manager

KPIs / Reporting/ Ad-hoc Reporting / Cognos Integration

Security/Administration/Configuration – Automation Scripts, Migration Manager

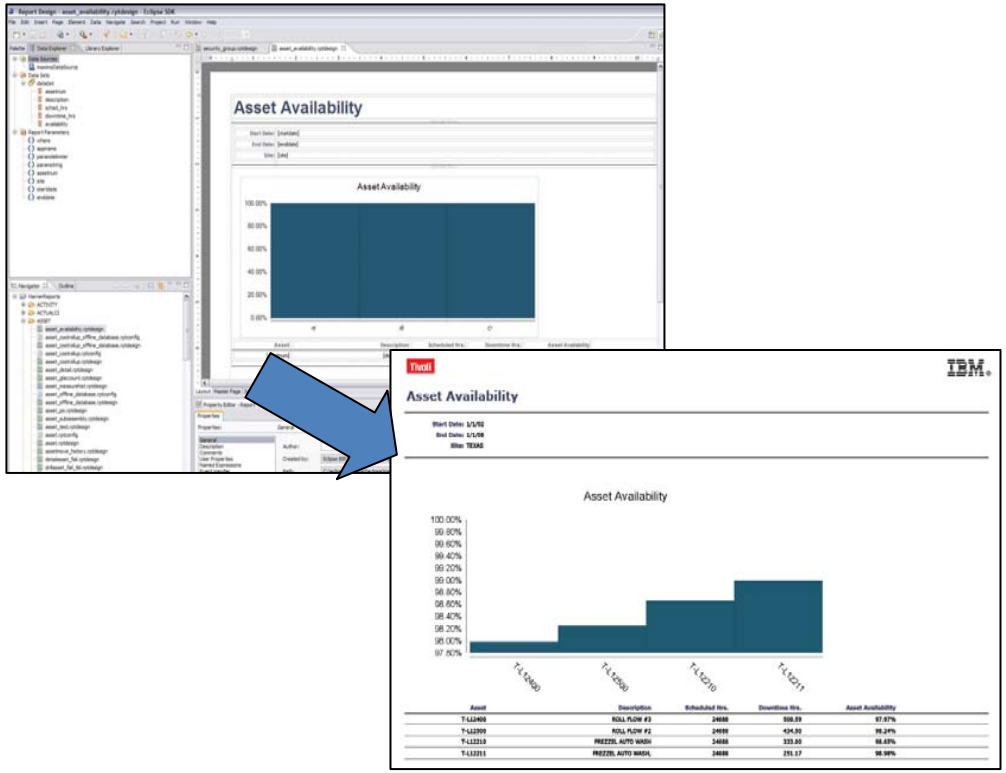
Integration/Web Services – Import & Export direct from applications

Maximo Open Report Architecture



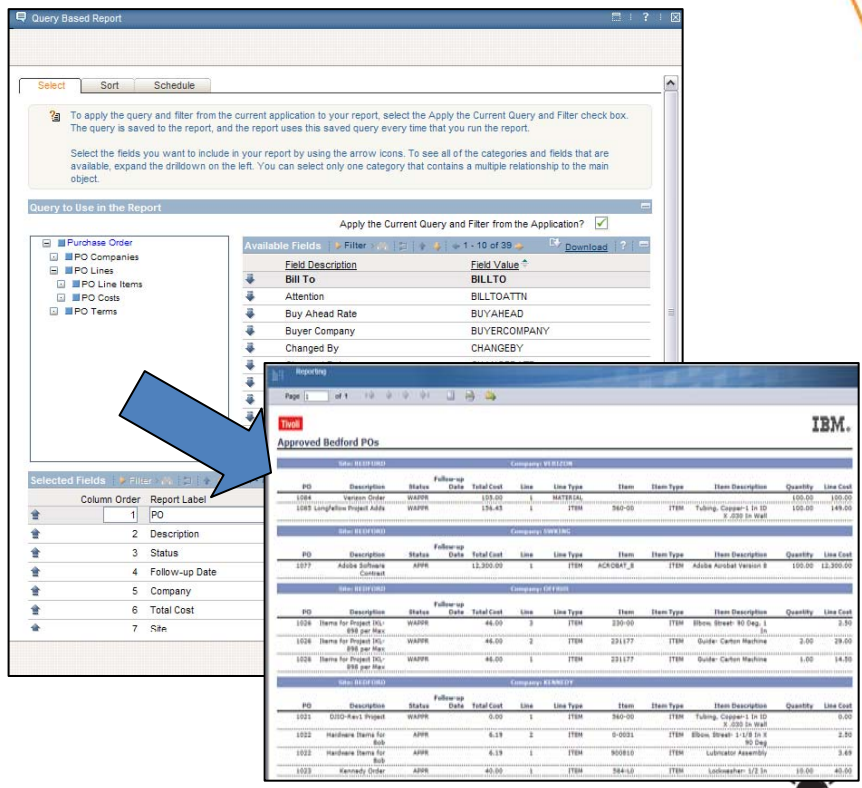
Types of Core BIRT Reports Available

Enterprise, Formatted Reports
for *Heavy, Multi-User* Access



- Created in BIRT Report Designer
- Requires Database/Java Skills
- Fixed Content/Format

Ad Hoc, Dynamic Reports
for *Individual* Use



- Created on Fly
- No Database/Java Skills Needed
- Variable Content/Format

Maximo Health, Safety & Environment Manager 7.5

Best practices for improving HS&E, reliability and quality

• *Integrating health, safety and environmental processes with work and asset management*

Highlights

- Best in class capabilities and best practices for improving safety, reliability, and compliance
- Facilitates meeting or exceeding regulations and legislated requirements impacting health, safety and the environment.
- Standardization is the basis for measuring, benchmarking and continuously improving performance
- Collaboration across operations, engineering, maintenance and management enables operational efficiencies and better practices for HS&E management
- Enterprise scale, comprehensive solutions for improving compliance activities in a risk-based, safety and quality oriented environment

– The primary objective of Health, Safety, and Environment (HS&E) initiatives is to reduce overall risk, to comply with Federal, State and Local regulations, and to create a safe yet efficient operating environment for a company.

– Maximo's solution for Health, Safety, and Environment provides key extensions to Maximo Asset Management to provide strategic applications for incident reporting, audit management, risk assessment, safety reporting, management of change, condition reporting, corrective actions and training.

IBM Intelligent Building Management 1.1

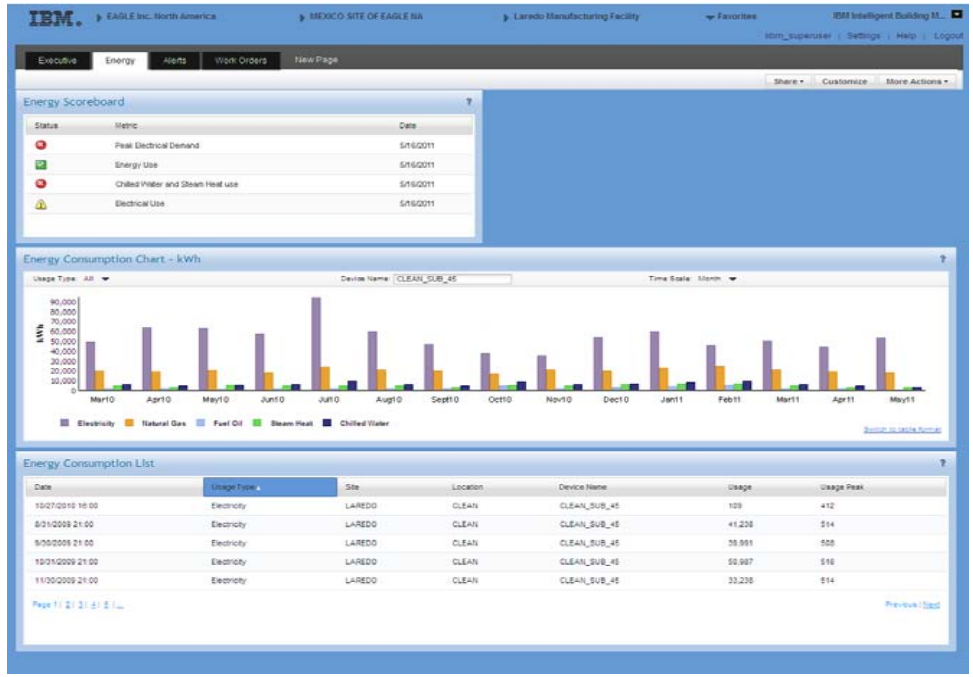
• *Integrated software solution for improving buildings management and facilities operations*

Highlights

- Lower building operating cost by consolidating building information and by performing analytics to identify energy optimization opportunities
- Improve facility operations by analyzing real-time equipment alerts and automated service requests to more efficiently service key building equipment
- Gain flexible enterprise, regional and building-specific views of energy trends, alerts and facilities operations across the building portfolio and building management systems
- Extend the life of building assets through proactive maintenance enabled by real-time condition monitoring
- Provide a consolidated role-based dashboard for one stop view of building operations

– IBM Intelligent Building Management is an integrated software offering that combines real-time systems monitoring with facilities and event management to help analyze and optimize facilities operations, reduce energy expense, and improve asset management and reliability

– The solution gives building owners and managers the ability to collect vital real-time energy and operational metrics, apply enterprise-wide analytics, and view that data in a cohesive dashboard to support optimization capabilities.



TRIRIGA 3.2/10.2

Integrated Workplace Management Solution

Addresses critical processes for the total life cycle of a building from construction, design, and project management to leasing, portfolio management, maintenance management, space management, energy and environmental sustainability and asset disposition.

- IBM re-branding, Open source remediation and 3rd party contracts
- Introduction of BIRT reporting
- New language support for French, Spanish, Italian and Brazilian Portuguese
- Functionality within Real Estate to accommodate new FASB/IASB accounting rules.

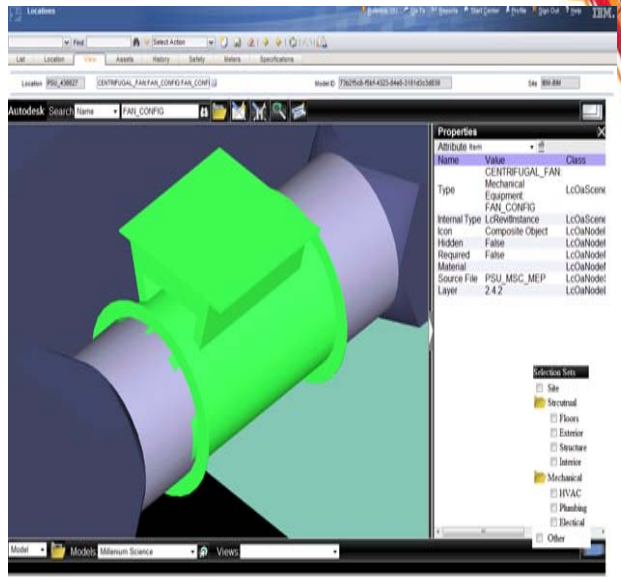
ISM Library deliverables – Free downloads

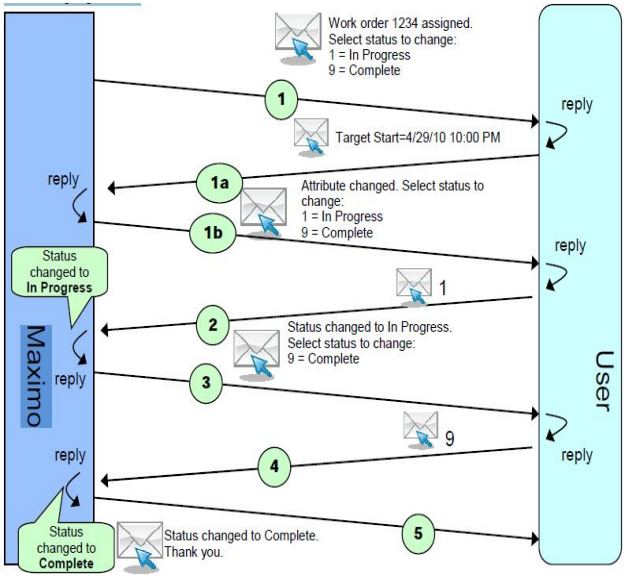
- Maximo Extensions for Building Information Models (BIM)
  - – Building Information Models (BIM) is an industry representation of the building which is used during the design and build phases of building construction. This package allows the automatic loading of the data in the BIM model into Maximo to begin the process of maintaining the building.

  - – Quickly and accurately import Asset and Location data into a Maximo hierarchy using the COBie standard

  - –Requires Autodesk Navisworks License for visualization

https://www-304.ibm.com/software/brandcatalog/ismlibrary/details?catalog.label=1TW10MA44





- Maximo for Email
  - – Enables E-mail Interaction with Maximo. An application and set of corresponding utilities and templates that allow Maximo record information to be emailed to a Maximo user, and updated via the edited reply.

  - – Addresses email record ‘Approval’ status changes via BlackBerry and other email capable devices

  - – Will be included in Maximo, initially with fix pack 7.5.0.3

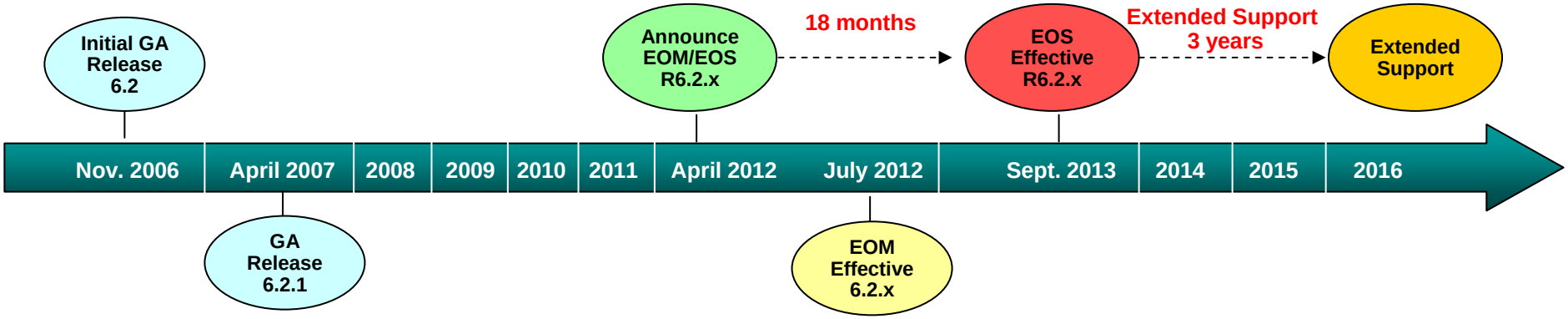
https://www-304.ibm.com/software/brandcatalog/ismlibrary/details?catalog.label=1TW10MA37

* Requires Maximo Users license

2012 Roadmap and Planned Deliverables

End of Support Announcement – Maximo Release 6.2.x

- Announced End of Market & End of Support: April 10th, 2012
- Withdrawal from Market effective: July 10th, 2012
- End of Service effective: September 30th, 2013
- Extended Support available for 3 additional years: September 2016



- IBM Software Support Lifecycle Support policy:
  - http://www-01.ibm.com/software/support/lifecycle/lc-policy.html

- IBM Support Lifecycle list of Maximo Products:
  - http://www-01.ibm.com/software/support/lifecycleapp/PLCSearch.wss?q=Maximo&scope=G821126W33273S39&ibm-view-btn.x=14&ibm-view-btn.y=12&ibm-view-btn=Search&sort=P

2012 Asset Management Product Roadmap In-process

2012 Focus:

- Address high-value customer requirements across multiple industries and markets with delivery of new solution for advanced Scheduling, Dispatch & Routing of work
- Enhance existing Maximo, TRIRIGA and ISM solutions
- Continued maintenance for multiple releases, delivering Fix-packs for R6.2.x, 7.1.x and 7.5.x

Maximo Adapter for SAP
Fix-pack 7.5.0.1

Maximo
Fix-pack 7.5.0.2

TRIRIGA 10.2
- **Additional Languages**

Advanced Scheduling

Fix-pack 7.5.0.3
- Features:
- Crews
- Public Map API
- Service Addresses

Maximo Scheduler 7.5.1.0
- Schedule Compliance
- Graphical Labor Assignments
- Dispatching
- Additional Resources
- WO Actions

Maximo
Fix-pack 7.5.0.4
- Rolling Upgrade
- High Availability

TRIRIGA 10.3
- Reservation Mgmt
- Sustainability enhancements
- Building System Integrations

Maximo Industry Solutions and Add-On's 7.5.x.0

Maximo 7.5.x.0
- Multi-Tenancy
- Linear Enhancements
- Supply Chain

Maximo Industry Solutions and Add-On's 7.5.x.0

Maximo Scheduler 7.5.x.0
- Schedule and Route Optimization

H1 2012 | **H2 2012** | **H1 2013**

Smart Cloud Control Desk 7.5
- IT Asset Mgmt
- Service Mgmt
- Change Mgmt

Maximo
Fix-pack 7.1.1.11

Maximo Service Provider
Fix-pack 7.5.1.1

Maximo for Utilities
Fix-pack 7.5.0.1

Maximo for Spatial
Fix-pack 7.5.0.1

Maximo Nuclear 7.5.1.0
- LCO Tracking
- Duty Stations

Maximo Mobile 7.5.1.0
- Platform Cert.

Maximo-TRIRIGA Integration
- Capital Project Mgmt
- Space & Move Mgmt

Maximo
Fix-pack 6.2.9

Smart Cloud Control Desk 7.5.x

Maximo
Fix-pack 7.1.1.12

Maximo
Fix-pack 7.5.0.5

Key
- Fix-Packs
- 7.x.0.0 Releases
- New Products
- Planned Releases

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Maximo/Tivoli Process Automation Engine (Tpae) Fixpack Roadmap

Function in a fix-pack

- Tpae 7.5.0.1 Function in FP – Oct 2011
  - WCAG 2.0 accessibility compliance
  - Client-side validation (ITD driven)
  - VMMsync incremental synchronization for LDAP
  - REST API
  - SEF remediation
- Tpae 7.5.0.2 Function in FP – Mar 2012
  - Enhancements and enablement support for SCCD 7.5
  - Platform currency (WAS 8)
- Tpae 7.5.0.3 Function in FP – Jul 2012
  - Enablement support for Scheduler 7.5.1
  - OSLC consumer support
  - Integration 'Maximo for Email'
  - Platform currency (FF4, FF10, IE9, BIRT 3.7, Cognos 10)

Fixes Only

- Tpae 7.1.1.11 FP – Jul 2012
  - Defect fixes only; no new function
- Tpae 7.5.0.4 FP – tentatively Nov 2012
  - Defect fixes only; no new function
- Maximo 6.2.9 FP – tentatively Dec 2012
  - Defect fixes only; no new function

SmartCloud Control Desk – delivered March 14, 2012

- **Next Generation Service and Asset Mgmt Product Evolution**

Why is this important to customers?

- Dramatic usability enhancements including left navigations, simplified applications, and consistency across apps
- Service management across IT and non-IT assets facilitated by asset/CI convergence
- Broadest set of options in the industry allows customer to move b/w cloud, private cloud, or traditional deployment
- Key enhancements in all process areas

Supports seamless business processes according to user maturity

Next Generation Service And Asset Mgmt

SmartCloud Control Desk 7.5

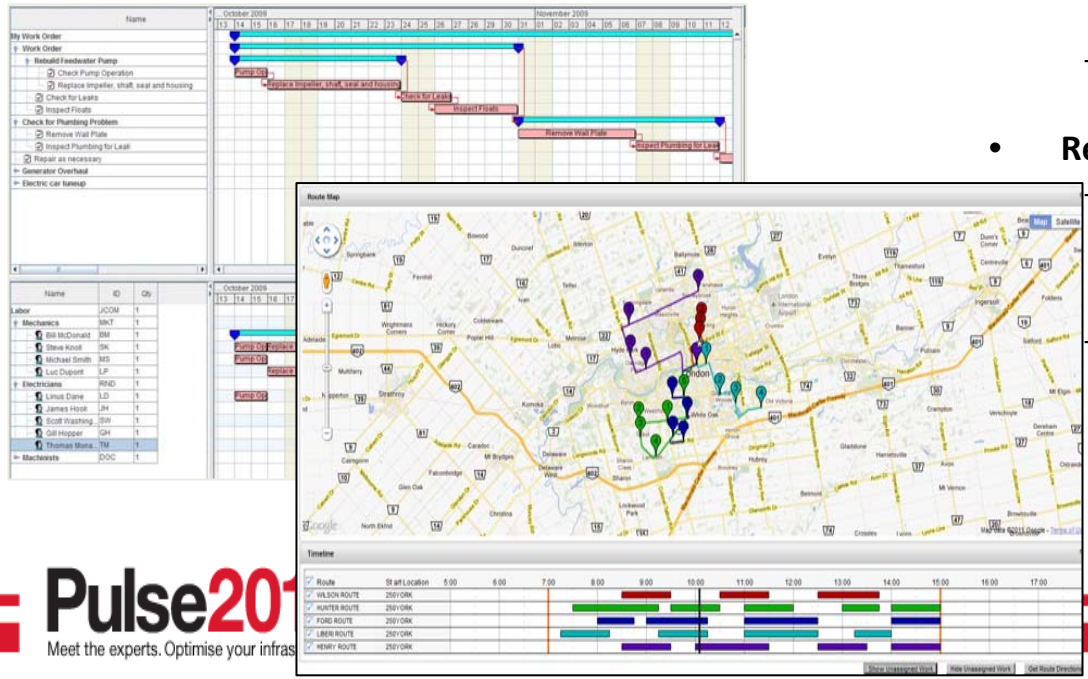
Full service management solution
Service Desk
Service Catalog
Change Mgmt
Config Mgmt
Release Mgmt
IT Asset Mgmt
Procurement Mgmt
Software License Mgmt
Automation across processes
Single platform
Single install
Single maintenance stream

Current product model oriented by silos based on business process and user type

TAMIT 7.2.1 --- TSRM 7.2.1 --- CCMDB 7.2.1 --- TRPM 7.2.1

Maximo Scheduler 7.5.1 – Enhanced capabilities

- **Schedule Compliance**
  - How is my Schedule performing?
  - Quickly identify Work orders that are running late
  - In progress and scheduled but not started
  - Identify the cascading effect of delayed work orders
  - Reschedule pending work orders by CPM or via manual edits
- **Graphical Labor Assignments**
  - Assign people/crews to work order / tasks
  - Drag & Drop assignments
  - Complements Assignment Manager
  - Similar business rules as the Assignment Manager
- **Change Status and Other Actions**
  - Can select multiple work orders and change the status
  - Create Job Plan, Follow up Work Orders, etc.



- **Additional resources will also be shown in the Gantt:**
  - Tools (both rotating and non rotating)
    - Show required vs available, similar to crafts
  - Materials
    - Indicate in green reserved items that are in stock
    - Show required vs available for non reserved items
  - Assets
    - Show maintenance window
  - Locations
    - Show maintenance window
- **Dispatching**
  - After Labor assignment, Dispatch work to the field technicians
  - Public Maps, geographical display of work
- **Resource Leveling and Optimization (Q1 2012)**
  - Optimal work schedule based on resource availability, time constraint and other user defined objectives like minimize cost, schedule emergency work first
  - Will use iLog CPLEX optimization engine

Maximo/Tririga Integration Work

- Assumptions
  - Supports existing Maximo user scenarios
  - Deliver a solution that allows for customers to be up and running quickly
  - Support latest versions of Maximo and Tririga (currently 7.5 & 10.2/3.2)

Description	Focus on Space Management	Focus on Space Mgmt and Capital Projects	Expanded use cases: Space Management Capital Projects TREES/RE/Other
Technical	Several pieces to apply various aspects. DB Scripts/UI/Code	Install Package applies changes to both Maximo and Tririga	All pieces included with either Maximo Asset Management or Tririga install. Administrative switches to enable features
Delivery	Template Solution	Supported ISM Library deliverable (no charge) Requires some services effort	Embedded in Core solutions: Maximo 7.5.x Tririga Facilities/ Capital Projects/etc. 10.3.x

Maximo Tririga Integration - Space Management

- Space/Move Management & SFP processes remain in IBM-Tririga
  - Transaction integration point between the systems is the Task = WO

4Q 2012

IBM-Tririga

Move Request comes in thru Tririga Request Central

1. System routes Request for approvals (if required) and sends notifications
2. Request Class determines work plan that is applied

3. Move Manager plans the move, identifies the people and assets ('To' locations) that will be moving (MLIs)
4. Work Plan (or Move Planner) determines if Project (with Tasks) is created or just Task

5. Once the Tasks are active, Maximo WOs are created

10. Task updated to Complete, MLIs updated to Complete, Tri Person / Asset Location/Allocations Updated, Notification and Survey sent, Metrics

IBM-Maximo

6. The Approved WO is routed to the Maximo Planner/Scheduler who Schedules the work for Completion
7. The scheduled WOs show up on the Move Technician's start center
8. Technician completes the work and captures the actuals

9. Upon status change of Maximo WO to Complete, the actuals are passed back to the Tririga Task and the Tririga Task Is updated To Complete

11. Person / Asset Location updated

27

IBM Maximo Mobile Suite

IBM Maximo Mobile Suite brings Maximo to remote workers in the field, wherever they are, regardless of connectivity, and helps them do their tasks with information in hand.

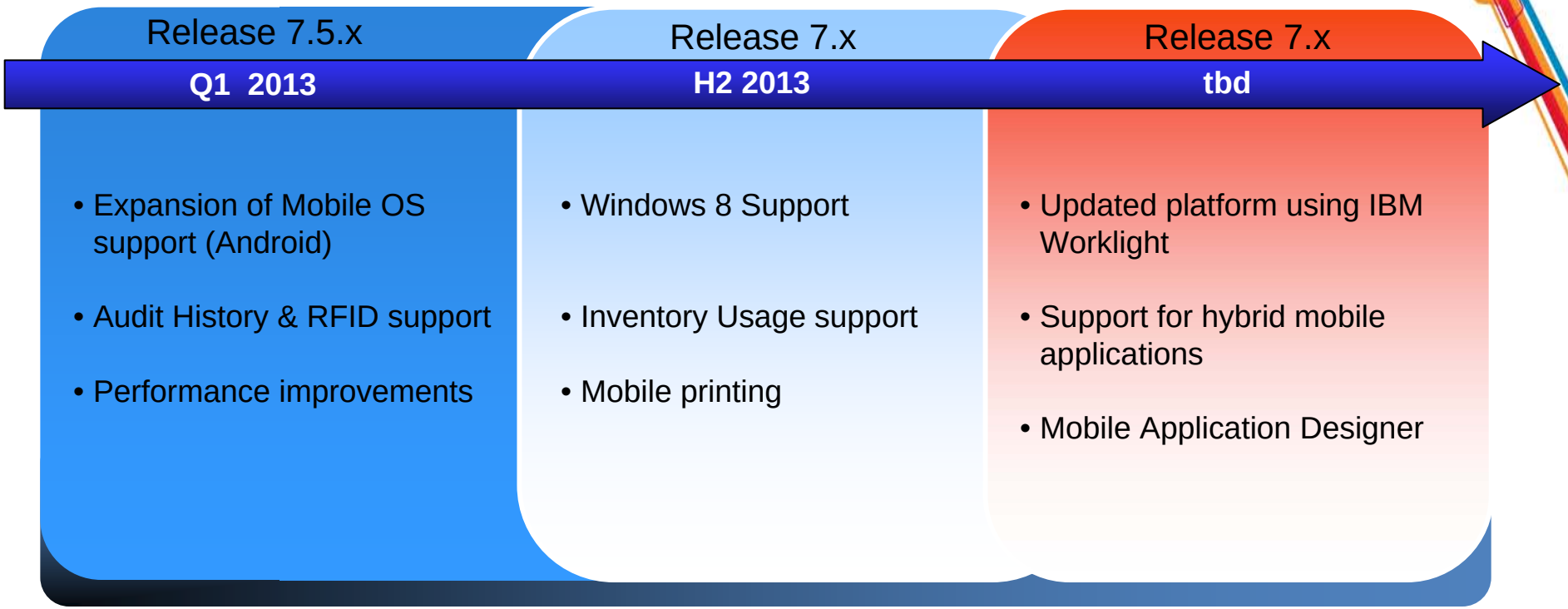
IBM Maximo Mobile Work Manager

IBM Maximo Mobile Inventory Manager

IBM Maximo Mobile Asset Manager

- **Work Order Management**
- **Operator Rounds**
- **Inspection**
- **Facilities Maintenance**
- **Service Desk**
- **Inventory Management**
- **Asset Inventory & Audit**

Maximo Mobile Roadmap



Maximo Everyplace Roadmap

Maximo Everyplace Work Mgmt Scheduler Applications

- field technician templates designed to hasten the day to day tasks of the Crew or Tradesperson

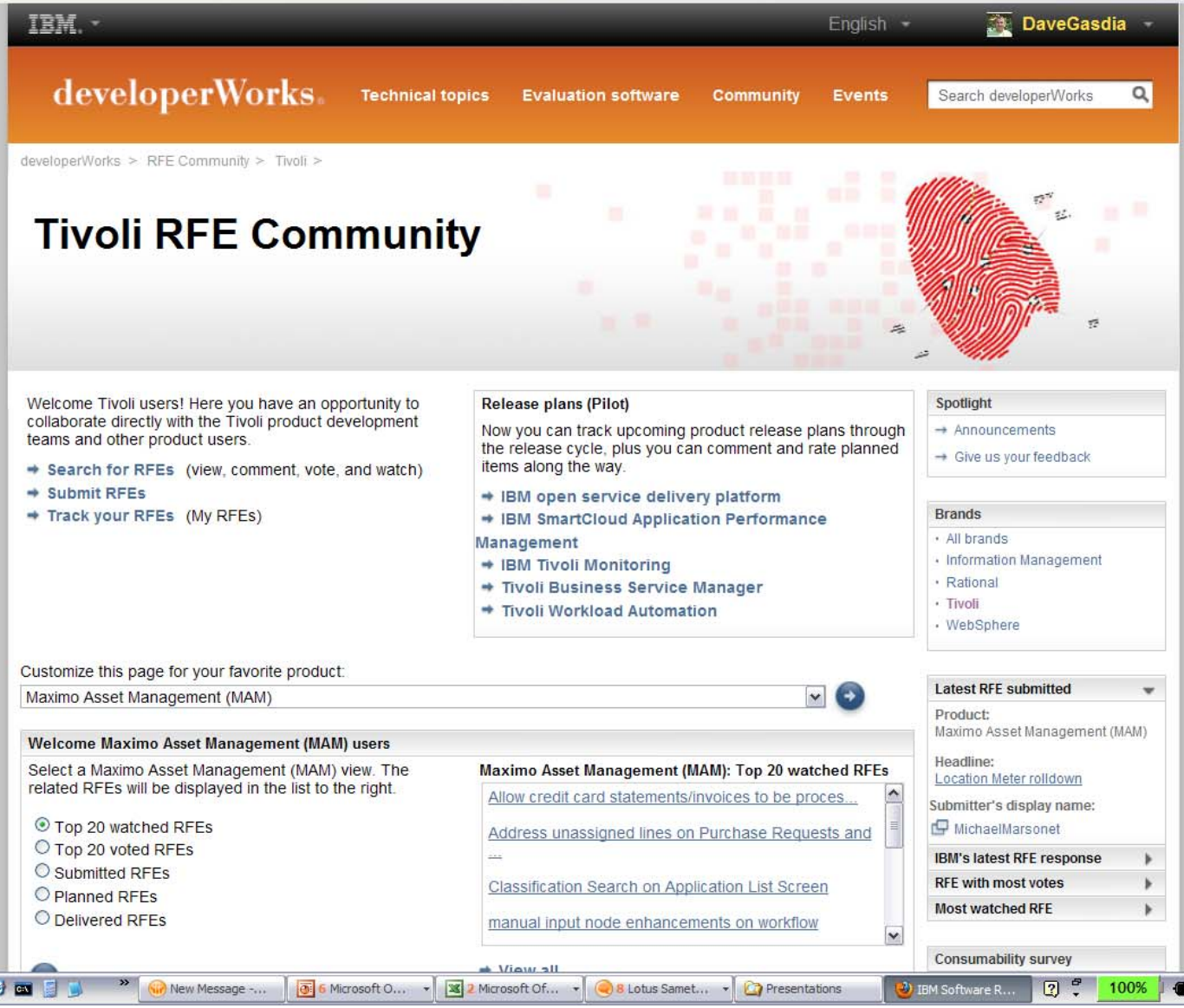
- Public Map, directions, visibility of nearby trades people or crews

- Route optimization

All dates are estimates and specific content is subject to change.

Do you have an Enhancement Request for Maximo?

http://www.ibm.com/developerworks/rfe/?BRAND_ID=90



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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput or performance improvements equivalent to the ratios stated here.

Prices are suggested U.S. list prices and are subject to change without notice. Starting price may not include a hard drive, operating system or other features. Contact your IBM representative or Business Partner for the most current pricing in your geography.

Photographs shown may be engineering prototypes. Changes may be incorporated in production models.

Product roadmap for facilities, real estate, energy and environmental sustainability

Maximo 7.5
RELEASED May 2011

Asset management and industry solution enhancements

Maximo 7.5.x
2H 2012

- Integrated TRIRIGA modules for Space and Capital Project Mgmt
- Advanced Scheduling
- Industry solution enhancements

Maximo 7.x

- Customer & market driven enhancements
- Additional integration with TRIRIGA modules

Consolidated Solution

- Consolidated Maximo and TRIRIGA solution

TRIRIGA 10.2
RELEASED Dec 2011

- FASB lease accounting compliance
- Translations: French, Italian, Spanish, Brazilian Portuguese

TRIRIGA 10.x
2Q/4Q 2012

- Reservation Management
- Sustainability Management enhancements
- Building Mgmt System Integration
- Additional Translations [2Q]

TRIRIGA 10.x

- Customer & market driven enhancements

IIBM 1.1
RELEASED June 2011

- Energy Analytics
- Building Systems integration
- Real Time Monitoring

IIBM 1.x
1H 2013

- Integrated with TRIRIGA TREES and becomes part of TRIRIGA portfolio
- TRIRIGA user interface

TODAY

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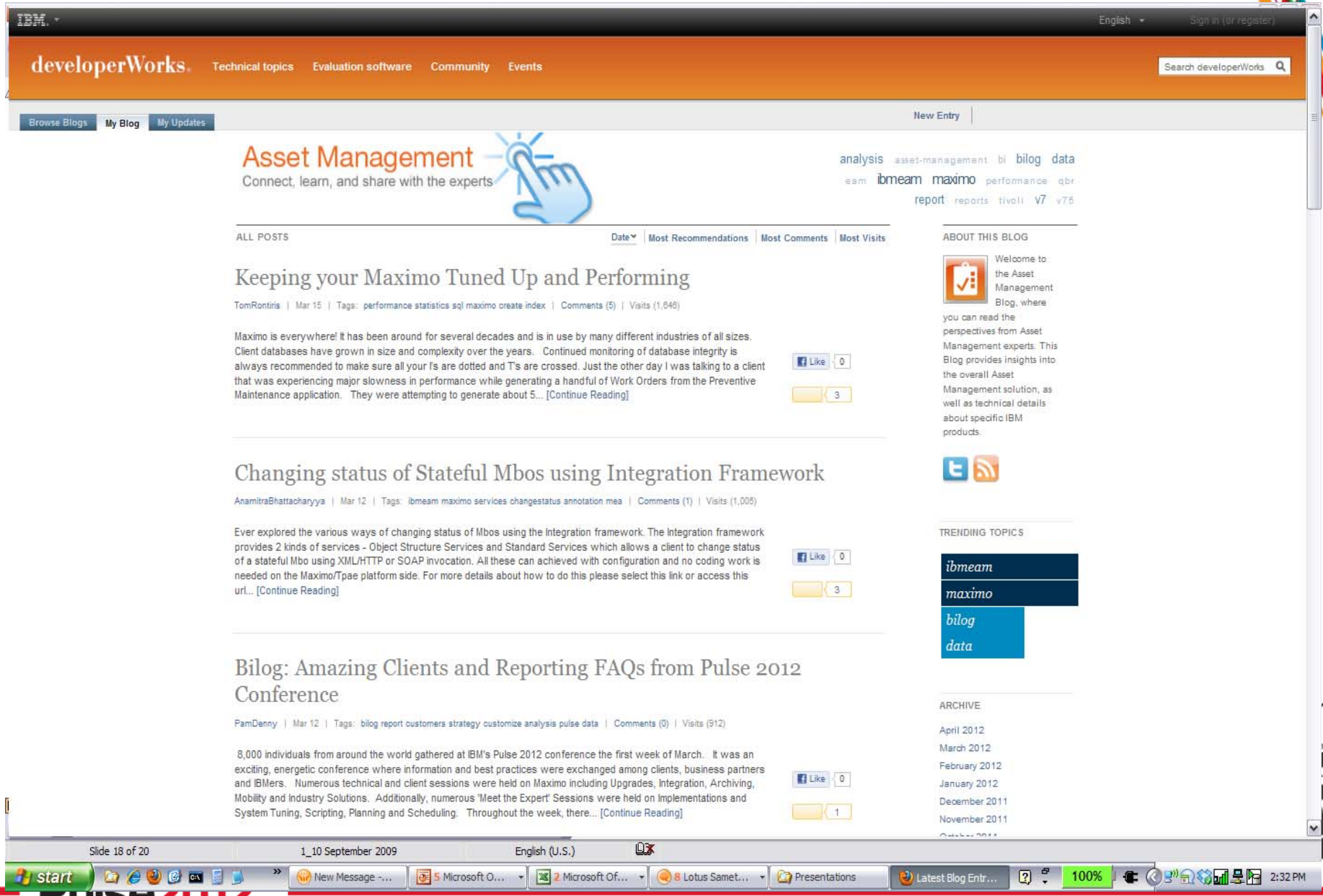
DeveloperWorks - Asset Management Blogs

https://www.ibm.com/developerworks/mydeveloperworks/blogs/a9ba1efe-b731-4317-9724-a181d6155e3a/?sortby=0&page=0&maxresults=15&lang=en



Maximo/Tpae 7.5.03 – features in a fix-pack supporting Scheduler

Maximo/Tpae

- Crews
- Map API
- Email for Maximo
- Service Addresses
- OLSC integration
- Everyplace templates

Industry Solutions

- Utilities
- Service Provider
- Spatial