Maximo Reporting Upgrade



Pam Denny, IBM

Email: pdenny@us.ibm.com

Twitter: andbflo_denny

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Agenda



Report and Data Options

BIRT Reporting

Configuration

Design

Development

Administration

Execution

Property Settings, Cron Tasks and Objects

Cognos Reporting

Reference Materials, Index and Questions

Agenda



Report and Data Options



BIRT Reporting

Configuration

Design

Development

Administration

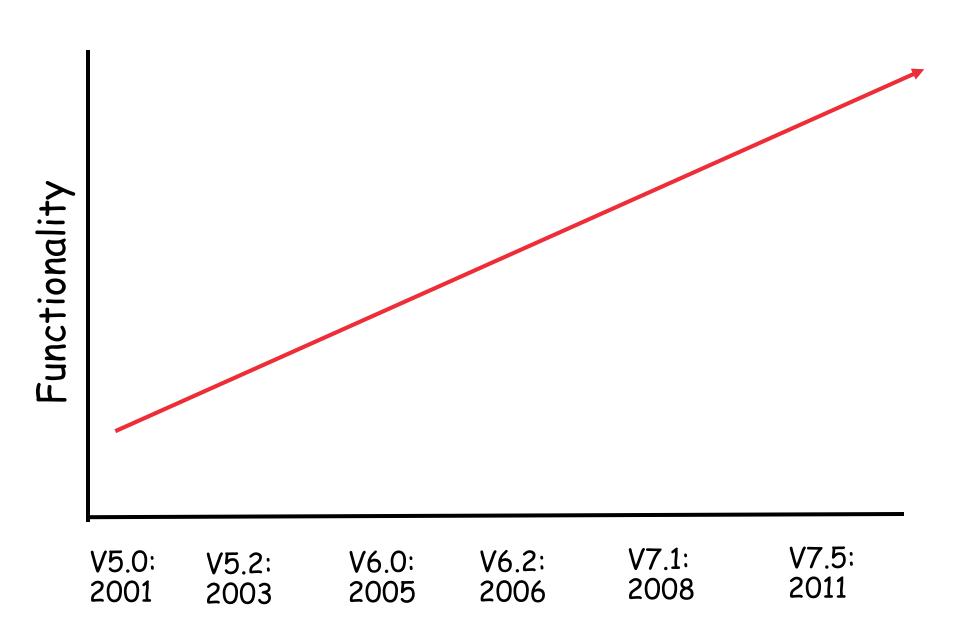
Execution

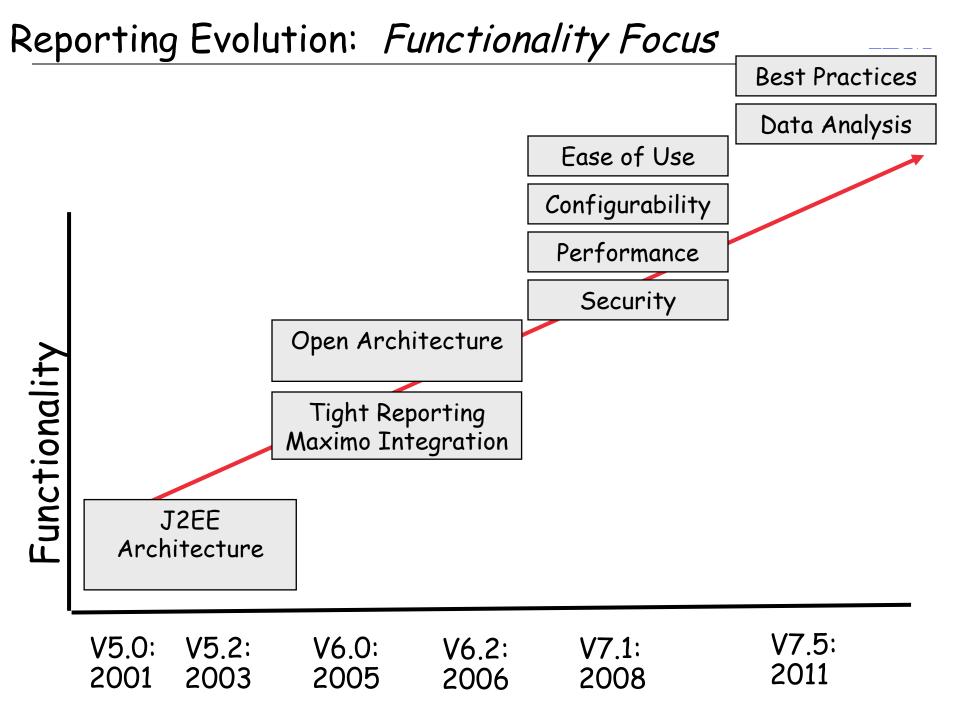
Property Settings, Cron Tasks and Objects

- 1. History
- 2. Reporting Options/Versions
- 3. Comparison BIRT vs Cognos
- 4. Report Strategy
- 5. Data Analysis Options

Cognos Reporting

Reference Materials and Questions

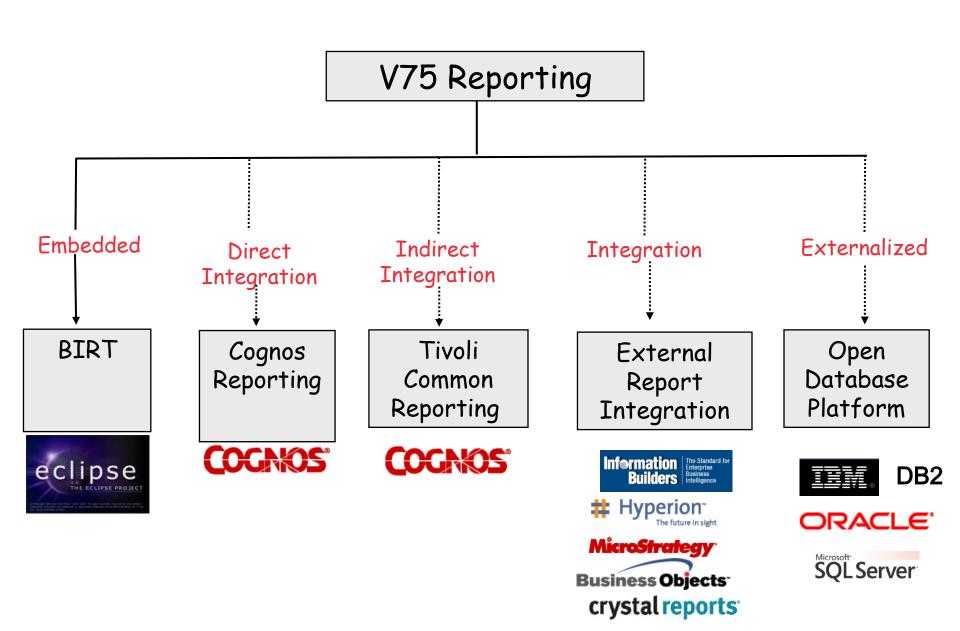




Functionality Focus drove embedded reporting tool in V7

Specific Reasons for change included....

- 1. Eliminate complex installations
- 2. Eliminate synchronization issues
- 3. Minimize 3rd Party Platform support issues
- 4. Capitalize on Existing Features within Maximo



	6.X	7.1x	7.5x
Embedded	Actuate	BIRT	BIRT

Integration Options

	6.X	7.1×	7.5x
Business Objects/Crystal			
External Report Integration			
Open Database Platform			
Cognos Reporting - Direct			
Cognos Reporting - TCR			
V7RI - BIRT Reporting			

Maximo Reporting Tools



Component Comparison

	6.X	V7 BIRT	V7 Cognos
Report Engine	iServer	BIRT	Cognos
Administration	(1) Management Console (2) V6 Report Admin	(1) V7 Report Admin	(1) Cognos Admin (2) V7 Report Admin
Report Display	Active Portal	Report Viewer	Cognos Portal
Report Development	erdPro	BIRT Designer	Report Studio
•	eSpreadsheet		
Ad Hoc Reports	eQuery	QBR	Query Studio

Maximo Reporting Tools - BIRT Version Support

Versions

Maximo Release	6.X	7.1×	7.5×	
	V7RI*	BIRT	BIRT	

Release	Date	Eclipse	BIRT
7.1 to 7.1.1.4	May 2008	3.2.2	2.1.2
7.1.1.5 to 7.5.0.2	June 2009	3.4.2	2.3.2
7.5.0.3+	July 2012	3.7.1	3.7.1

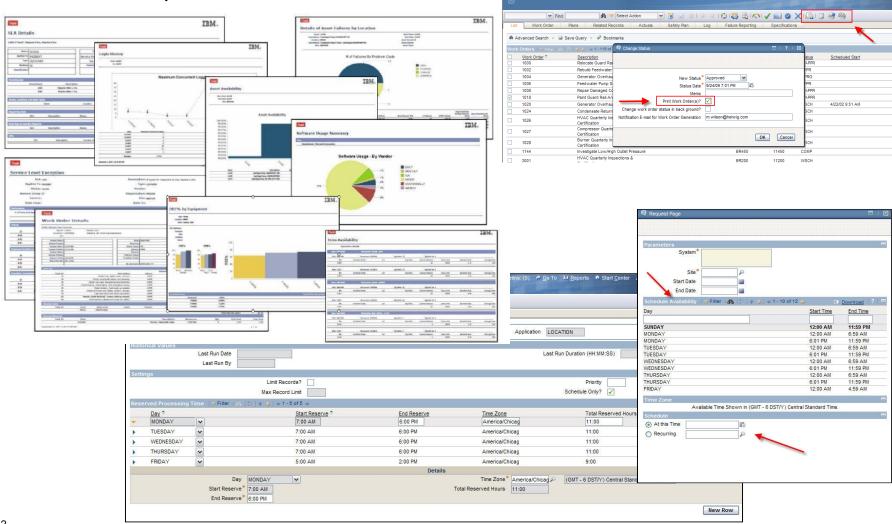
^{*}V7RI integration to V7.1, 7.5x available beginning with Maximo 626

Maximo Reporting Tools - Integration Options Version Support

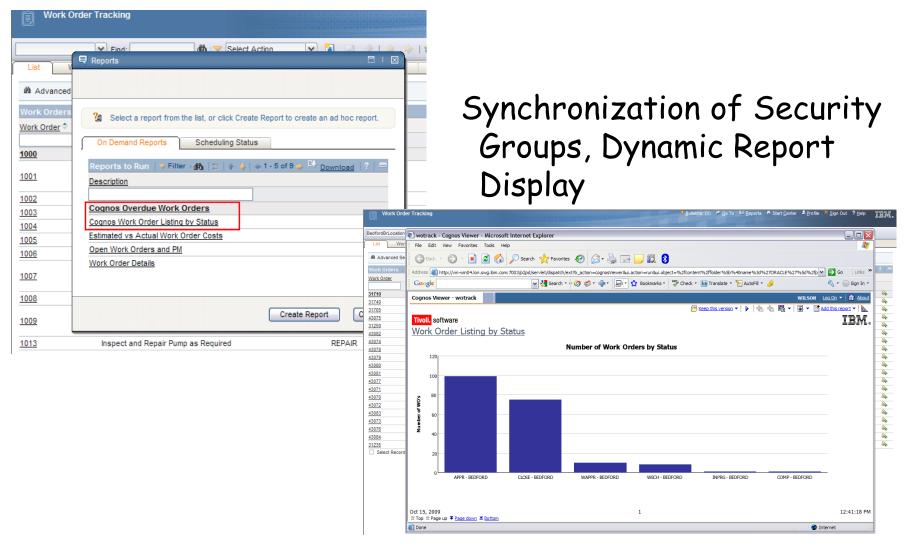
	6.X	7.1.16+	7.5.0.0-7.5.0.2	7.5.0.3+
Cognos Reporting - Direct	N/A	8.4	8.4.1	8.4.1, 10.1.1
Cognos Reporting - TCR/Cognos	N/A	1.3/8.4	2.1/8.4.1	2.1.1/8.4.1

	6.X	7.1×	7.5x
Business Objects/Crystal	BOXI Release 1	BOXI Release 2	N/A
External Report	Version		
Integration	Independent		
Open Database	Version		
Platform	Independent		

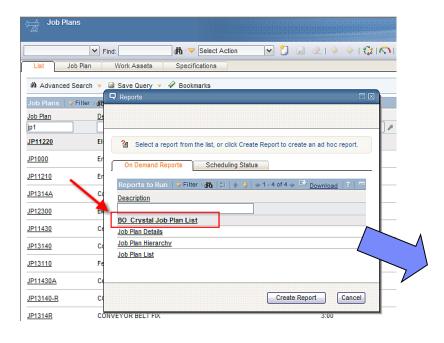
Deepest level of report integration, including silent installation and seamless integration, enabled by capitalizing on Maximo functionality



Access to Cognos Reports within V7 Applications



Integration to legacy reporting tool





Maximo 6

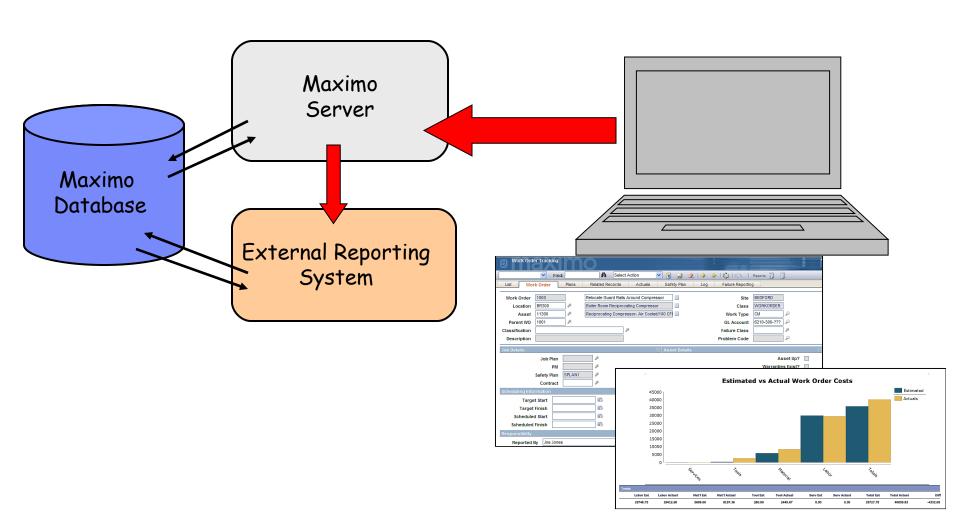
BusinessObjects Crystal Reports XI SP1 (BOXI Release 1)

Maximo 7.1 Only

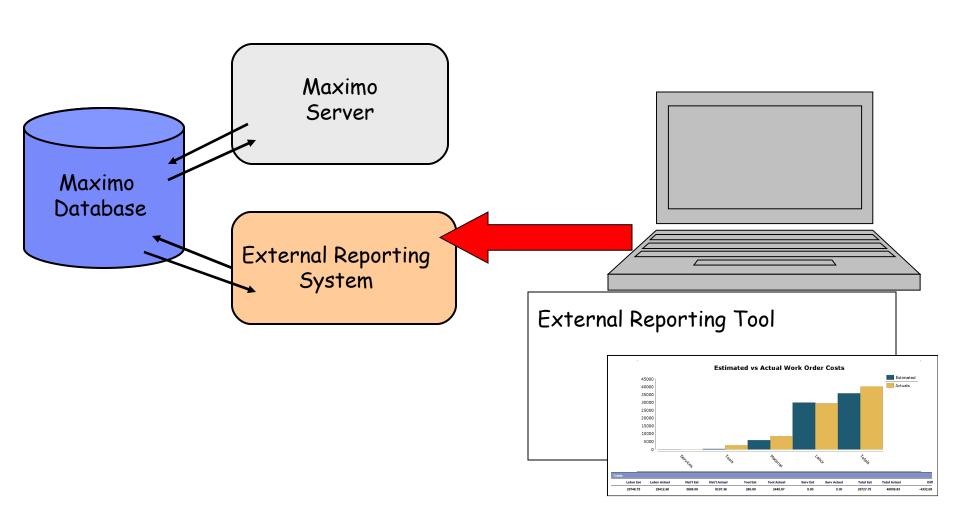
BusinessObjects Crystal Reports XI SP2 (BOXI Release 2)

^{*}Integration no longer available with Maximo 7.5

Creating powerful, value add reports internal to Maximo Framework

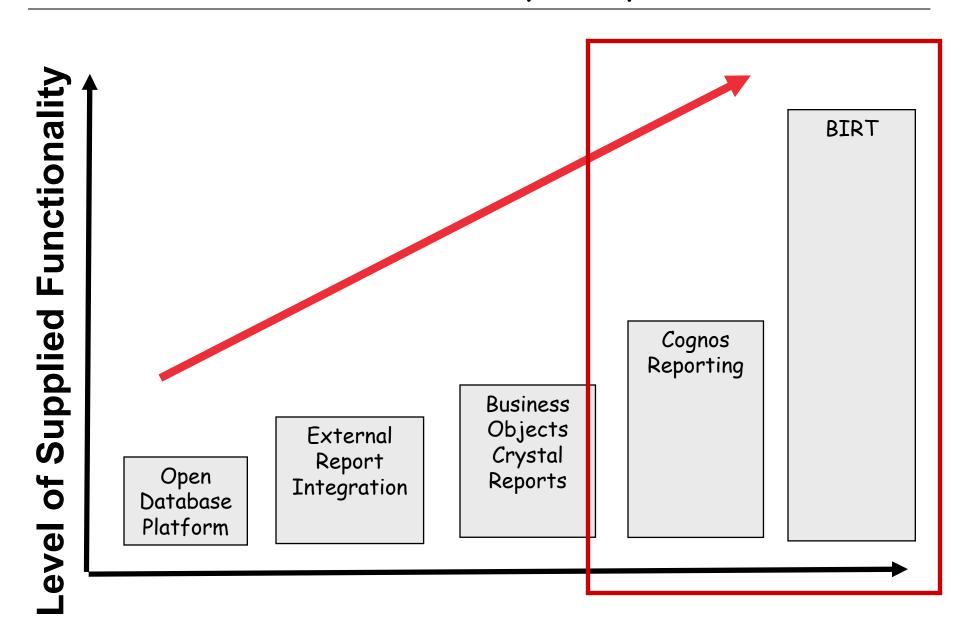


Creating powerful, value add reports external to Maximo Framework



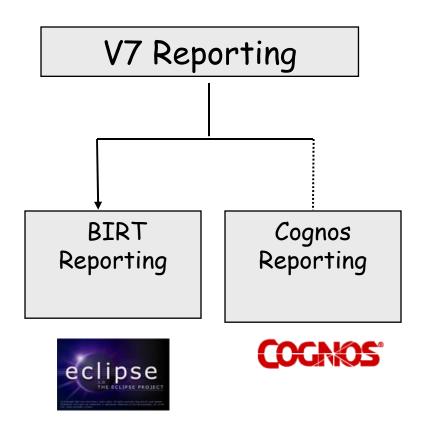
'Out of the Box' Functionality Comparison





V7 Embedded vs Integrated Reporting Comparison

Comparing functionality of tools within V7 Environment

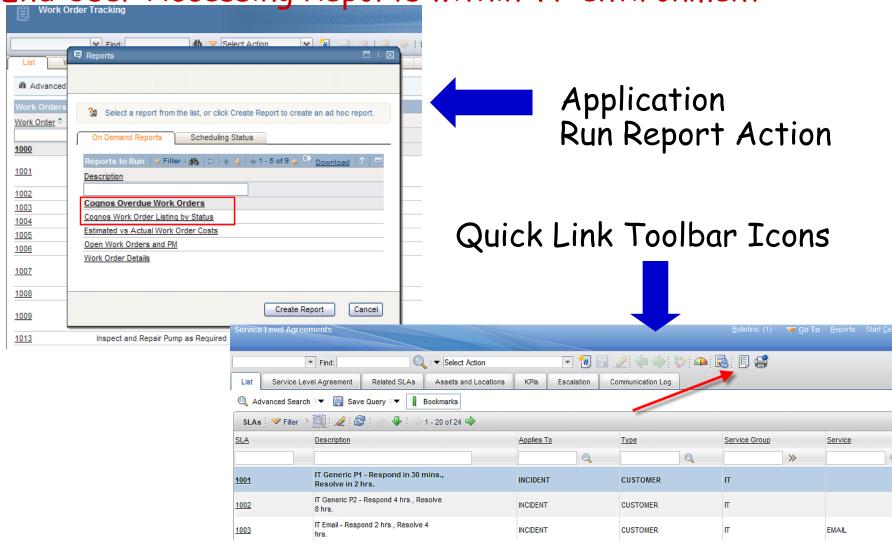


Role - Process	Actions include
Report Developer - Developing	Meta Data vs Sql, Delivered
Reports	Reports, Training, Logging
Administrator - Managing Reports	Installation, Security, Single
	Administration, Multi-Language
End User - Accessing Reports within	Inside application, utilizing
V7 environment	application query, data restrictions
End User -Working with Report Output	Printing, Scheduling, Emailing
Ad Hoc Reports - Creating Ad Hoc	Parameters, Graphs,
Reports	Calculations, Training, UI
Ad Hoc Reports - Managing,	Edit, Access, Meta data,
Security Features	Security

^{*}Full Comparison available at http://ibm.co/xJKa6D

Comparison Example

End User Accessing Reports within V7 environment



END USER - Accessing Reports within V7 Environment

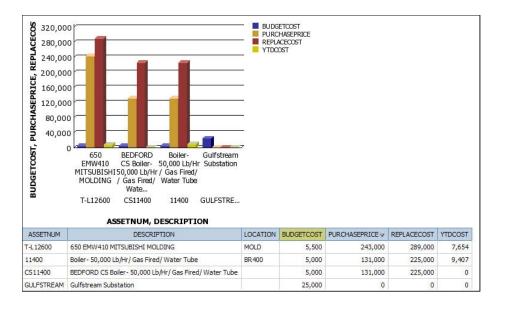
	V7 BIRT	Cognos
One Click Printing from V7		
(Direct Print, Direct Print with Attachments)		
V7 Application action initiates Report Action		
(Ex. Change in Status, Workflow)		
Always utilizes V7 Application Query		
Always passes V7 Data Restrictions		
Seamless V7 user experienceReporting has		
similar UI, minimal additional training		
Accessible Outside V7		
Launch to Other Reports, Report Actions		

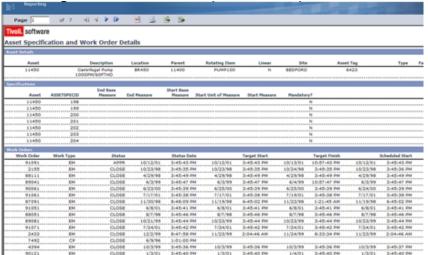
Cognos Ad Hoc Reports: Query Studio

Maximo Ad Hoc Report QBR

		Grouped By Location		
ASSETT	YPE: IT, PRO	DUCTION		
PURCH.	ASEPRICE: G	eater than or equal to 1		
				100000000000000000000000000000000000000
LOCATION	ASSETNUM	Asset Description	ASSETTYPE	PURCHASEPRICE
5THFLOOR	19998	IT (UNSPSC),Computer_Equipment,Computer,Desktop, 64.00 MB, 4.00 GB, 266.00 PROSPEED	IT	1,300
	20001	Server with upgrades	IT	2,000
	IT	99		
5THFLOOR				3,399
6THFLOOR	2002	Server with upgrades	IT	1,700
6THFLOOR				1,700
ADDR 2001	7000	Standard Laptop Computer	IT	1,200
	7001	Windows XP Operating System	IT	240
	7003	Laser printer (local)	П	700
	7100	Standard Laptop Computer	П	1,225
ADDR2001				3,365
ADDR 2002	9999	COMP_EQU,COMPUTER,DESKTOP, 266.00 GHZ, 64.00 MB, 4.00 GB	IT	2,100
	A7700	Standard Desktop (Configured)	П	1,450

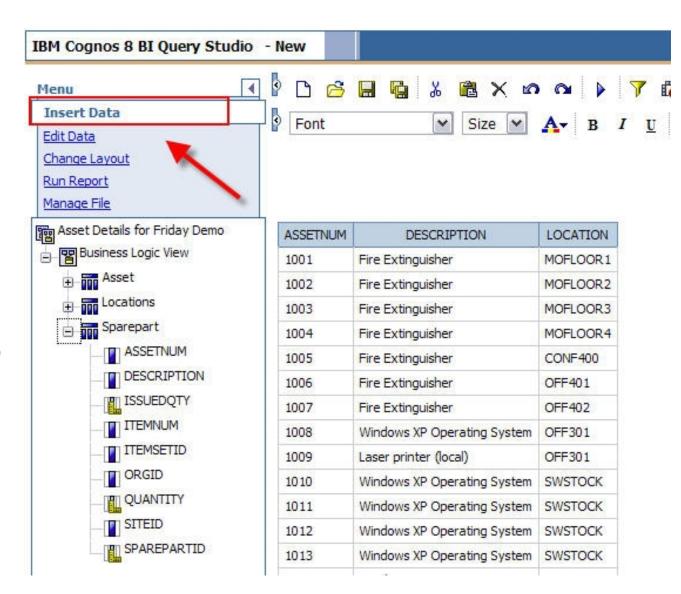
Page 1	of 1 14 4	i ф фi		⇒ 🖦							
Tivoli Approve	ed Bedford POs									1	BN
	Site: BEDFORD				Company:	VERIZON					
PO	Description	Status	Follow-up Date	Total Cost	Line	Line Type	Item	Item Type	Item Description	Quantity	Line
1084		WAPPR		105,00	1	MATERIAL		zeem type	rem bestription	100,00	10
1085	Longfellow Project Adds	WAPPR		156.45	1	ITEM	560-00	ITEM	Tubing, Copper-1 In ID X .030 In Wall	100.00	14
	Site: BEDFORD				Company:	SWKING					
			Follow-up								
PO	Description	Status	Date	Total Cost	Line	Line Type	Item	Item Type	Item Description	Quantity	Line
1077	Adobe Software Contract	APPR		12,300.00	1	ITEM	ACROBAT_8	ITEM	Adobe Acrobat Version 8	100.00	12,30
	Site: BEDFORD				Company:	occouc					
	Site: BEDFORD				Company:	OFFROS					
РО		Status	Follow-up Date	Total Cost	Line	Line Type	Item	Item Type	Item Description	Quantity	Line
1026	898 per Max	WAPPR		46.00	3	ITEM	230-00	ITEM	Elbow, Street- 90 Deg, 1 In		
1026		WAPPR		46.00	2	ITEM	231177	ITEM	Guide- Carton Machine	2.00	2
1026	Items for Project IKL- 898 per Max	WAPPR		46.00	1	ITEM	231177	ITEM	Guide- Carton Machine	1.00	1
	Site: BEDFORD				Company:	KENNEDY					
			Follow-up								
		Status	Date		Line	Line Type	Item	Item Type	Item Description	Quantity	Line
РО						ITEM	560-00	ITEM	Tubing, Copper-1 In ID		
1021	DJIO-Rev1 Project	WAPPR		0.00					X .030 In Wall		
1021	DJIO-Rev1 Project Hardware Items for Bob	WAPPR		6.19	2	ITEM	0-0031	ITEM	Elbow, Street- 1-1/8 In X 90 Deg		
1021 1022 1022	DJIO-Rev1 Project Hardware Items for Bob Hardware Items for Rob	WAPPR APPR APPR		6.19	1	ITEM ITEM	0-0031 900810	ITEM	Elbow, Street- 1-1/8 In X		



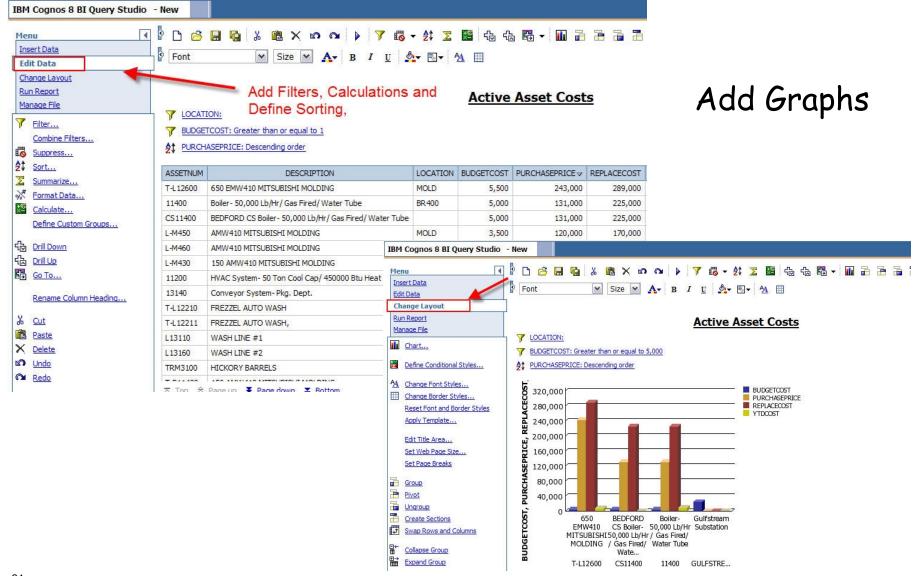


Creation: Access only from Cognos

Build content for ad hoc report by selecting fields made available from Cognos package (Published ROS)



Add Filters, Calculations and Define Sorting

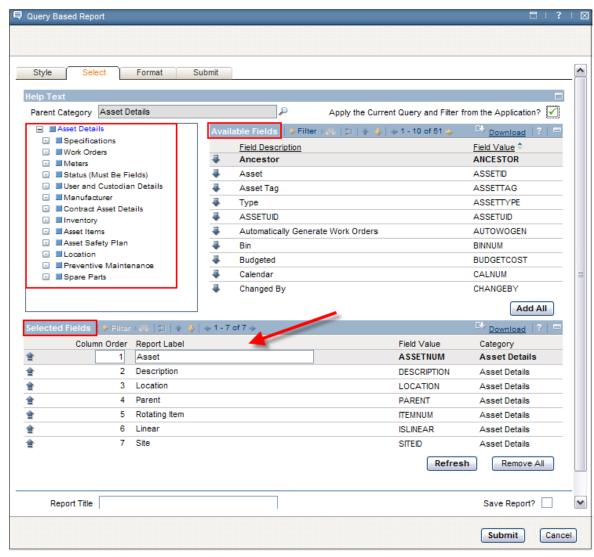


Creation



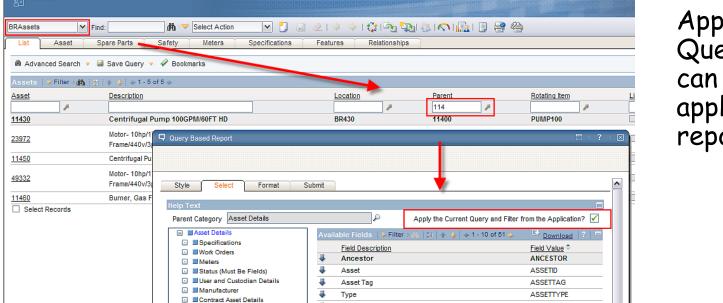
Access only from Maximo

Utilize tabs to create inputs for report.
Define type of report on Style tab. Choose fields on Select Tab from made available by ROS.



Continue to Build Maximo Ad Hoc Report

Comparison



ASSETUID

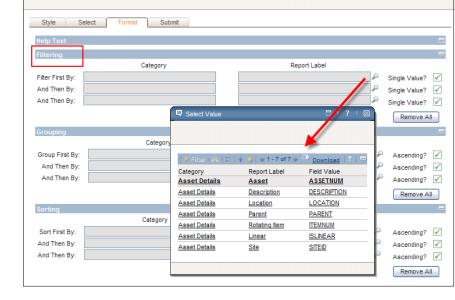
Automatically Generate Work Orders

Application's
Query and Filter
can be directly
applied to ad hoc
report

Define parameters, sorting and grouping

■ Inventory■ Asset Items

■ Asset Sefety Plan



Ad Hoc Reporting Comparison

Creating Ad Hoc Reports

	V7 Ad Hoc (QBR)	Cognos Query Studio*
Ad Hoc Features - Multiple tables, sort, group, edit, parameters		
Can add graphs, calculations		
Create report view and define locations		
Direct utilization of application query		
Create/Execute within V7 applications		
Only available from Cognos Portal		
Same V7 UIMinimal training required		
Export to report developer tool for additional manipulation		

Reference Materials

Report	Comparison of Embedded	http://ibm.co/xJKa6D
Comparison	BIRT reporting to	
	Integrated Cognos	
	reporting	
Presentation	Direct Link to tool	http://ibm.co/M13JUV
Download	comparison presentation	

CONCLUSION:

Utilize Features and Reporting tools

....most important to your users and business needs!

Agenda



Report and Data Options



BIRT Reporting

Configuration

Design

Development

Administration

Execution

1. History

2. Reporting Options

3. Comparison - BIRT vs Cognos

4. Report Strategy

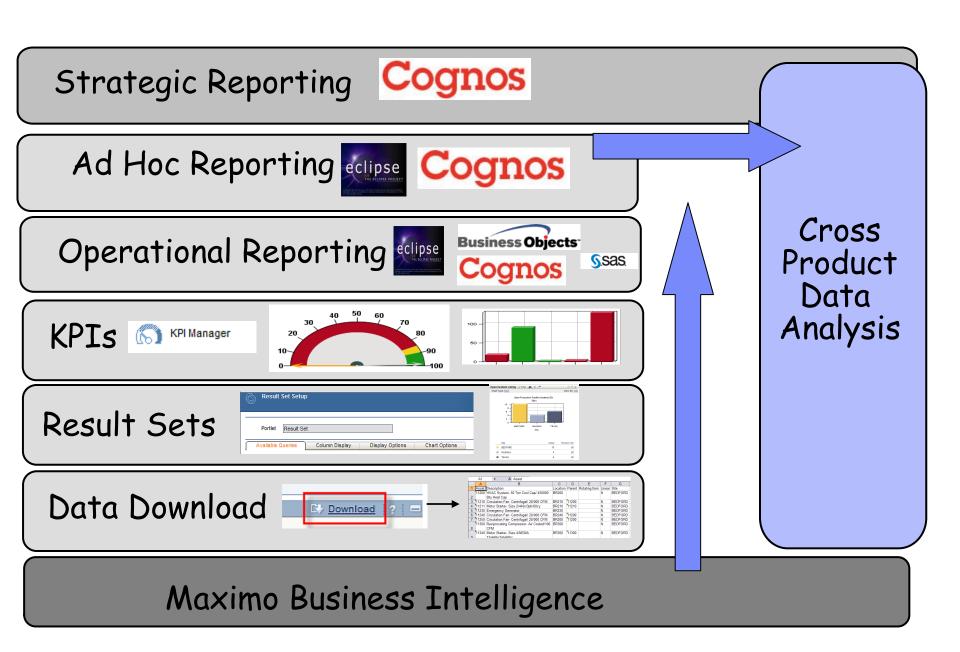
5. Data Analysis Options

Cognos Reporting

Reference Materials and Questions

Direction: Continue Open Reporting Strategy

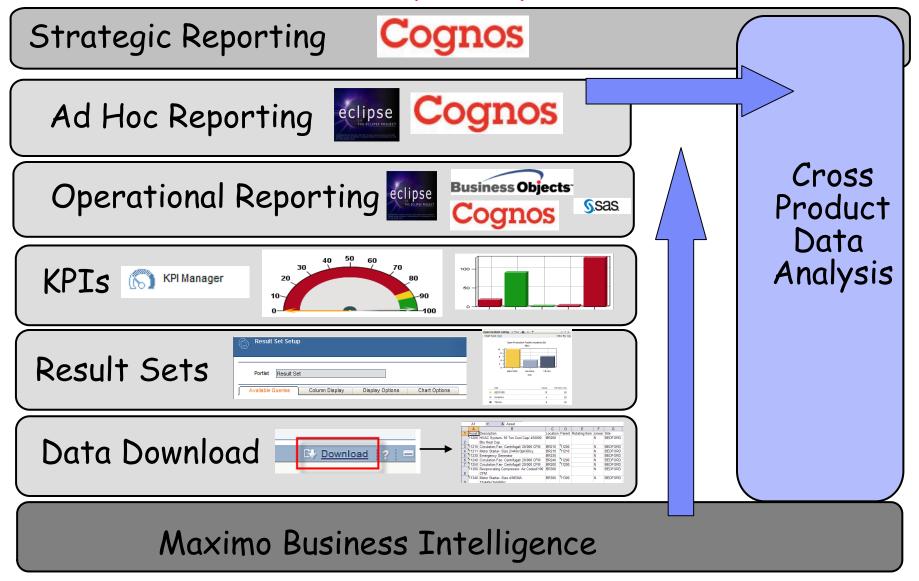




Upgrade Recommendation....

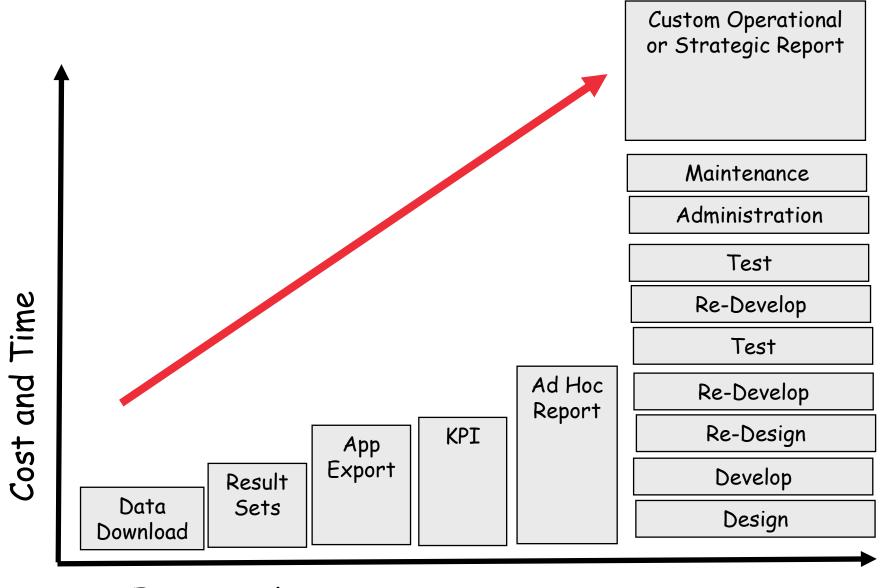


Evaluate All Data Analysis Options!



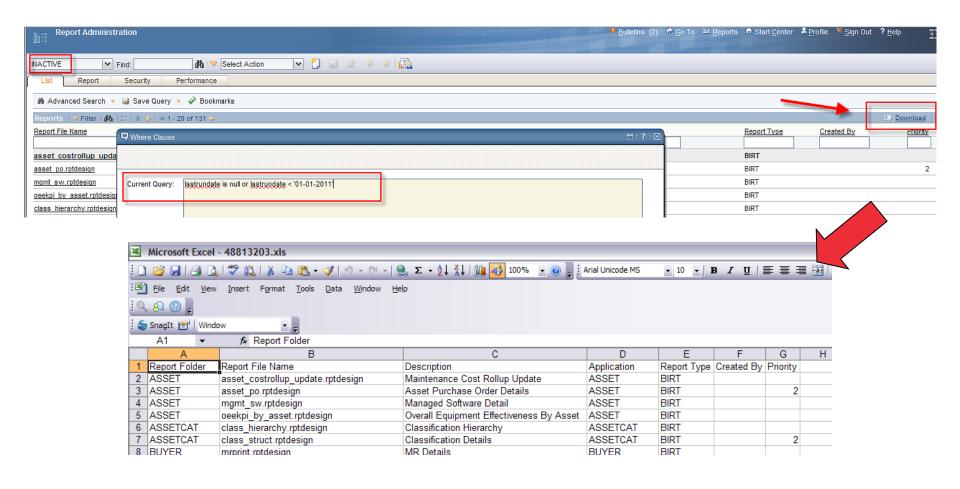
Data Analysis: Cost vs Functionality Comparison



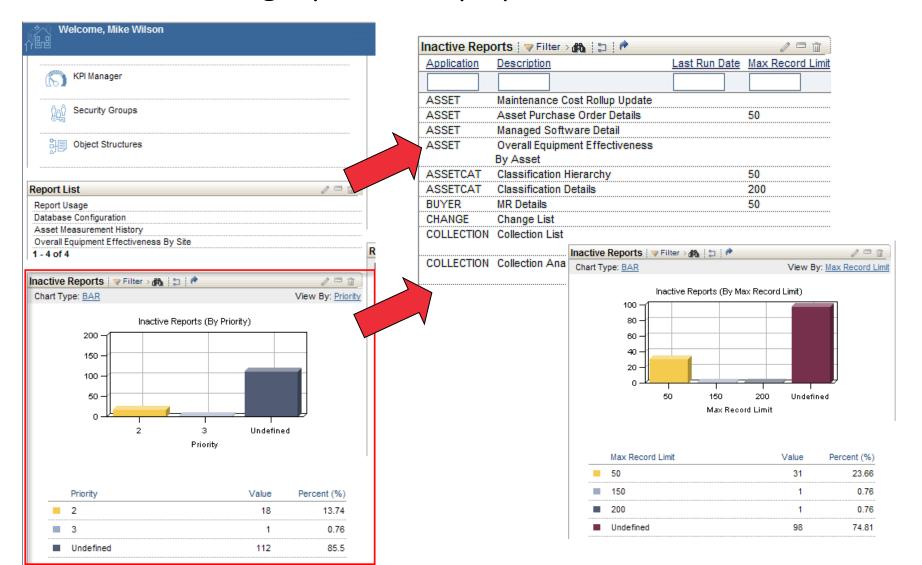


Functionality

Maximize use of application's filter and/or query to immediately download your results for additional analysis in Microsoft Excel.

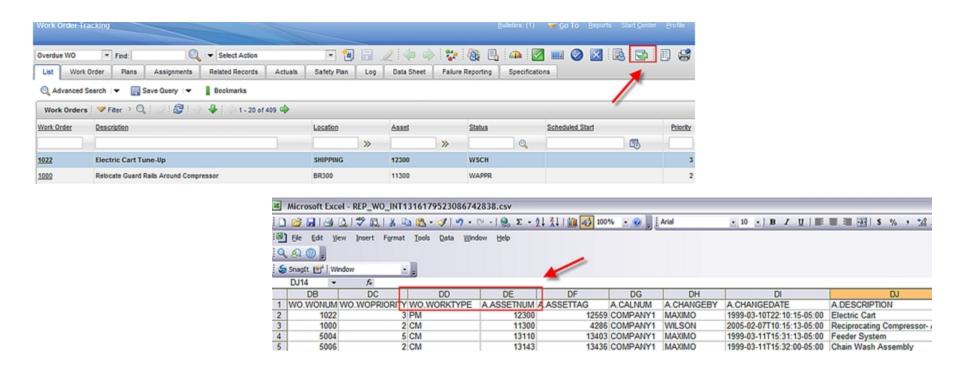


Using the same or different application query, you can enable a set of fields or graph for display on the Start Center.



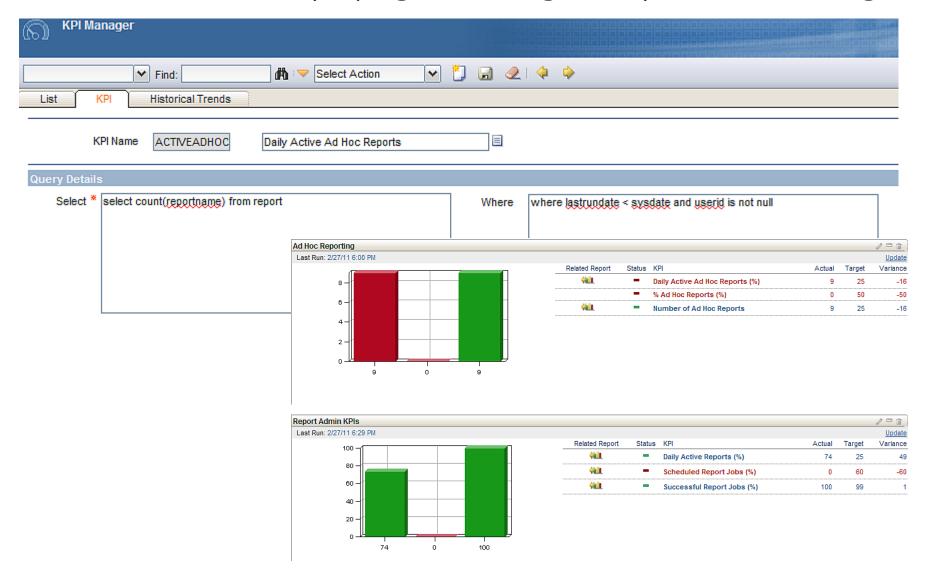
Enables you to export multiple database objects and attribute fields using your application's filter and/or query

Capitalizes on the power of an object structure



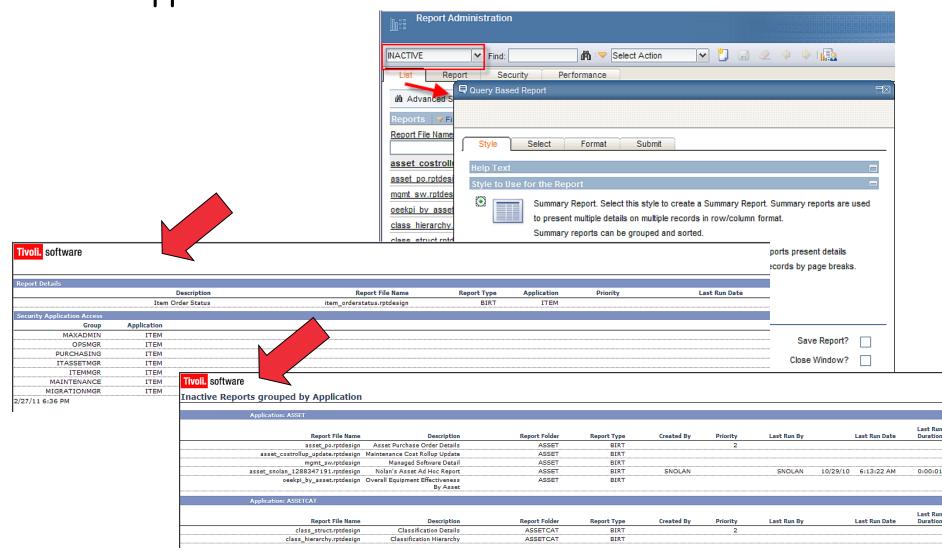
*Base feature in 7.1, significant enhancements 7.5

Visual indicators displaying status against predefined targets.

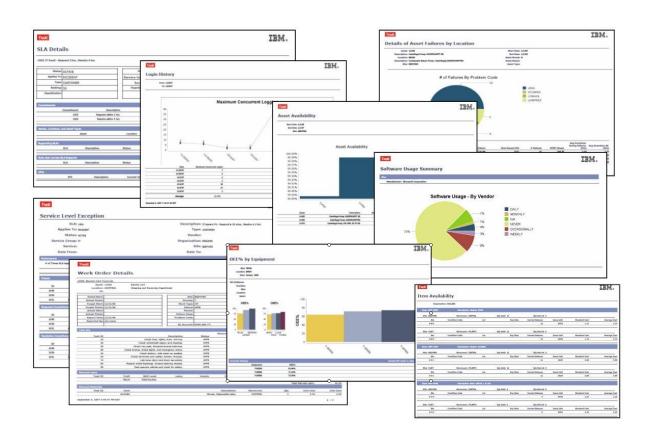


Data Options

Enables users to create their own reports from within the various applications



Custom reports. Includes day-day detail reports, period ending analysis reports, or those with complex graphs, calculations or unique scenarios (ex. Database updates).



Reference Materials: Report Upgrade Resources Report Upgrade Planning Guides

Version 7.1	Details Data Analysis and Report Options for V7.1	http://ibm.co/LszhDD
Version 7.5	Details Data Analysis and Report Option for V7.5	http://ibm.co/IfDdZF

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Guide

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Cognos Report Integration	
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Report Studio	

Reference Materials: Report Upgrade Resources



Report Wiki Pages

Data Analysis	Highlights Data Analysis Options	http://ibm.co/KONsRV
Version 7.1	Report Options for V7.1	http://ibm.co/OXfH77
Version 7.5	Report Option for V7.5	http://ibm.co/NWWUUw

Version 7.5

- 1 Version 7.5
- 2 Version 7.5 Open Reporting Architecture
- 3 Version 7.5 Upgrade Planning Guide
- 4 BIRT Reporting
- 5 Cognos Reporting
- 6 External Report Integration (ERI) applications, providing a seamless integration for your users.
- 7 Open Database Platform (ODP)

BIRT Reporting

BIRT, Business Intelligence and Reporting, is the embedded reporting tool in the Version 7.5 Releases. As the embedded reporting tool, it enables the deepest levels of integrations throughout the various Maximo

Reporting with BIRT in Version 7.5 includes a variety of features including one click direct printing, emailing, scheduling, report usage and montioring and 100's of delivered reports accessible here. Additionally, ad hoc reporting is available for your business users to create their own reports by selecting fields, sorting, grouping, filtering. These reports can then be shared with others, emailed, scheduled and edited to meet changing business needs.

A snapshot of the available BIRT Reporting User documentation is detailed below. To find the full listing of documentation, including information on how to customize reports to meet your individual business needs, designing reports, configuring performance enablers and logging, reference this url: http://ibm.co/pxUyp68 or click here8

Document Name	Description	Version	Reference Number	Revision #	Last Posting Date
V75 ReportBooklet	Contains listings, file names, descriptions, details on parameters, formatting (grouping, sorting) and a pdf copy of each of the OOB (Out of the Box) Delivered Reports.	7.5	1497942		4/28/2011
V75 Report Feature Guide	Details how the embedded report engine is utilized, including a review of the file structure, installation and database structure. Includes information on Security, Scheduling, Administration, Queuing, and Property Files.	7.5	1498433	2	5/14/2012
V75 QBR Ad Hoc Reporting	Details how users can Create and Execute Ad Hoc Reports, and the Administrative setup work involved, including how to create Report Object Structures.	7.5	1498285	1	9/19/2011
V75 Report Development Guide	Intended for the Report Developer, contains detailed information and examples on developing reports within Design Tool, database access, parameters, common development techniques like hyperlinks and date formats and various debug features and utilities. Also contains information on installing and configuring the Report Design tool.	7.5	1498572	2	1/30/2012
V75 Report Toolbar Access Direct Print <u>Guide</u>	Describes functionality that can be configured with BIRT Reports to enable their quick display, including Browser View, Direct Print and Direct Print with Attachments. Details report requirements, property files and troubleshooting techniques.	7.5	1498665	3	5/16/2012
V7 Report Localization	Details report localization setup features and functionality. Includes 2 detailed use cases to enable localization for your custom reports.	7.1 and 7.5	1505045	2	6/7/2012

Reference Materials: Upgrade Best Practices



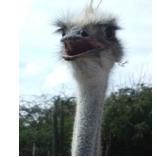
BiLog Best Practices

V7 Data Analysis Options	Before investing in custom reports, recommends you first evaluate the other data	http://ibm.co/Ii50rq
Investing in Report Object Structures	analysis options Details use of ROS in QBR Ad Hoc Reporting, Application Exporting	http://ibm.co/ILbI7y
(ROS) Engage in OnLine Resources	and Cognos Meta Data Highlights SMC and key reporting sites/urls	http://ibm.co/IiRGjq http://ibm.co/Q1HxRk

Asset Management

Connect, learn, and share with the experts

BiLog: The Best...V7 Best Practices Data Analysis Options



Reference Materials: Upgrade Best Practices



Demo	Recap of Reporting Best Practices, including Evaluating All Data Analysis Options	http://bit.ly/Oe9xy3
FAQ	Reporting Best Practices	http://ibm.co/LsN6IG

Best Practices_Are there Reporting Best Practice Recommendations?

<u>V</u>iew <u>E</u>dit <u>A</u>ttachments (0) <u>I</u>nfo

Added by <u>PamDenny</u>, last edited by <u>PamDenny</u> on Mar 27, 2012 (<u>view change</u>)

Labels: <u>report fags_pulse2012</u> <u>EDIT</u>

During the Pulse Reporting Presentation, three Reporting Best Practice Recommendations were made, which included:

1. Evaluate All Data Analysis Options

Within the Version 7 Portfolio, there a number of different features you can utilize to analy: non-reporting data option, can be a very streamlined, efficient way to provide this data to

- Data Download
- Result Sets
- Application Exporting
- Key Performance Indicators (KPIs)
- Ad Hoc Reporting
- Custom Operational Reports



Agenda



Report and Data Options

BIRT Reporting

Configuration

Administration

Design

Development

Execution

Property Files, Cron Tasks, Database Objects

Cognos Reporting

Reference Materials and Questions

V7 BIRT Reporting Features



Immediate	Printing	Cluster	Environment
Direct Print	Export to File	Cron Schedule	Reporting Dbase
Print Attachments	Scheduling	Prop Settings	BROS
Report Viewer	Email File	Parm Localization	Platform Support
QBR Creation	Email URL	Label Localization	Queuing
Public QBRs	View Schedules	Data Localization	Record List Portlet
Edit QBRs	Edit Schedules	Time Zones	Extending QBRs
QBR Filters	QBR Groupina	Schedule Only	Schedule Only
Graphs, Charts	QBR V7 Reporting ority		Reserve Processing
Export Files	QBR	y Order	Record Limits
Upgrades	Calculations	Cloned Apps	Schedule Limits
Tool Configuration	Logging Features	Multi-Apps	Import Files
Database Access	Hyperlinks	Access Points	Report Access
SQL Statements	Database Updates	Parameters	Usage
Templates	Grouping	Data Restrictions	Maintenance
Custom file & Directory	Hierarchies	Where Clause	ROS Cardinality
Property Files	Rich Text Format	Delivered Reports	ROS Relationships

Report and Data Options

BIRT Reporting

Configuration



Administration

Design

Development

Execution

Key Features

- 1. Architecture
- 2. Installation
- 3. System Configuration
- 4. Reference Materials

Cognos Reporting

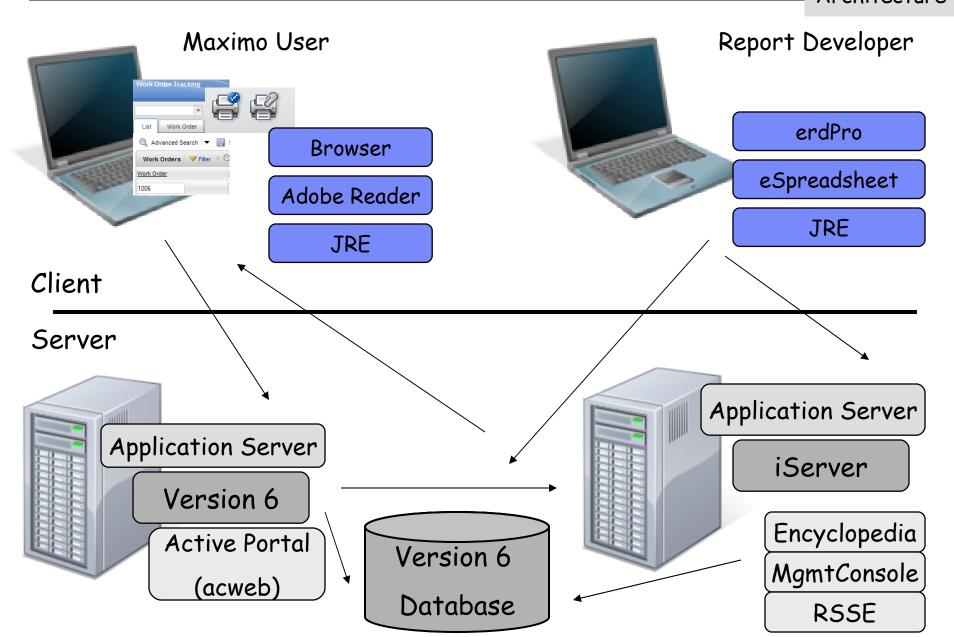
Reference Materials and Questions

V7 Report CONFIGURATION KEY Features

- Increasing Configuration Options
 Single/Multiple Report Server Environments
 Off loading of Report Scheduling Functionality
 Ease of Reporting Database Configuration
- 2. Elimination of Separate Report Installation and Configuration
- 3. Utilization of Open Source Reporting Tool Flexibility in Data Sources

	Version 6x	Version 7
Architecture	Separate + Embedded	Embedded in V7 → Capitalizes on Maximo Functionality
Installation	Separate iServer Install, Configuration, Encyclopedia, Licensing	No separate install or Repository
Licensing	Maximo database only + Can no longer extend reporting usage (Dec 2010)	Open Source. Can utilize multiple data sources
Separate Report Server?	Yes	Configurable via BROS
Secondary Datasource	Configurable	Automated in Report Admin App

Configuration
Architecture



V7 BIRT Reporting Architecture

Architecture Report Developer Maximo User Eclipse Browser Adobe Reader BIRT Designer **JRE JRE** Client Server **Application Server** Version 7 Version 7

Database Eclipse Report Design Files BIRT Engine **BIRT Viewer**



V6-V7 Key Architecture Differences

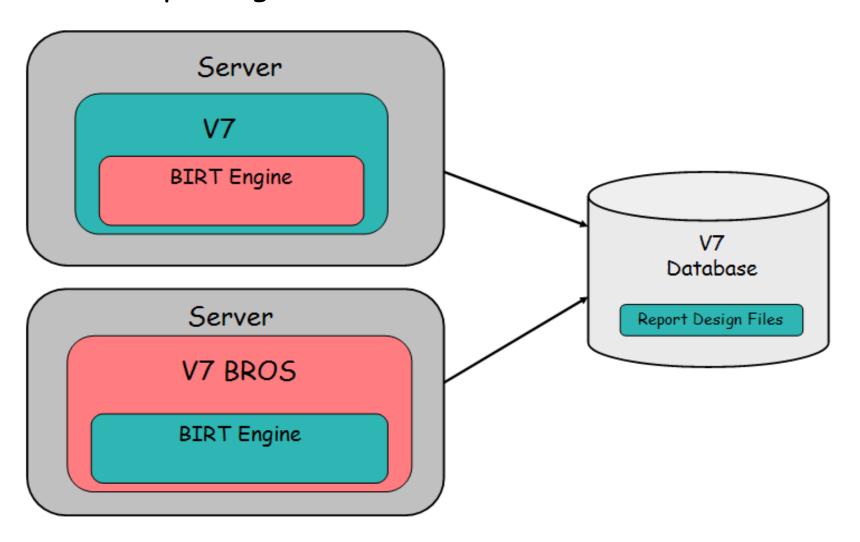
	Version 6	Version 7
Report Server	Separate from Maximo	Included in Maximo
Report Viewer	ACWEB needs to be deployed on Maximo server	Automatically embedded in Maximo
Security Groups	Held in Actuate Server via RSSE Synchronization or LDAP	Single location – Maximo Database or LDAP
Report Repository	Encyclopedia on Actuate server	Maximo Database
Administration	(1) Actuate Management Console + (2) Maximo Report Administration	(1) Maximo Report Administration

V7 Report Server Installation

- No separate install for V7 Reporting
 Reporting installed with Maximo Installed/Deployed
 Only separate step is to generate Report Request Pages in Maximo's Report Administration application
- No build/deployment of ACWEB on Maximo Application Server
- No synchronization of security groups thru RSSE
- No separate Report Server Maintenance and Administration
 Ex. Sysadmin password for ACADMIN

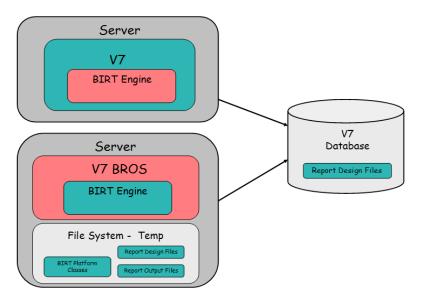
V7 BIRT: BROS (BIRT Report Only Server)

Maximo + Reporting can be on <u>Individual</u> Servers



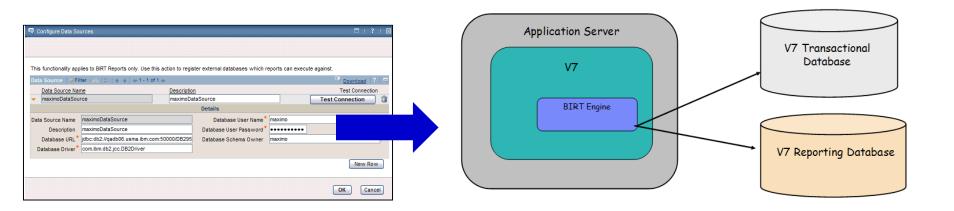
BIRT Report Only Server (BROS) Notes

- 1. Improved Processing for large, heavy report environments
- 2. Install via Maximo Install. Configure via property settings (mxe.report.birt.viewerurl)
- 3. Temporary file requirements diverted to V7 BROS Server
- 4. Direct Print/Direct Print with Attachments and QBR Creation do not execute from BROS
- 5. Setup Details in Report Performance Guide http://ibm.co/NsXMRr



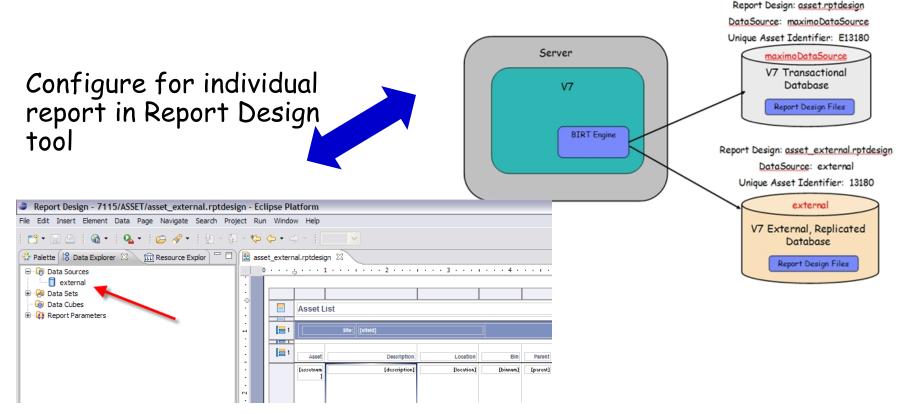
Replicated/Secondary Database

- 1. Requested to off-load report processing from live, transactional database to replicated database
- 2. New action in V7 Report Administration enables quick configuration
 - All reports then execute from Secondary Database
- 3. Configuration details in 'Enabling secondary Database Configuration' available at http://ibm.co/MrqmUe

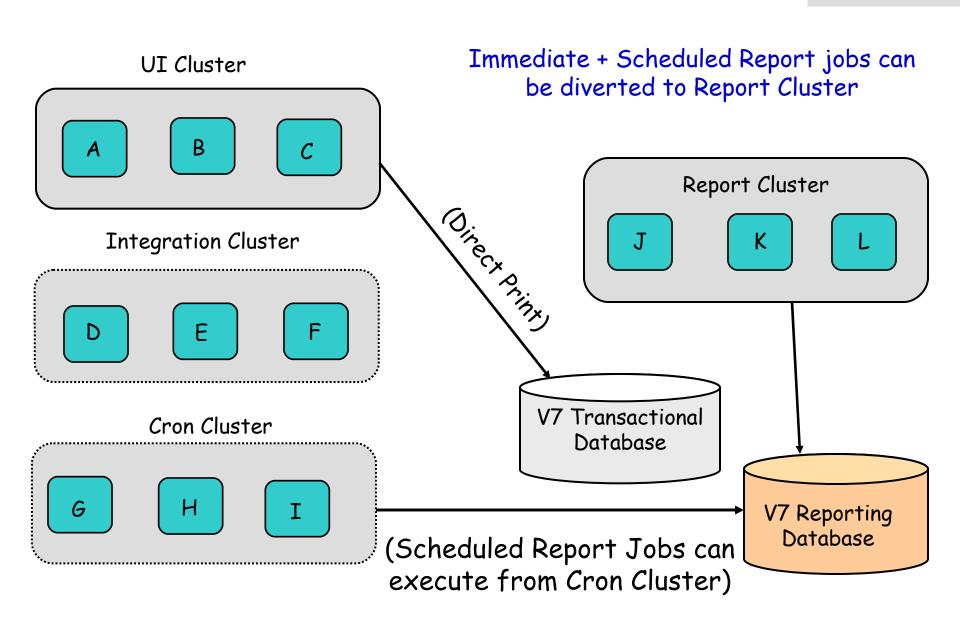


Or......Additional Database Configuration Options

- You can select a subset of reports to execute from 2ndry database (ex. Asset Cost Rollup - Complex Reports)
- Configuration details in 'Enabling secondary Database Configuration' available at http://ibm.co/MrqmUe



Configuration
Options



Reference: Report Performance Guide http://ibm.co/NsXMRr

Reference Materials: Configuration

Configuration

V7 Report Database	How to enable secondary database configuration	http://ibm.co/MrqmUe
V7 Report Performance	Details Performance Enablers and Features	http://ibm.co/NsXMRr
Report Performance Rest Practices	Wiki Page highlighting V7 Performance Information	http://ibm.co/MgpYti

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Report and Data Options

BIRT Reporting

Configuration

Administration



Design

Development

Execution

Property Files, Cron Tasks, Database Objects

Key Features

- 1. Repository, Import
- 2. Security
- 3. Report Object Structures
- 4. Report Administration Application
- 5. Access Direct Print, Report Portlet
- 6. Localization

Cognos Reporting

Reference Materials and Questions

- 1. Single Report Administration/Maintenance
- 2. Capitalization or Maximo Functionality/Processes
- 3. Minimization of different processes for different reports
- 4. Increasing flexibility/usage in ad hoc reporting enablers (ROS vs individual report design files)

V6-V7 Report Repository Comparison Storage location of Report Design Files

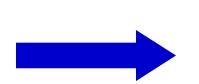
	Version 6x	Version 7
Repository	Encyclopedia	V7 Database
Location	Actuate Report Server	V7 Database
Process to load	(1) Batch Utility	(1) Import Utility
Repository	(2) Individually in	(2) Individually in V7
(Admin/Install)	Management Console	Report Administration
Process to load	(1) Post thru erdPro	(1) Import Utility
Repository	(2) Individually in	(2)Individually in V7
(Admin/Install)	Management Console	Report Administration
Properties File	N/A	Reporttools.properties

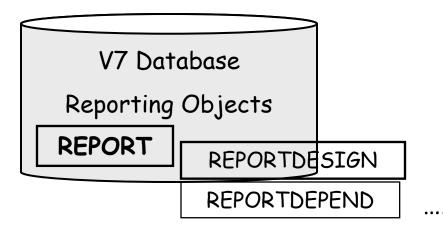
Design Files Executing Jobs Scheduled REPORTDESIGN REPORTJOB	1 1005
DEPORTNESTAN DEPORTTOR TOTAL TOT	
REPORT DESIGN REPORTS CHI	ED
REPORTDEPEND	
REPORTUSAGELOG Reserved Prod	cessing
Parent Object REPORTPROCRES	SERVE
Text Values REPORT	
REPORTLABEL REPORTPROCSO	CHED
L_REPORTLABEL V7 Database Scheduled Report	Output
REPORTLOOKUP Reporting Objects (Email URL)	
L_REPORTLOOKUP Reporting Objects REPORTOUTE	TU
Ad Hoc Design Values (Editing) (Thru 7.5.0.3 Release) REPORTOUTPUT	TCNT
REPORTADHOC	AUTH
REPORTADHOCFIELD Report Data Source	
REPORTDS	uing
Security REPORTDSPARAM	.umg
REPORTAPPAUTH REPORTRUNQU	EUE
REPORTAUTH Report List Portlet REPORTRUN	LOCK
REPORTOSAUTH REPORTLISTCFG REPORTRUNPAR	RAM

Importing Reports into V7 Database Repository

Import

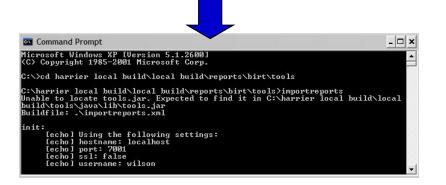
Report Designs, Libraries, and Resource files



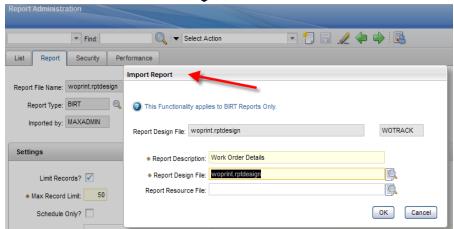


Import Utilities

(All, Application or Single Report)

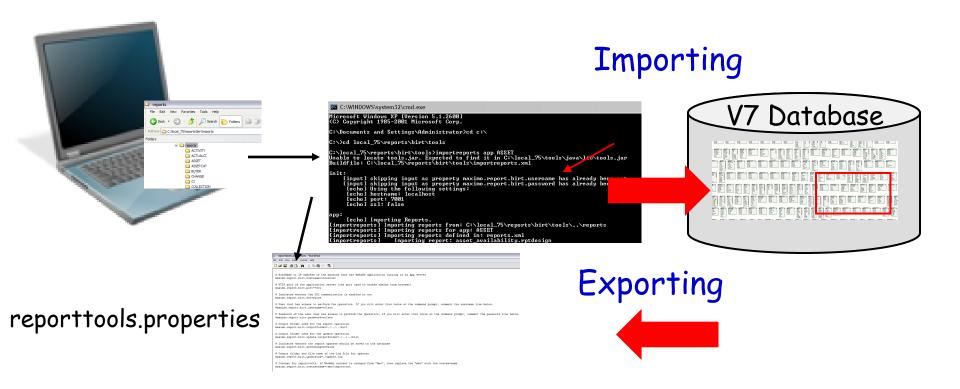


Action in Report Admin
(Single Report File Only)



Import

- 1. Reporttools.properties used to importing/exporting of report design files via command utilities
- 2. Also, enables exporting of files from database to local location for updates/modification
 - Ex. For QBR Extension/Report Enablement
- 3. UN/PW optional. Can enter these values directly in console.



Reference Materials: Repository/Importing

Admin

Guide	User Type	URL
V71 Report Feature Guide	Administrator	http://ibm.co/Q4s8ji
V71 Report Developers Guide	Developer	http://ibm.co/Mv8rjl
V75 Report Feature Guide	Administrator	http://ibm.co/NXBQNU
V75 Report Developers Guide	Developer	http://ibm.co/Lb2bfx
V7503 Report Developers Guide	Developer	TBA

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Set Up: reporttools.properties	74
Import Command Utility	
Export Command Utility	
Export Example	
Additional Export Details	

V6-V7 Security Comparison

V6: Synchronized Maximo Security Groups thru RSSE Report Access set in Actuate Management Console Specific for Unique reporting tool

V7: Single Security Group Repository (Maximo Database)
Report Access set in Maximo Report Administration
Same security settings for all reporting tools
Security Access at Maximo Group Level

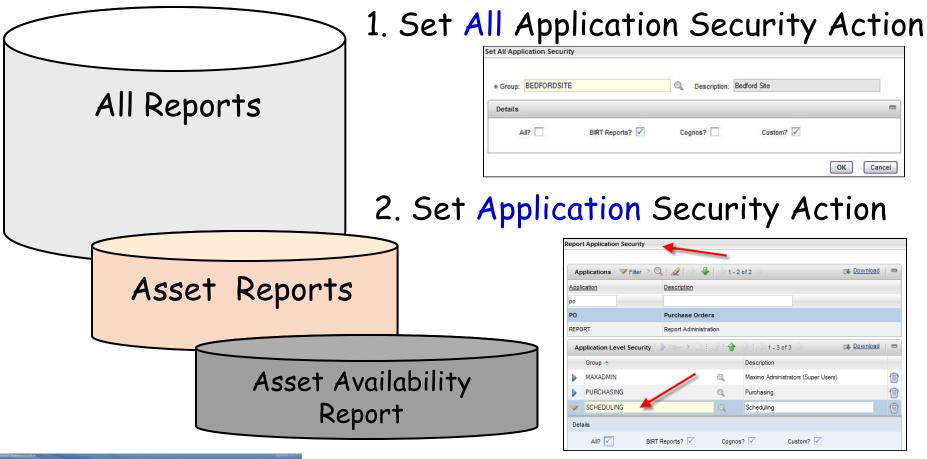
V7 Report Security Levels

		•
	Application Defined	Applies to
Which security groups can run reports?	Security Group - Run Report	All Report Types
What reports can security groups execute?	Report Administration	All Report Types
What data can user see in his report?	Multiple	BIRT Reports
Which security groups can create Ad Hoc (QBR) reports?	Security Group - Create Report	V7 Ad Hoc (QBR) Only
Which security groups who can create reports - can also enable Public report access?	Security Group - Enable Create Report Public Access	V7 Ad Hoc (QBR) Only
Which ROS can security groups access for their individual report creation?	Report Administration - Set Report Object Structure Security	V7 Ad Hoc (QBR) Only

Blue Text - New in V7

Reference: V7 Feature Guides or http://ibm.co/NuDJFh

Defined in Report Administration application

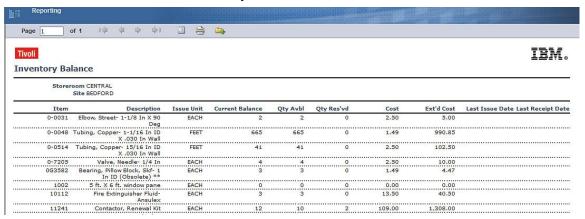




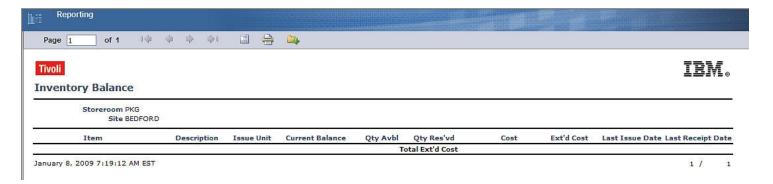
3. Individual Report Security Access set on Security Tab of Specific Report

What data can user see in his report?

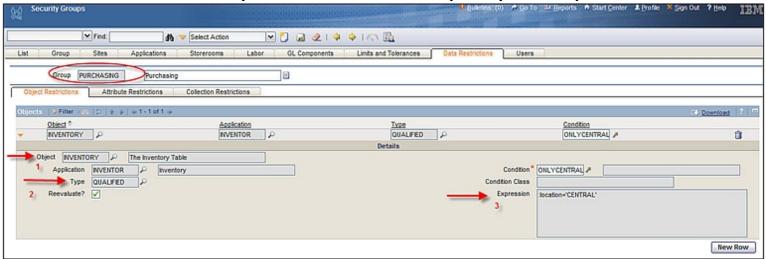
So users see data they have access to.....



And not the data they don't have access to.



- 1. Enabled on main object of application
- 2. Qualified data restriction type
- 3. Conditional Expression uses proper syntax



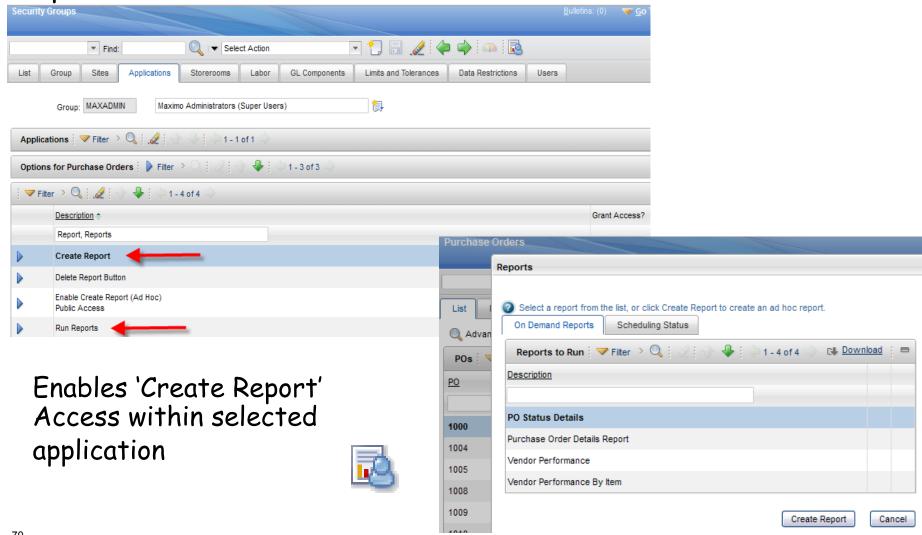
4. Report design file uses main object of application

Step-by-Step Instructions in V71 and V75 Report Feature Guides

Which security groups can create Ad Hoc (QBR) reports?

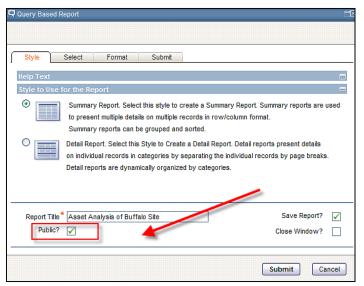
Security

Define in Security Group Application Security Group must have access to both Run Reports and Create Reports



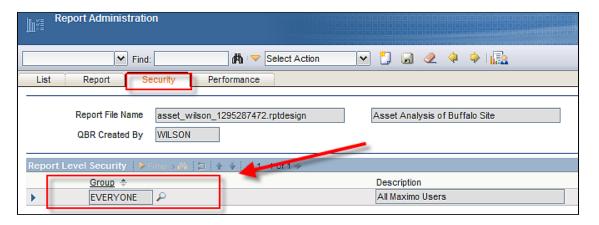
Which security groups who can create reports - can also enable Public report access?

Define in Security Group Application Security Group must first have access to Create Reports

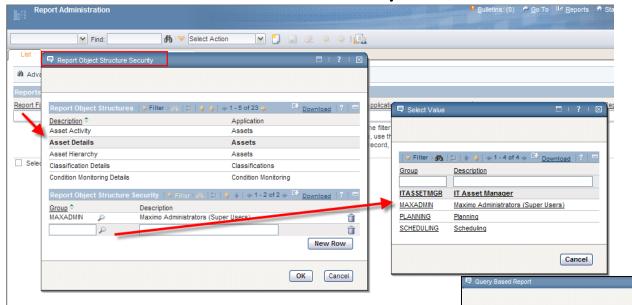


After granting access, creator of report can set 'Public' Access (Similar to application query access)

Resulting QBR report available to EVERYONE security group

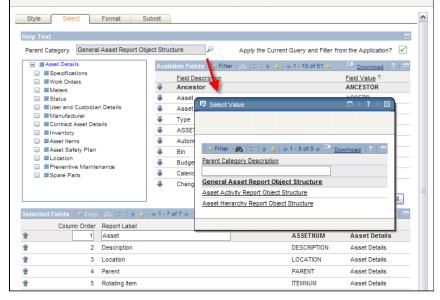


Which ROS can security groups access for their individual report creation?



Specify in Report Administration which groups have access to which ROS

Enables User to select from Multiple Parent Categories (Report Object Structures.) when creating QBR report



Reference Materials: Security

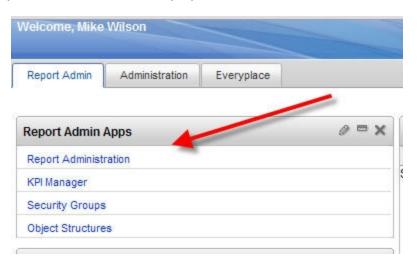
Admin
Security

Guide	User Type	URL
V75 Report Feature Guide	Administrator	http://ibm.co/NXBQNU
V71 Report Feature Guide	Administrator	http://ibm.co/Q4s8ji
V75 Report Developers Guide	Developer	http://ibm.co/Lb2bfx
V7503 Report Developers Guide	Developer	TBA

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Security Notes - Data Restrictions	

V7 Key Reporting Applications



Report Administration: Security, Maintenance, Monitoring

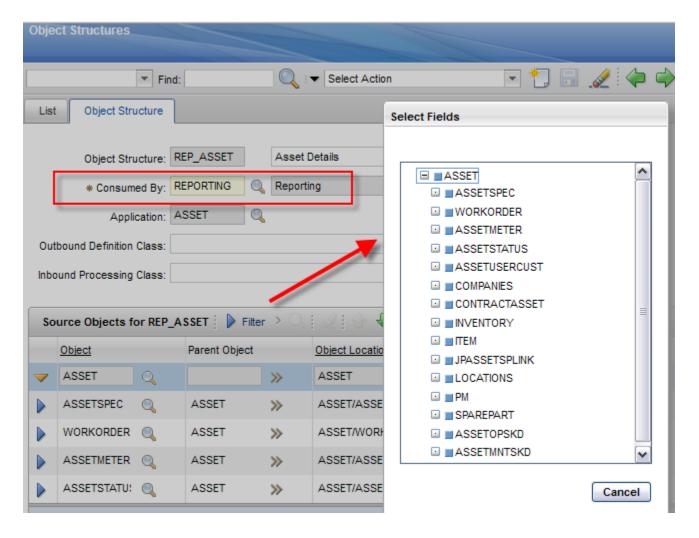
KPI Manager: Defining and Configuring KPIs

Security Groups: Set Run Report, QBR Report Access

Object Structure: Define Report Object Structures (ROS) for QBR, Cognos Meta Data and Application Exporting

Object Structure Application

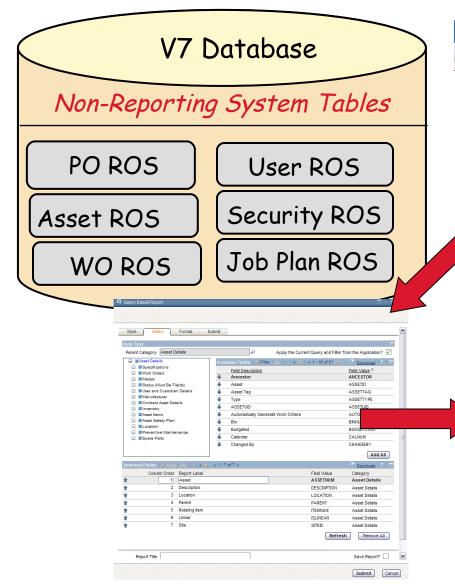
Enhanced in V7 for Reporting

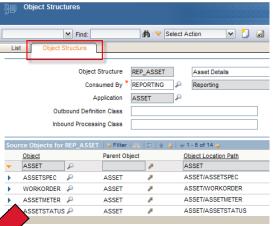


^{*}Depending on products you are licensed for, 20+ ROS delivered OOB

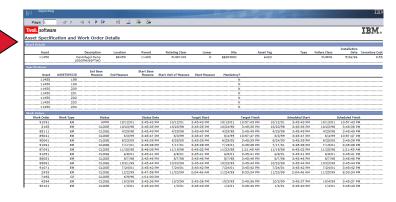
Report Object Structures (ROS)

Enable multi table selection for QBR/Ad Hoc Reporting





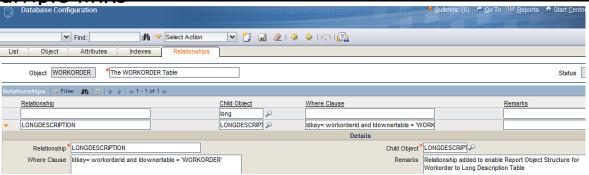
ROS enable Maximo Ad Hoc Reporting thru multiple table creation



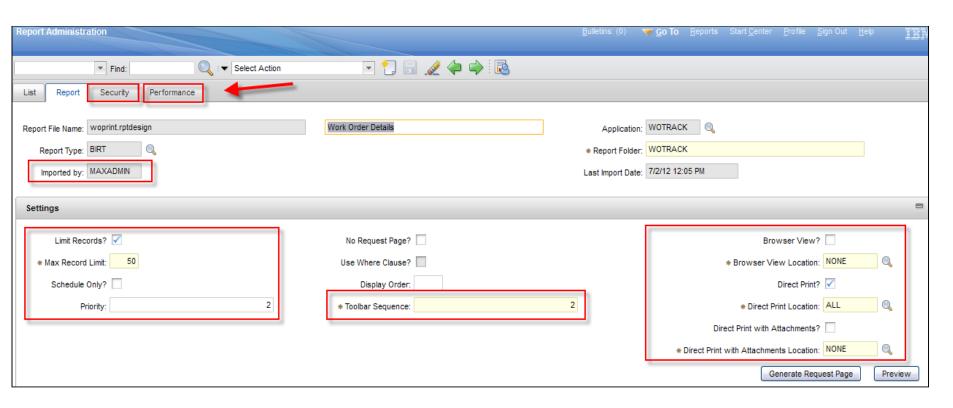
Reference Materials: Report Object Structures

Guide	Description	URL
V75 QBR Guide	Creating ROS Examples	http://ibm.co/NHykq4
V71+ QBR Guide	Creating ROS Examples	http://ibm.co/NfUcOV
Creating/Customizing ROS Wiki Page	Includes examples of adding LD and Audit objects to ROS	http://ibm.co/NCBf8K
Extending ROS for Application Exporting	Example of multiple uses of ROS	http://ibm.co/NCBEYS
Maximizing Use of ROS Best Practice	Bilog detailing benefits of investing in ROS, including multiple links	http://ibm.co/ILbI7y

Wiki Page example of enabling LD for WO ROS



Multiple New Tabs, Attributes to enable single report administration application

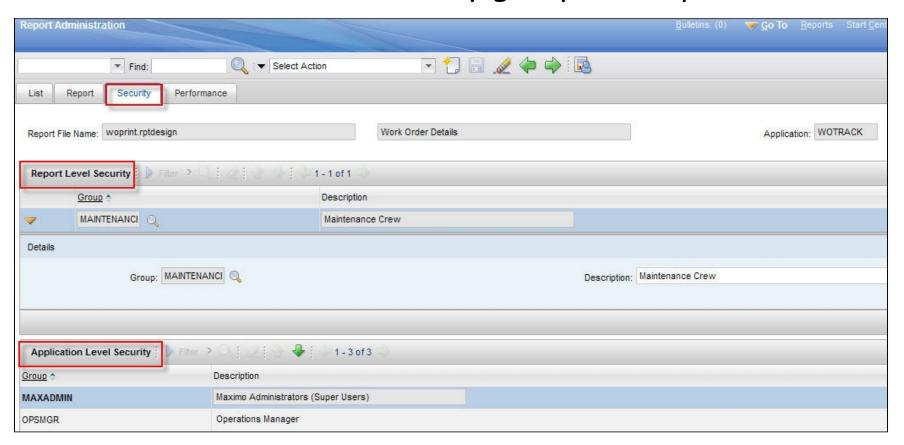


Report Admin - New V7 Security Tab

RepAdmin

Highlights which security groups have access to report at report and application level

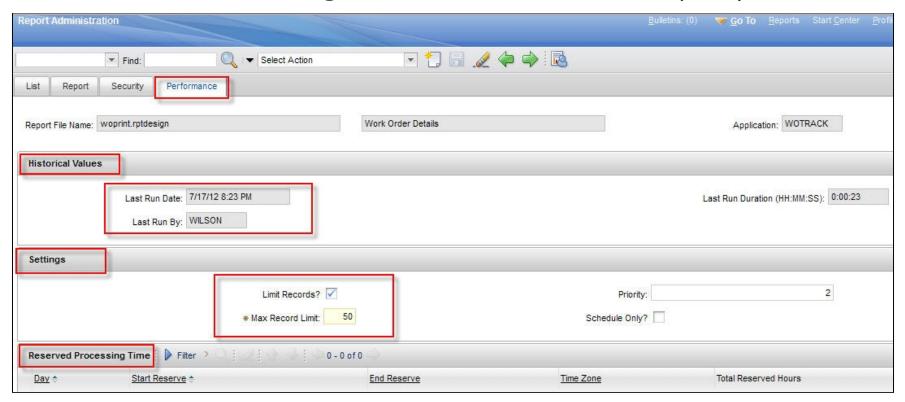
Can add/remove security groups at Report Level



Report Admin - New V7 Performance Tab

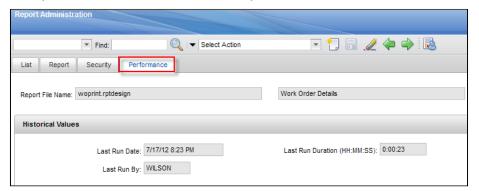
RepAdmin

- Highlights individual report performance and enablers in 3 sections
 - 1. Historical Values: Last Run Values from REPORTUSAGELOG
 - 2. Settings: Performance Enabling Settings, ex. Record Limits
 - 3. Reserved Processing Time: For Schedule Only Reports

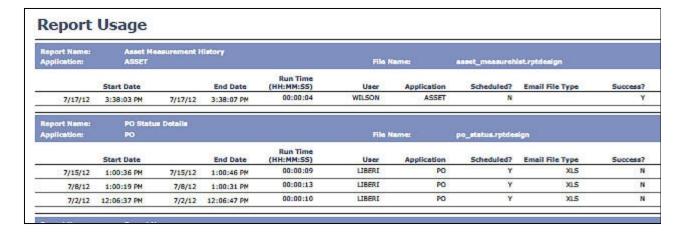


Report Admin - Report Usage

In addition to information on Performance Tab...



Delivered report highlights usage, run times



Notes:

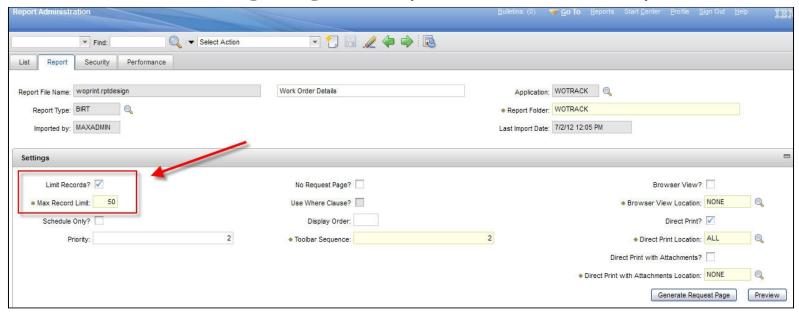
- 1. Usage information held in REPORTUSAGELOG
- 2. REPORTUSAGECLEANUP Cron task clears data from REPORTUSAGELOG for configured time period

Report Admin - V7 Updated Record Limits

- V6: Could define 'Detail' report which enabled report to execute against 200 records or less
- V7: Configurable. Set 'Limit Records' field and you define the Maximo Record limit by report

REPORT. DETAIL and REPORT. RECORDLIMIT

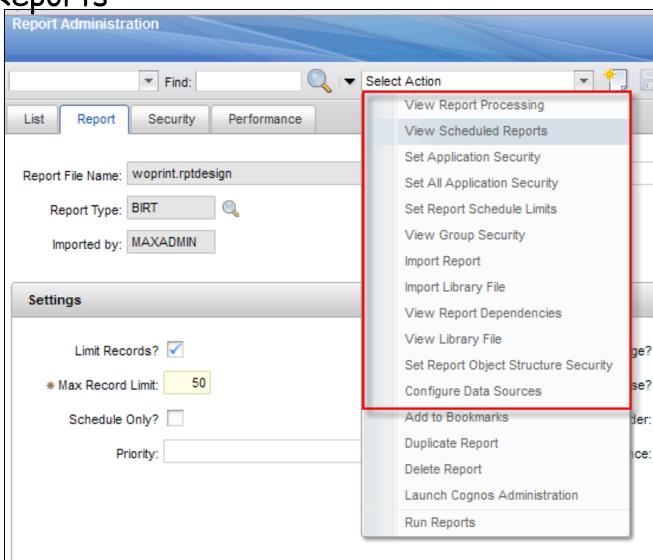
Benefit: Prevents End Users from Executing Large Queries, causing negative performance impacts



V7 Report Admin Action Menu

12 New Actions for Security, Importing, Viewing Processing

and Managing Reports



Admin/Actions

V7 Report Administration Action Menu

Action	Description	Introduced
View Report Processing	Displays reports that are either being processed by the report engine, or are in the queue waiting to be processed	7.1.1.4
View Scheduled Reports	Enables the administrator a view of all the scheduled reports currently in the system.	7.1.1.1
Set Application Security	Grants report security access to all reports within a selected application	7.1.1.1
Set All Application Security	Grants reports security access to all reports for all applications that a security group has access to	7.1.1.1
Set Report Schedule Limits	Enables you to limit the number of report schedule requests your users submit	V7.5.0.0
View Group Security	Displays which applications the selected group has report access to	7.1.1.1

V7 Report Administration Action Menu

Action	Description	Introduced
Import Report	Imports individual report into V75 database repository	V7.1.1.1
Import Library File	Imports individual library into V75 database repository	V7.1.1.1
View Report Dependencies	Displays report files that the selected file is dependant on	V7.1.1.1
View Library File	Displays all library files in V75 database repository	V7.1.1.1
Set Report Object Structure Security	Report Object Structures (ROS) enable Ad Hoc Reporting. This action defines which security groups have access to the individual ROS that can	V7.1.1.6
Configure Data Sources	be available within an application Enables use of non-production database for report execution	V7.1.1.1

V7 Report Admin Action Menu - Additional Info

Admin/Actions

V7x Feature Guides

V75 page 99 http://ibm.co/NXBQNU



Set All Application	Grants reports security access to all	Page 103
Security	reports for all applications that a	
	security group has access to	
Set Report Schedule	Enables you to limit the number of	Page 109
Limits	report schedule requests your users	
	submit	
View Group Security	Displays which applications the selected	Page 104
	group has report access to	
Import Report	Imports individual report into V75	Page 105
	database repository	

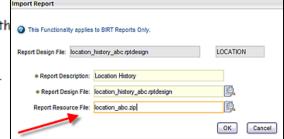
For each action, details functionality and key notes

<u>Individual Report Importing thru Report Administration</u>

If you have modified only a single report, or are registering a small number of reports, you may want to use the Report Administration application to import these report designs. To do this, locate the individual design file, and from the action menu, select 'Import Report'.

Notes:

- Libraries must be imported before report designs. If the report design references a library that has not been imported, the report design will not import.
- If the report references an existing library (MaximoSystemLibrary.rptlibrary) that is already in the database, you do not need to import another copy of that library.
- Importing overwrites the existing records in the database with the new design/and or dependent report files.



Report and Data Options

BIRT Reporting

Configuration

Administration



Design

Development

Execution

Property Files, Cron Tasks, Database Objects

Key Features

- 1. Repository, Import
- 2. Security
- 3. Report Object Structures
- 4. Report Administration Application
- 5. Access Direct Print, Report Portlet
- 6. Localization

Cognos Reporting

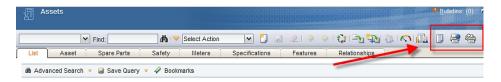
Reference Materials and Questions

Report Access - V7 Updates

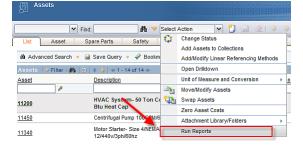


Inside Application

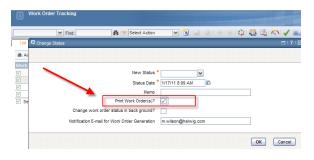
Toolbar Access - Updated V7



Run Reports Action - Updated V7

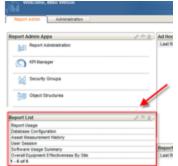


Status Change

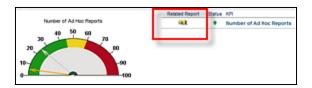


Outside Application

Report List Portlet - New V7



Multi KPI Linkage - Updated V7



Report Menu



V7 Report Toolbar Access (Quick Link Icons)

Updated Functionality in V7

BV = Browser View



Displays report in separate report browser session by clicking on icon from application toolbar

DP = Direct Print



Prints report to your default printer by clicking on icon from application toolbar

DPA= Direct Print with Attachments



Prints report and any printable attachments to your default printer by clicking on icon from application toolbar

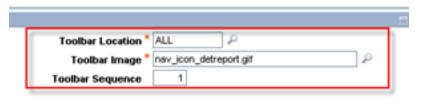
V6-V7 Toolbar Access Comparison

	Version 6x	Version 7x
Direct Link to Report	QL = Quick Link	BV = Browser View
Icon File	nav_icon_detreport.gif	nav_icon_detreport.gif
Database Fields		REPORT.QL, REPORT.QLLOC
Direct Print		DP = Direct Print
Icon File	nav_icon_overview.gif	nav_icon_PrintToDefault.gif
Database Fields	REPORT DP	REPORT DP. REPORT DPLOC
DP w/Attachments		DPA = DP with Attachments
Icon File	nav_icon_printwithattachments.gi	nav_icon_PrintWithAttachm
Database Fields	f	ents.gif
	REPORT.PAD	REPORT.PAD

Toolbar Access - Key V7 Updates

- DP/DPA enabled in V7 with iText (V7.5)*
- 2. No updates required to report design files (Prior override to method/addition of hidden parameter in V6)
- 3. Only print 'printable' attachments in V7**
- 4. Increasing flexibility to configure reports in V7
 - V6 single report configuration vs V7 multi configuration

Report Admin Settings - V6

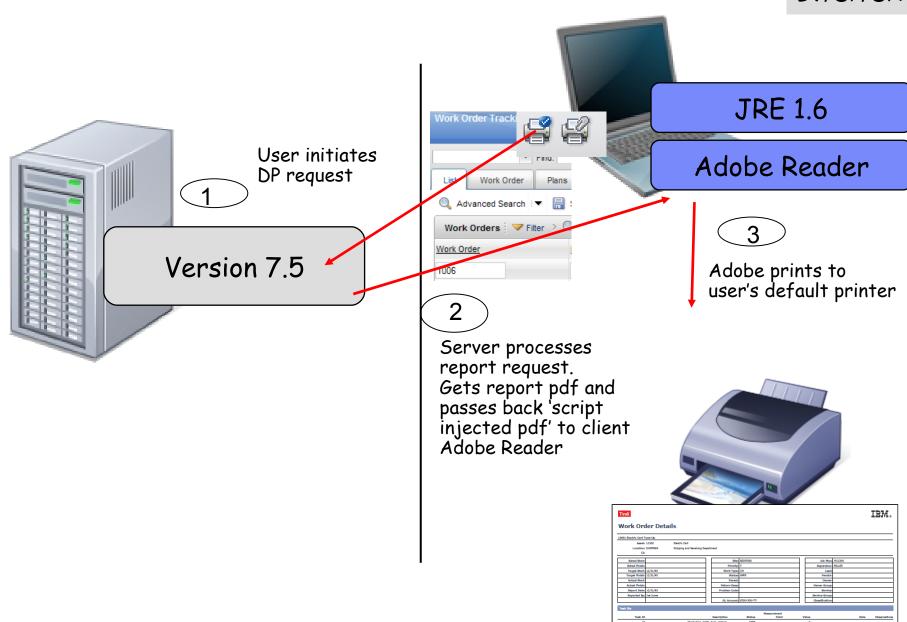


Report Admin Settings - V7

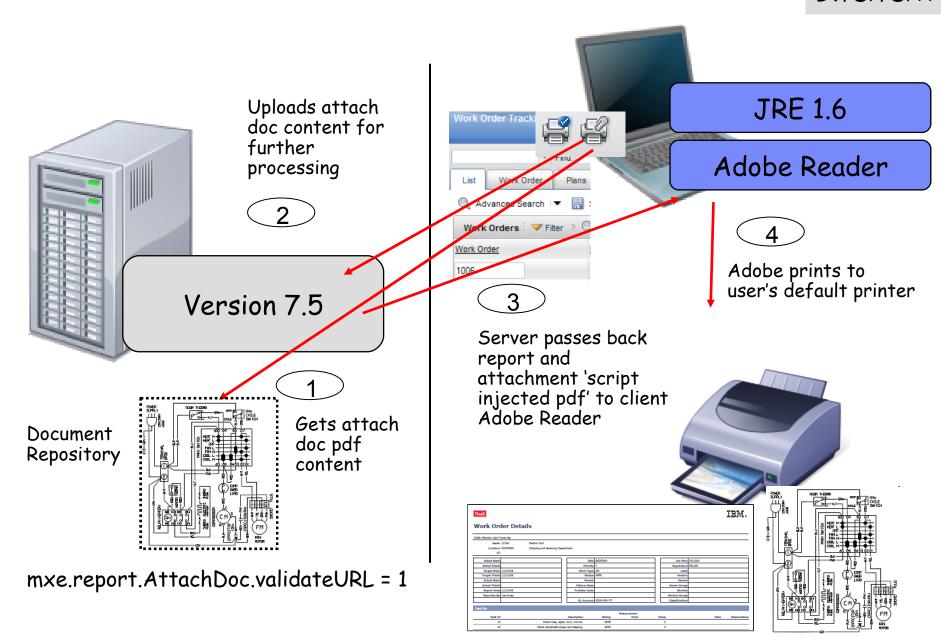


*V7.1 DP/DPA enabled via SmartJPrint ***Printable files include pdf, jpg, txt, Microsoft files etc

Direct Print (DP) Process in V7.5



Direct Print with Attachments (DPA) Process in v7.5



How V7 Report files and attachments printed

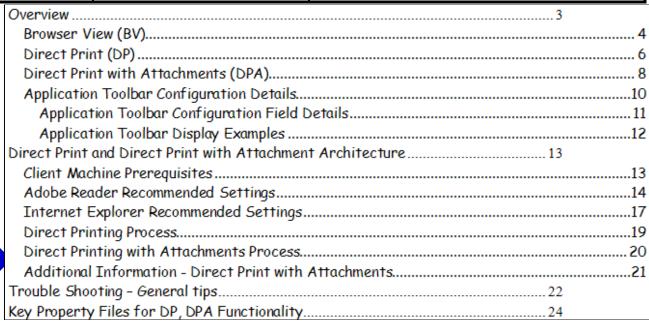
Text thru Client's Adobe Reader
Java Print Functionality
Local, Client Active X Controls
(Not Active X from V7 Server)
**Internet Explorer Only
Firefox does not support Active X

Reference Materials: Toolbar Access

Document/Wiki Page	User Type	URL
V75 Report Toolbar Access	Administrator	http://ibm.co/KgsJfp
V71 Report Toolbar Access	Administrator	http://ibm.co/HcYTXz
V7 Duplex Direct Printing	Wiki Page	http://ibm.co/Hgw8V8
V7 Report Design Guide	Designer	http://ibm.co/00sNf2

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Toolbar Access

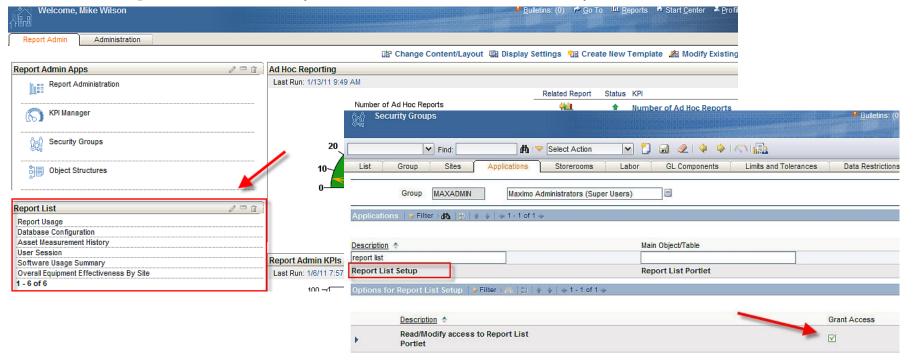


Portlet

Report Access: Report List Portlet

New Functionality in V7

- 1. Listing of favorite reports in Start Center Portlet
- 2. Any Report type (BIRT, Cognos etc) can be configured 3. Configure for reports with User Inputted Parameters



Notes:

- 1. Must enable Security Group access to 'Report List Setup' (Report Portlet application)
- 2. Additional details in V7 Report Feature Guides http://ibm.co/NXBQNU

Localization - Key V7 Updates

Capitalizing on Maximo Functionality/Processes

- 1. Property Files used to enable report design localization
 - -- Consistent process for all report types

(V6: Database Updates for .rox, actuatei18ntext.properties for .dox)

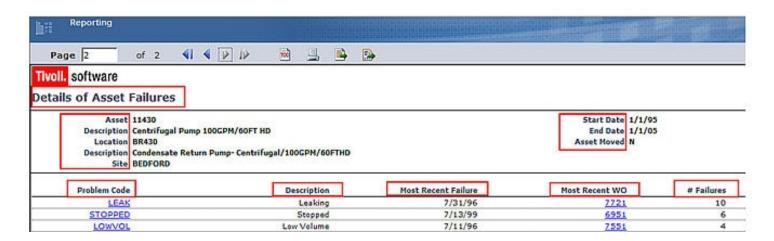
2. Label Tab in Report Administration no longer used in V7

V7 Report Localization

Guide	Description	URL
Localization Guide	Details how localization enabled for request pages, labels and data	http://ibm.co/NA62Rm
Wiki Pages	http://ibm.co/ncGP1h	http://ibm.co/ngoi2T
BiLogLocalization	Links to localization docs and wiki pages	http://ibm.co/POtTIa

Information on how localization works, set up steps and how to enable for your custom reports





Report and Data Options

BIRT Reporting

Configuration

Administration

Design



Development

Execution

Key Features

- 1. Best Practice Recommendations
 - 2. Understand Report Capabilities
 - 3. Understand User Requirements
 - 4. Communicate thru Report Spec
- 5. Report Community

Property Files, Cron Tasks, Database Objects

Cognos Reporting

Reference Materials and Questions

V7 Report Design KEY Features

- 1. Focus on Report Design Phase
- 2. Best Practices to include ALL data analysis options
- 3. Increased sharing of information Ex. Report Design Document SMC Report Community

Understand Report Capabilities

- Report Types
- Parameters
- Content
- System Level Functionality AND

Understand User Requirements

- Purpose of Report
- How it will be accessed within Maximo
- Page Size and Orientation

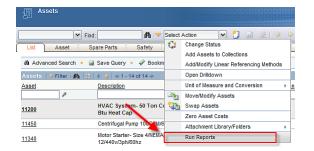
AND

Communicate thru Report Specification

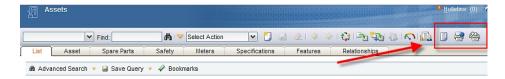
Maximo Report User Access

Inside Application

Select Action - Run Reports



Toolbar Icons



Status Change

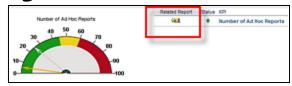


Outside Application

Report Menu



KPI Linkage



Report List Portlet

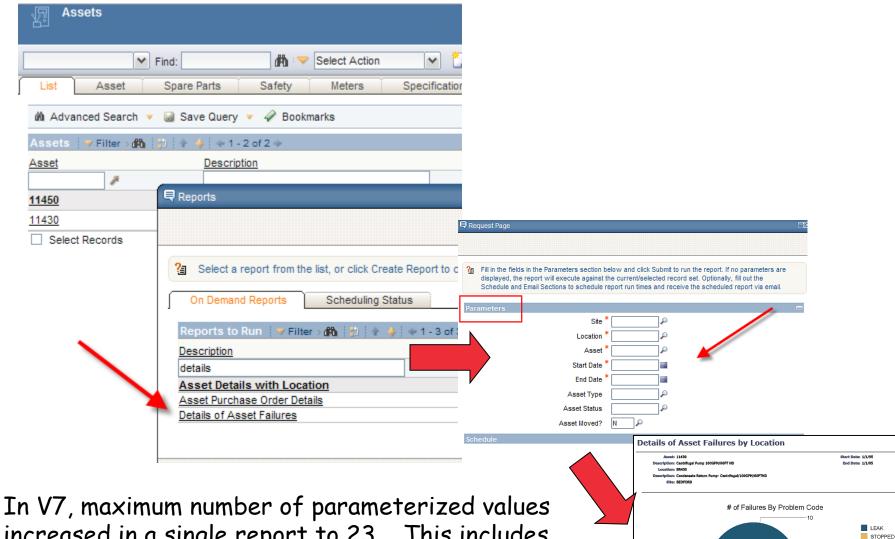


1. Parameterized Reports

2. Application Report (Launch in Context)

3. Both. Parameterized and Application Report

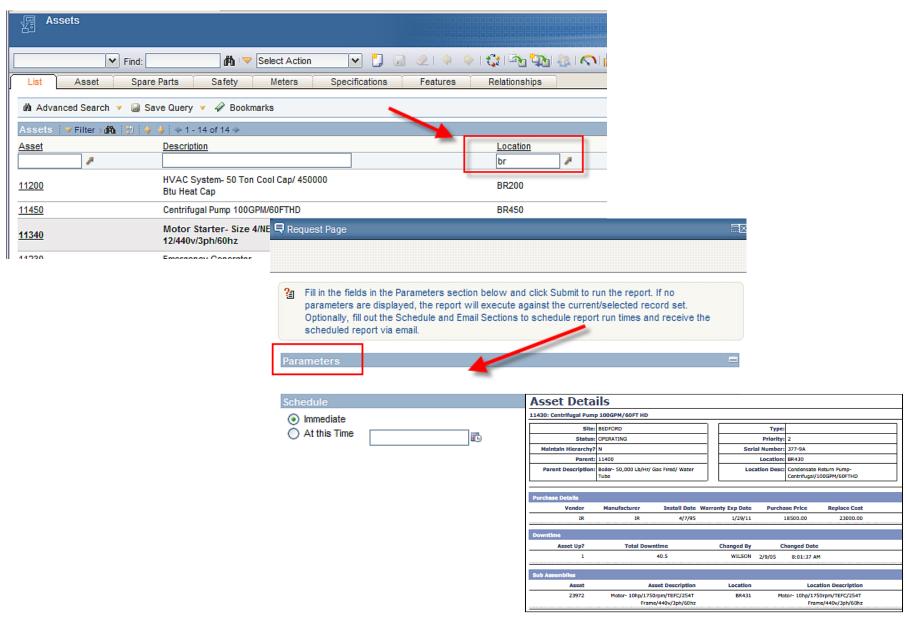
LOWVOL LOWPRES



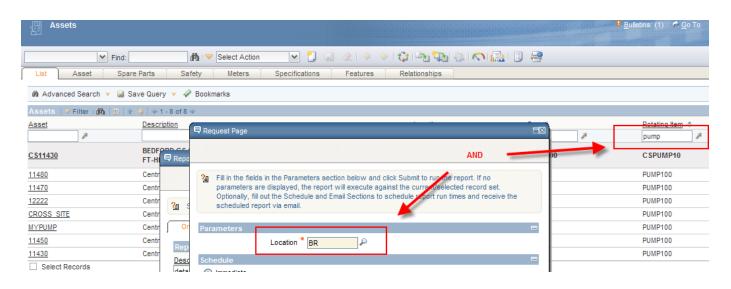
In V7, maximum number of parameterized values increased in a single report to 23. This includes up to 15 Non-Date Time Parameters, and 8 Date-Time parameters.

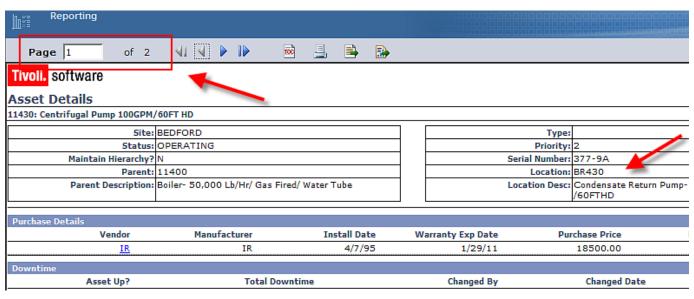
2. Application Report (Launch in Context)

Design



3. Both. Parameterized and Application Report





Parameter Comparison



	Application	Parameterized	Both
Example	Asset Details	Details of Asset Failures	Custom
Number of Parameters	0	8	8
Dynamic - Multiple Query Variations			
Record Limits			
Minimize Clicks			
Browser View			
Direct Print			
Direct Print with Attachments			
Best Access outside Application			

Understand User Requirements

Design

- Purpose of Report
- How it will be accessed within Maximo
- Page Size and Orientation



- Confirms understanding of report requirements
 - -Work thru any design questions before report developed
 - Enables traceability of design changes

- Details report requirements for Report Developer, who
 - May be located in different physical location
 - May have different primary language
 - May be working on multiple reports for multiple users
- Clarifies report requirements for QA/Test

- 1. Specification Details
- 2. Report Details
- 3. Parameters
- 4. Report Content
- 5. Report Mockup
- 6. Testing Considerations

Inventory Balance

Report Specification

ABC Corporation

Specification Details

This document is intended to convey the details and requirements of the report specified above.

Document Control Information



	Name and Title	Company	Date
Author	Pam Denny, Designer	IBM	7/3/12
Approver	Wilson, IT Admin	ABC Company	7/3/12
Owner			



Revision Control Information

Number	Revision Description	Changed By	Date
	Original Release	Pam Denny	7/3/12
1	Added subheader 1 formatting notes	Pam Denny	7/12/12

Breaking down and detailing requirements

Design

Report Details File and Layout Details Details Title Inventory Balance File Name Inventory_balance_abc.rptdesign Application(s) Report Accessed From Inventory Directory Folder Where Report Stored INVENTOR XML File Name reports_abc.xml Properties File Name properties abc.xml Report Type List Report Report Base (Template, Delivered Report, Maximo List Template or Ad Hoc Report) Page Size Letter Page Orientation Portrait

Subheader 1 Fields

Display Value	Field Value	Format Notes
Item	INVENTORY.ITEMNUM	
Description	ITEM.DESCRIPTION	
Issue Unit	INVENTORY.ISSUEUNIT	
Current Balance	Sum(INVBALANCES.CURBAL) where Condition Code is the Same for Item#	Number. 2 decimal places
Qty Avbl	Current Quantity – Quantity Reserved	Number. 2 decimal places
Qty Res'vd	Sum(INVRESERVE.RESERVEDQTY) where Condition Code is the Same for Item #	Number. 2 decimal places
Cost	Dependant on MAXVARS Value. See Note 4 below.	Number. 2 decimal places
Ext'd Cost	Cost * Current Balance	Number. 2 decimal places
Last Issue Date	Max(MATUSETRANS.ACTUALDATE) where MATUSETRANS.ISSUETYPE = ISSUE	Date Only. Short Format.
Last Receipt Date	Max(MATRECTRANS.ACTUALDATE) where MATRECTRANS.ISSUETYPE = RECEIPT	Date Only. Short Format.

Service Management Connect - Virtual Community to Network/Share/Learn from other Maximo Report Users

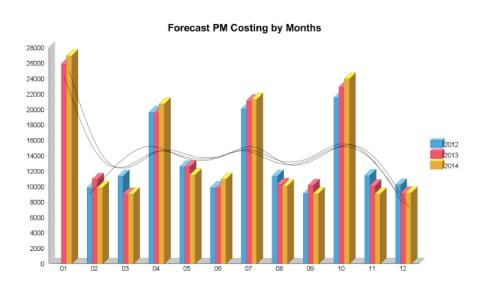
http://ibm.co/zFmoP2

Maximo Reporting

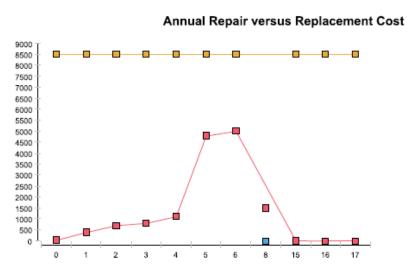
61 members | Updated by 0YH8_Samanth_Prasad | Jul 4 | Tags: analysis, asset_management, bilog, birt, cognos, custom, data, ibmeam, maximo, oob, report, smc_am_reports, v7

Welcome to the Maximo Asset Management Reporting community! Join and use this technical community to connect with other Maximo Report Developers, Administrators Users. You can also share your report examples and best practices - and learn from others! Check out the Files on the left han

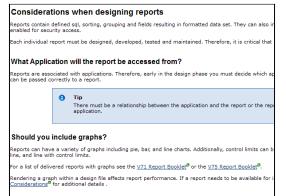
File Sharing



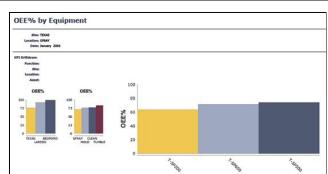
Average Maintenance Cost per year by Rotable Asset Type



Information	Description	Location	
V7 Report Design Guide	Reviews design http://ibm.co/00sNoonsiderations including access, templates and		
V7 Report Page Information	Details Page Size, Orientation and Area	http://ibm.co/MR3rn4	
Report Design Wiki Page	Tips on items to consider when designing a report	http://ibm.co/LVvIKO	
BiLog: FlexibilityReport Parameters Types and Benefits	Recap of functionality including details, links, errors	http://ibm.co/rZKVPO	







Report and Data Options

BIRT Reporting

Configuration

Administration

Design

Development



Execution

Key Features

- 1. Report Design Tool
- 2. File Structure
- 3. Development Process
- 4. Custom Reports

Property Files, Cron Tasks, Database Objects

Cognos Reporting

Reference Materials and Questions

Eclipse Use/Skill Set common among Developers

Report XML Design Files

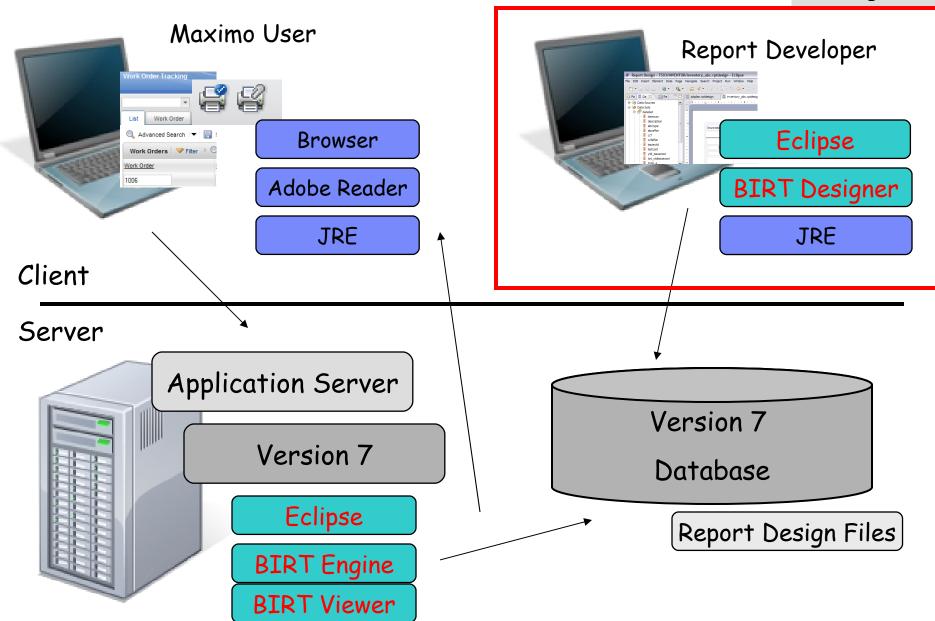
Ease of identifying V7 design file changes

- Proprietary V6 design files prevented this

Multiple Resources Available on How-To's/Customizations

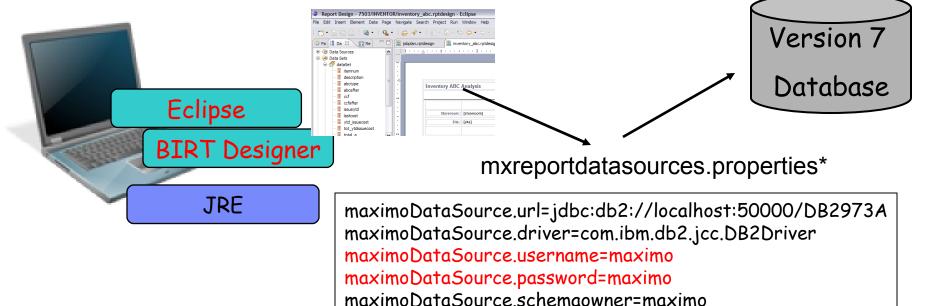
V7 BIRT Reporting Architecture

Designer



- 1. Download Report Designer
- 2. Configure Report Designer for V7x
- 3. Update mxreportdatasources.properties (Optional encryption for un/pw values available in 7.5)
- 4. Access the BIRT Designer

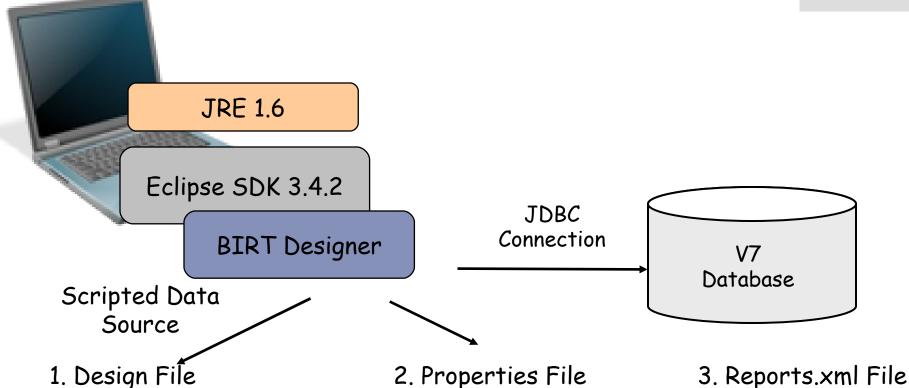
5. Import V7x Project



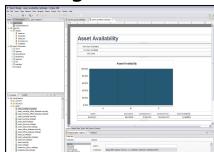
V7 Reporting: Design Files

Development

Files



1. Design File



Defines report content/format

2. Properties File



Details Text Values

For Importing Report

<V75>\reports\birt\libraries

<V75>\reports\birt\reports\app

V7 Reporting: Design File Structure

File Name	File Dependency	Description	Location
jobplan.rptdesign	,	Job Plan List Design File	<pre><v7>\reports\ birt\reports\JOBPLAN</v7></pre>
	MaximoSystem Library. rptlibrary	Maximo System Library	<v7>\reports\ birt\libraries</v7>
	Resources (.gif files)	Logo Files	<v7>\reports\ birt\libraries</v7>
jobplan.properties		Text Values of Column Labels, Title	<v7>\reports\ birt\libraries</v7>
reports.xml		Information on report and its parameters. Used for Importing	<v7>\reports\ birt\reports\JOBPLAN</v7>

Files

V6 vs V7 Report File Comparison

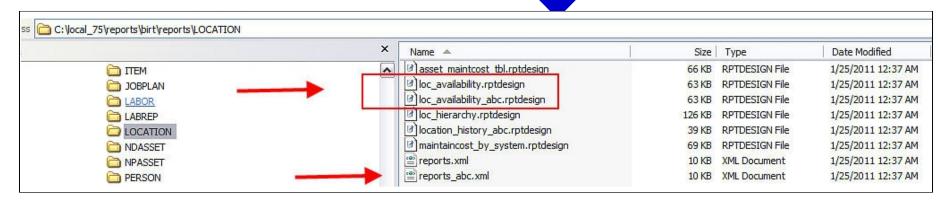
File Name		Version 6	Version 7
Design File	Specifies report content, format	.rod (Report, eQuery) .vts (eSS)	.rptdesign
Compiled Design File	Compiled report file	.rox (Report), .dox (eQuery) .vtf (eSS)	NA
Report Output	Report Results	.roi, .doi	NA
Library File	Reusable Features	.rol	.rptlibrary
Template	Base of report design file	.rod	rpttemplate
Property File	Text Values	Within .rod file	.properties
Resource File	Images	Within .rod file	.zip

V7 Report Development: Custom File Structure

Files

Guide	Description	URL
V75, V71 Report Development Guides	Detailed text, screenshots	http://ibm.co/Lb2bfx http://ibm.co/Mv8rjl
Wiki and BiLog	Additional screenshots	http://ibm.co/Q7Hani
BiLog	And information	http://ibm.co/uuRU8y

File structure recommendations to insure fix packs/releases do not over-write your customizations



Development

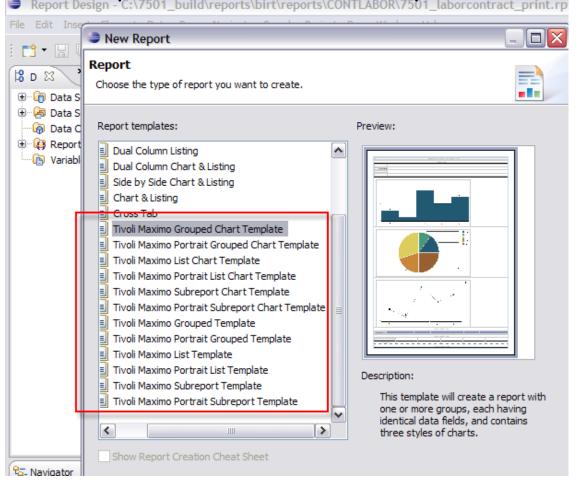
Process

Open Up BIRT Report Designer

Select Maximo report template* (Needed to enable integration)

-Contain scripted data source, library to enable V7 integration

Report Design - C:\7501_build\reports\birt\reports\contlabor\contract_print.rp



^{*}or a copy of delivered report or exported QBR

Top Level Report Development Steps

Process

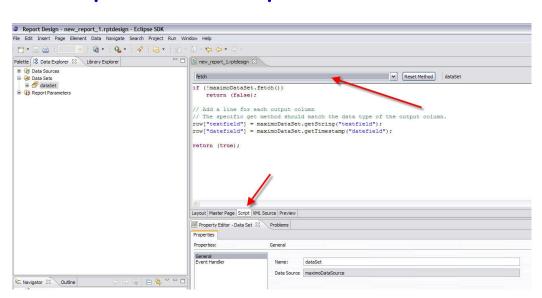
- 1. Specify the query
- 2. Create the output columns
- 3. Update Fetch to map the query columns to the output columns
- 4. Format the report
- 5. Define the property file

Step-by-step example in V7 Report Development Guides

V75: http://ibm.co/Lb2bfx

V7503: TBA

V71: http://ibm.co/Mv8rjl



Maximo-Specific Report Development Details Process

Guide	Description	URL
V75 Report Development	Provide details on installing and configuring BIRT Designer	http://ibm.co/Lb2bfx
V7503 Report Development	Step-by-step instructions of creating first report	Available August 2012
V71 Report Development	Numerous other details including data sets, methods, parameters, hyperlinks and RTF	http://ibm.co/Mv8rjl

Subset of Table of Contents from V75 Report Development Guide



Queries in the Fetch Method59	
Testing for Null60	
Scalar Functions60	
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Bound Parameters	
Unbound parameters66	
Specifying Bound parameters in the report design	
Specifying Unbound parameters in the report design	
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Number of Parameter Values82	
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Optional Parameters83	
YORN Lookup83	
Viewing Parameters	

V7 Report Development: Tips to get Started

Process

Guide	Description	URL
Developing Reports - Where to Start Details	Wiki page with Links to customization examples, quides and best practices	http://ibm.co/Nxs8oZ
BiLog:How to get Started with V7 Report Development	Bilog on getting started with report development	http://ibm.co/AxpHwy

Wiki Page with report development info/links



Developing Reports - Where to Start Details

- 1 Prerequisite Recommendations
- 1.1 Evaluate all Data Analysis Options
- 1.2 Confirm Report Specification Available
- 1.3 Insure Technical Skills of Report Developer
- 1.4 Confirm Familiarity with Maximo Database and Relationships
- o 1.5 Install and Configure BIRT Report Development Tool for Version 7
- 2 Key Reference Materials for Developing Reports
- 2.1 Report Developer's Guide
- 2.2 <u>V7 Report Booklets</u>
- 2.3 Modifying Delivered Reports
- o 2.4 Utilizing Ad Hoc Reporting for Report Development
- o 2.5 Custom report file structure recommendations
- · 3 Other Key Information
- o 3.1 Custom Report Techniques
- 3.2 Report Reference Material Matrix

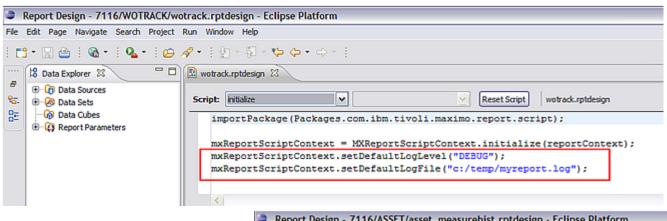
Troubleshooting Report Design files

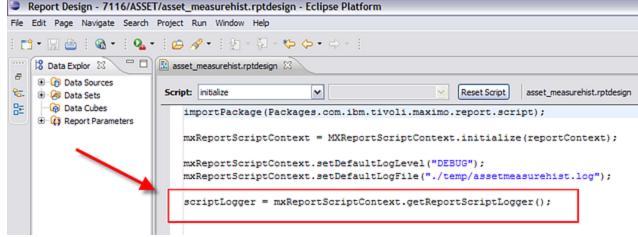
Process

Report Logging Information

Details logging features within report designer, and also how to enable within Maximo

http://ibm.co/OkwSxt





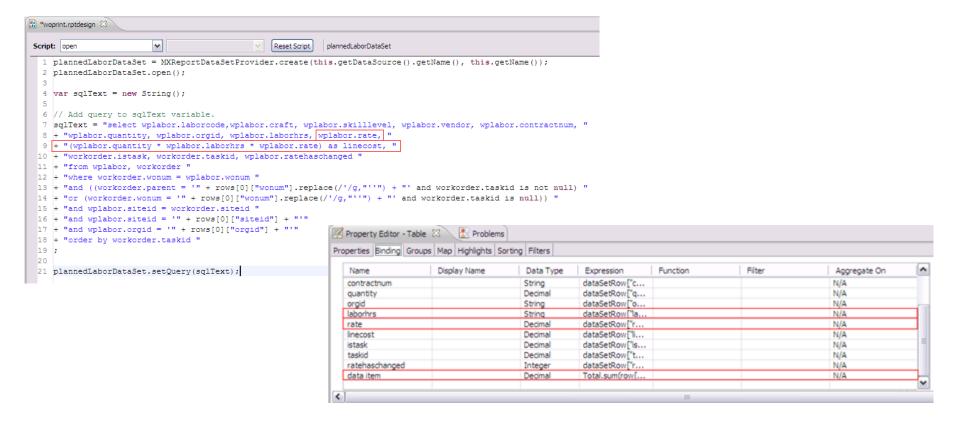
Modifying Delivered Reports Details

Modifying the Work
Order Details Report
in V7

How to customize delviered report example

http://ibm.co/OYDX4v

Step by Step Instructions of... How to delete fields... and enable others in Work Order Details Report



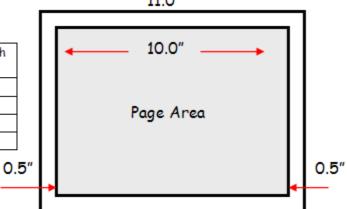
Report Page Size Info/Customizations

Guide	Description	URL
V7 Page Size/Orientation Information	Doc detailing delivered page options, and how you can implement custom sizes	http://ibm.co/NORHNW
Custom Report Page Details	Wiki Page describing page options and links for more details	http://ibm.co/OH4TEH
Custom Report Page Sizes	BiLog Highlighting information	http://ibm.co/J8KpbA

Details Include....

Description	Size	Orientation	Page Width	Margin Values	Available Width for Text
maximoLandscape	Letter	Landscape	11"	2 at 0.5" each	10"
maximoPortrait	Letter	Portrait	8.5"	2 at 0.5" each	7.5"
A4MaximoLandscape	A4	Landscape	297mm = 11.7"	2 at 0.5" each	10.7 "
A4MaximoPortrait	A4	Portrait	210mm = 8.27"	2 at 0.5" each	7.27"

Landscape Orientation 11.0"



Key Bookmarks for Other Report Customizations

Report Reference Materials: http://ibm.co/niokIv

Document Name	Description				
Customizing out of the box BIRT reports <u>Guide</u>	Details how to customize out of the box BIRT reports by deleting and adding new fields. The Work Order Details report is used as an example to step you through this process.	7.1 and 7.5			
V7 BIRT Report Page <u>Information</u> ଞ	Reviews the components impacting report page sizes and orientation used in the V7 BIRT Reports. It also details how you can customize them to meet your individual business needs.	7.1 and 7.5			
Enabling Bar Codes in Reports <u>Guide</u>	Details how to implement bar code fonts for use within BIRT reports.	7.1 and 7.5			
Adding username to a V7 Report <u>Details[®]</u>	Provides instructions on adding the username who executed report to the report's header section	7.1 and 7.5			
Changing Logos in BIRT Reports <u>Details</u>	Discusses how you can change the logos displayed within the V7 reports to your unique company logos.	7.1 and 7.5			
V7 Report Update Utility Guide	Details report update utilities which can be used to automate the process of applying updates to report designs, rather than manually editing each report.	7.1 and 7.5			

Report Wiki Home Page: http://ibm.co/oKTTp5

- Scroll down page to development/customization sections

Custom Report Development Best Practices

- IBM Developing Reports Where to Start Details: Recommendations for Report Developers on how to start learning to develop V7 BIRT reports.
- IBM. Custom Report Best Practices Details: Details best practices for defining your file structure, report xml and properties file for your modified or custom reports.
- THM Custom Report Development Database and Reference Information Details: Lists tools for identifying database objects, attributes and relationships
- IBM. Custom Reports Report Logos Details: Details how you can change all reports to use your custom report logos in three simple steps.
- IBM. Custom Report Modifying Out of the Box Reports Details: Detailed example of modifying a delivered report Work Order Details
- IBM Custom Report Page Details: Details page size, orientation and available area for field display
- IRM Custom Report Techniques Details: Highlights various ways you can customize your reports with bar code fonts, dynamic images and other techiniques

Agenda



Report and Data Options

BIRT Reporting

Configuration

Administration

Design

Development

Execution



Key Features

- Ad Hoc Reporting
- 2. Emailing
- 3. Scheduling
- 4. Delivered Reports

Property Files, Cron Tasks, Database Objects

Cognos Reporting

Reference Materials and Questions

V7 Report Execution KEY Features

Ad hoc reporting - Users create own reports

- Utilizing Maximo UI/Functionality -> Less Training

Utilizing Maximo Email functionality

- Separate mailer.rod no longer required
- PDF, XLS and URL attachment options

User Scheduling

- User manages his own schedules - edit, delete

V6 Execution Features Not Available

- 1. Persistent Reports (.roi)
- 2. Progressive Reports (page 1 of 50 pages displayed immediately)

In V7....Over 150 Enterprise, Operational Report Delivered

Work Order Details, Details of Asset Failures, Asset Availability, Inventory ABC, Vendor Performance...



Increasing Need for Users to Create their Own Reports

What's Driving This?

Dynamic Business or Project Needs

Increasing Skill Set of Users

Users have Multi-Role Jobs

Execution

AdHoc/QBR

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



Created in BIRT Report Designer

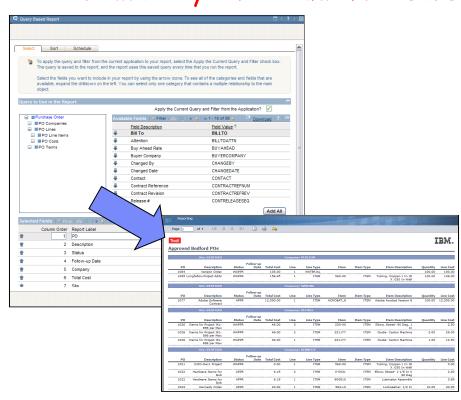
Requires Database/Java Skills

Complex Calculations, Graphs

Fixed Content/Format

Ad Hoc, or QBR Reports

Created by Individual V7 Users



Created on Fly

No Database/Java Skills Needed

Variable Content/Format

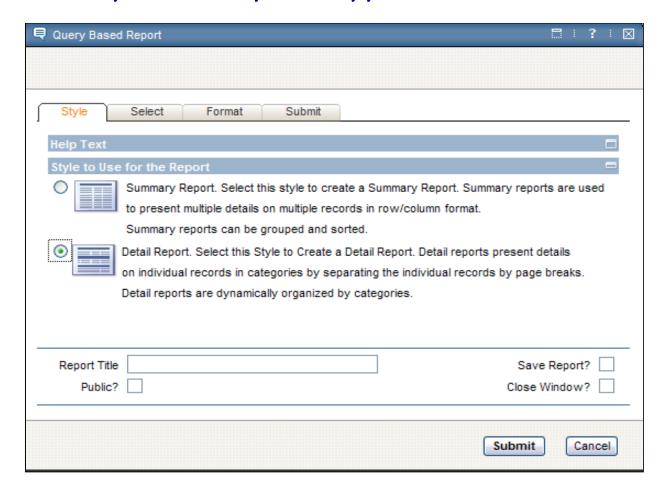
Execution

AdHoc/QBR

Detail or Summary QBR Report Type

Detail Reports give you most flexibility in field selection.

Summary reports enable you to define sorting and grouping

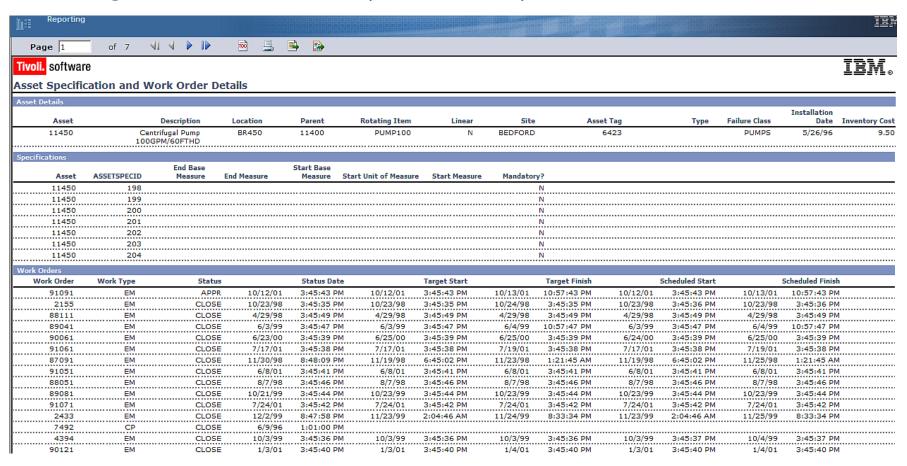


Multiple Details for Multiple Records - User Defined Groupings

Reporti	ng	l (h									
Page 1	of 1		■ (⇒ 🖦							
Tivoli										I	'em.
Approved	Bedford POs										
	Site: BEDFORD				Сотрапу:	VERIZON					
PO	Description	Status	Follow-up Date	Total Cost	Line	Line Tone	Item	Thomas Towns	Item Description	Otit	li C
			Date			Line Type	Item	Item Type	Item Description	Quantity	Line Cos
1084 1085 Le	Verizon Order ongfellow Project Adds			105.00 156.45	1 1	MATERIAL ITEM	560-00	ITEM	Tubing, Copper-1 In ID	100.00	149.00
									X .030 In Wall		
	Site: BEDFORD)			Company:	SWKING					
PO	Description	Status	Follow-up Date	Total Cost	Line	Line Type	Item	Item Type	Item Description	Quantity	Line Cos
1077	Adobe Software Contract	APPR		12,300.00	1	ITEM	ACROBAT_8	ITEM	Adobe Acrobat Version 8	100.00	12,300.00
	Contract										
	Site: BEDFORD)			Company:	OFFRUS					
			Follow-up								
PO	Description	Status	Date	Total Cost	Line	Line Type	Item	Item Type	Item Description	Quantity	Line Cos
1026	Items for Project IKL- 898 per Max	WAPPR		46.00	3	ITEM	230-00	ITEM	Elbow, Street- 90 Deg, 1 In		2.50
1026	Items for Project IKL- 898 per Max	WAPPR		46.00	2	ITEM	231177	ITEM	Guide- Carton Machine	2.00	29.00
	Items for Project IKL- 898 per Max	WAPPR		46.00	1	ITEM	231177	ITEM	Guide- Carton Machine	1.00	14.50
	Site: BEDFORD				Company:	KENNEDY					
			Follow-up								
PO	Description		Date	Total Cost	Line	Line Type	Item	Item Type	Item Description	Quantity	Line Cost
1021	DJIO-Rev1 Project			0.00	1	ITEM	560-00	ITEM			0.00
1022	Hardware Items for Bob	APPR		6.19	2	ITEM	0-0031	ITEM	Elbow, Street- 1-1/8 In X 90 Deg		2.50
1022	Hardware Items for Bob	APPR		6.19	1	ITEM	900810	ITEM	Lubricator Assembly		3.69
1023	Kennedy Order	APPR		40.00	1	ITEM	584-L0	ITEM	Lockwasher- 1/2 In	10.00	40.00

Ad Hoc Detail Report Example

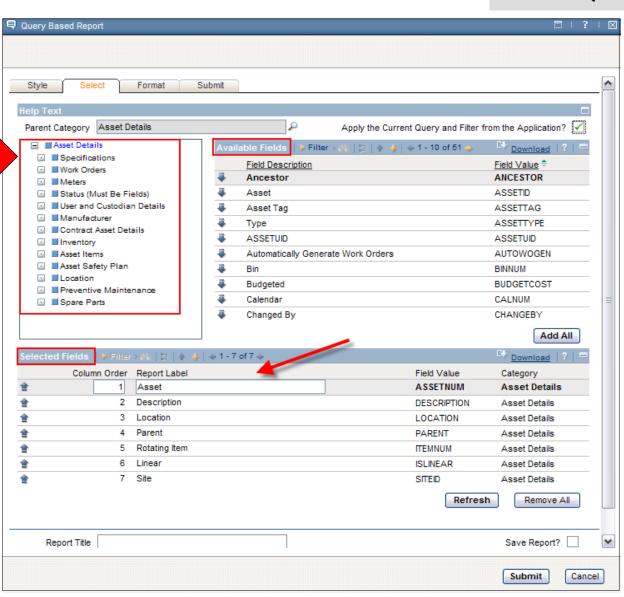
Multiple Details for Single Record (1:N Relationships)*
Page Breaks used to separate multiple records



*For Single Asset Record (11430), it has Multiple Specification and Work Order Records

Users select fields to their report from Table Category Drilldown. (Parent-Child Table Relationships.)

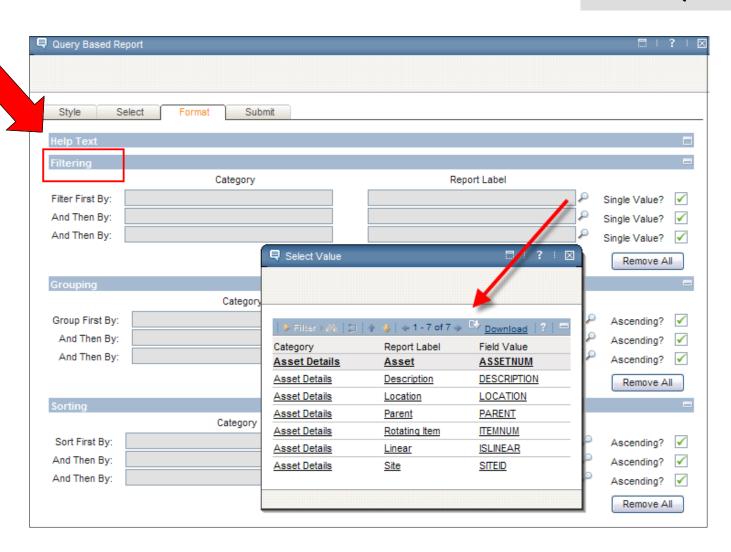
Selected Fields section shows what user has added.



Execution
AdHoc/QBR

Parameters can be defined for any type of report.

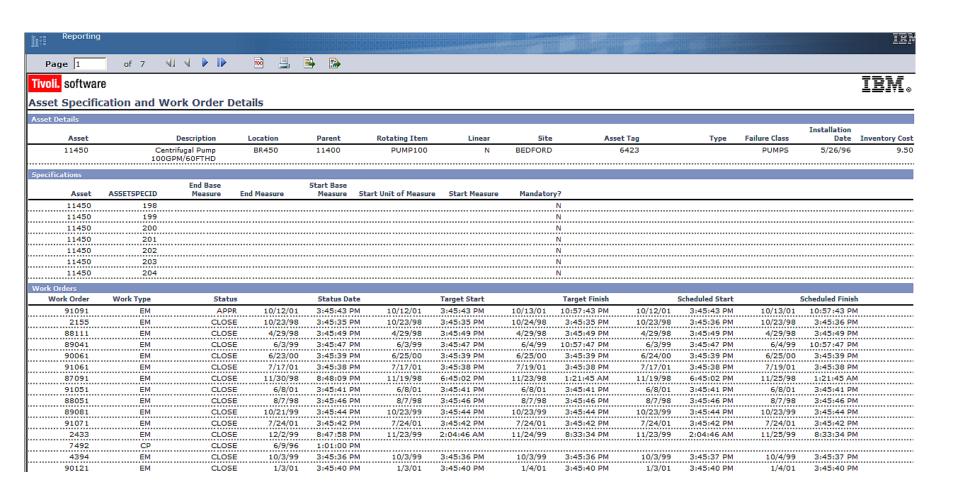
Sorting, Grouping can be applied to Summary Reports



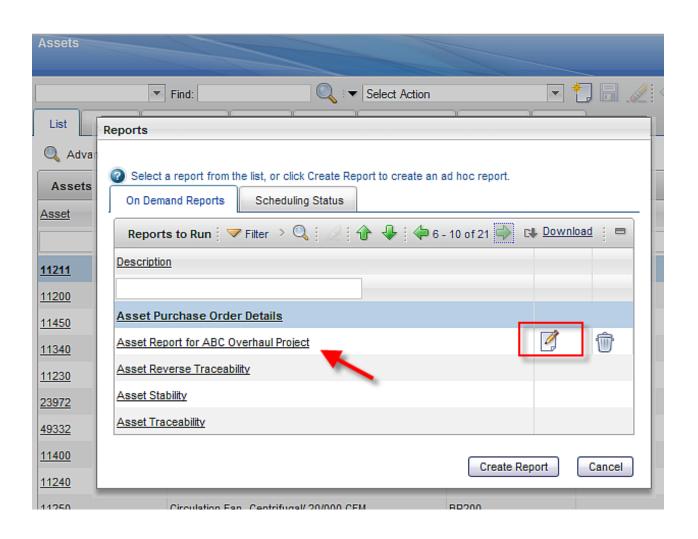
Your Custom, Individualized Report quickly results!

Execution

AdHoc/QBR



Ability to Edit Ad Hoc Report available



Key Point:
User who
creates Ad
Hoc Report
can edit it - or
use it to
create a new
Ad Hoc
Report

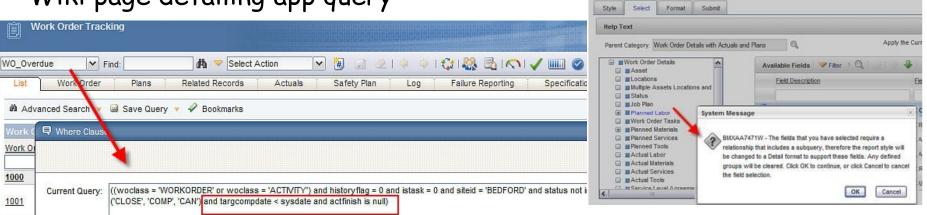
V7 QBR Information

Guide	Description	URL
V75 QBR Guide	Detailed step-by-step explanation of QBR and ROS creation	http://ibm.co/NHykq4
V71 QBR Guide	Like 75 guide, for V71	http://ibm.co/NfUcOV
Best Practices	Wiki page detailing best practices Ex. Applying application query to OBR	http://ibm.co/LYNMnL
BiLogs	Multiple BiLogs detailing QBRs	http://ibm.co/LuIc6k

BiLog detailing complex relationships

Query Based Report

Wiki page detailing app query



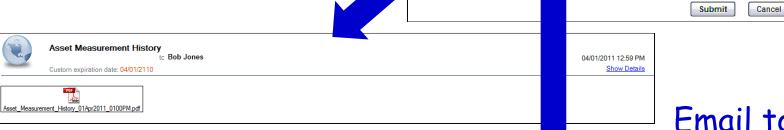
V7 Report Emailing

Email

	6.x	7.1	7.5
Email pdf file			
Email xls file		7116+	
Email to URL			
Email to Maximo & Non-Maximo Users			
Email report in browser after execution			
Retain report output in Maximo			Partial
	.roi files		Email URL
Functionality enabled thru	Actuate. mailer.rox	Maximo	Maximo

V7 Email Format Select on Report's Request Page. Report Must be scheduled to be emailed.

Email with File Attachment



Asset Move History Report

Request Page

Help Text

Parameters

Schedule

Recurring

Comments:

File Type:

PDF

Oxis

Email

6/1/11 4:00 AM

#To: lucy@abc.com

Asset Detail Analysis

Email to URL

to: Bob Jones
Custom expiration date: 03/28/2110

You have been given access to a scheduled report. To access the report, click the following link:

http://qarh06.swg.usma.ibm.com:7001/maximo/ui/login?event=loadapp&value=rptoutput&additionalevent=sqlwhere&additionaleventvalue=(jobnum='1009')&forcereload=true&uisessionid=LIC

鸜

Report Delivery Format:

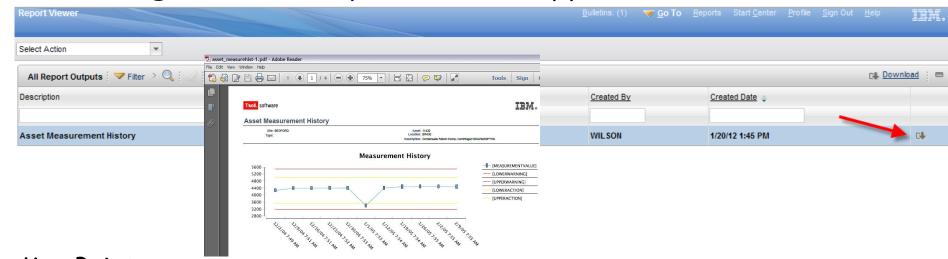
OFmail with a file URL

Email with a file attachment

Execution

- Fmail

URL brings user to Report Viewer application



Key Points:

- 1. Excellent for large reports no SMTP Server Constraints
- 2. For Maximo users only
- 3. Report Viewer application holds report output
- 4. REPORTOUTPUTCLEANUP Cron Task maintains content
- 5. Data stored in REPORTOUTPUT, REPORTOUTPUTCNT, REPORTOUTPUTAUTH

Email

Report Email Info & Reference Materials

	Description	
V75 Report Feature Guide	Detailed Emailing Section Available	http://ibm.co/NXBQNU
V71 Report Feature Guide	Detailed Emailing Section Available	http://ibm.co/Q4s8ji
BiLog: Email URL Introduction	Design logic behind Email url functionality	http://ibm.co/NB3Nxa
BiLog: Email URL Details	Recap of functionality including details, links, errors	http://ibm.co/LvDjiy
BiLog: Email URL Details	Details impact of property setting mxe.email.content.type	http://ibm.co/L8Dlxc

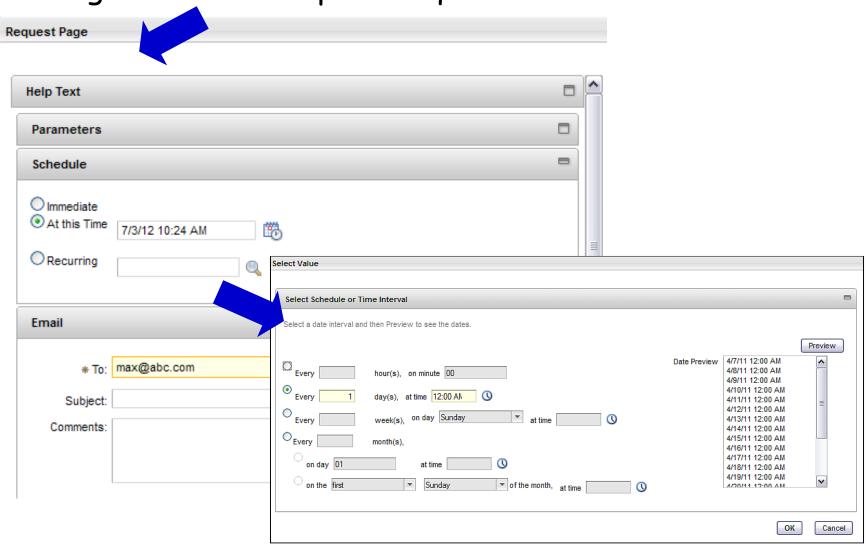
Execution
Schedule

	6.x	7.1	7.5
At This Time			
Recurring			
Admin modify schedule			
User modify schedule			
Report schedule limits		7114+	
Schedule Only Reports		7114+	
Schedule Only Reports - Reserved Processing Time			
Functionality enabled thru	Actuate	Ma×imo*	Maximo*

^{*}Maximo Report Scheduling enabled with REPORTSCHEDULE Cron task

V7 Report Scheduling

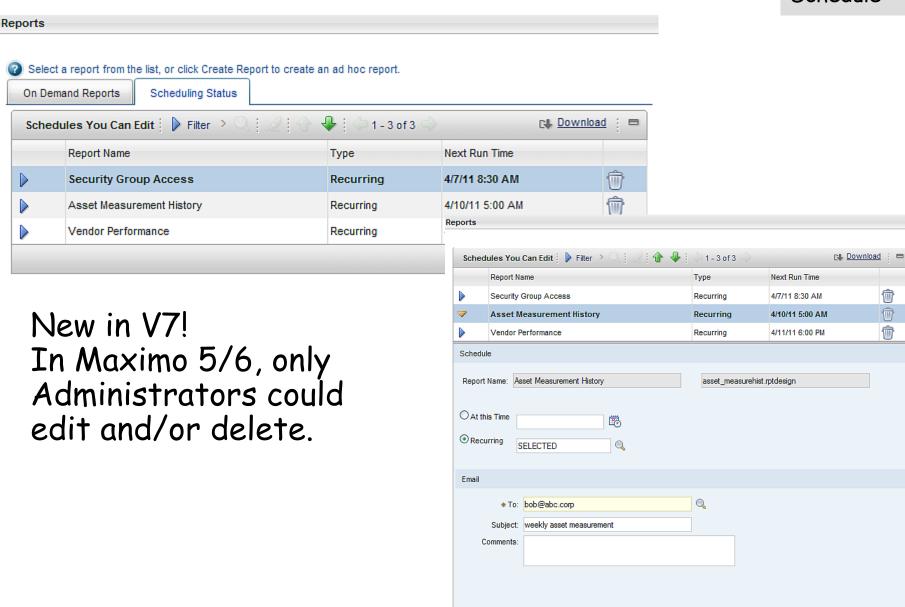
Options: At this Time (Single Future Date) or Recurring Scheduled Report Request



Execution Schedule

Report Delivery Format

V7 User can manage their own report schedules!



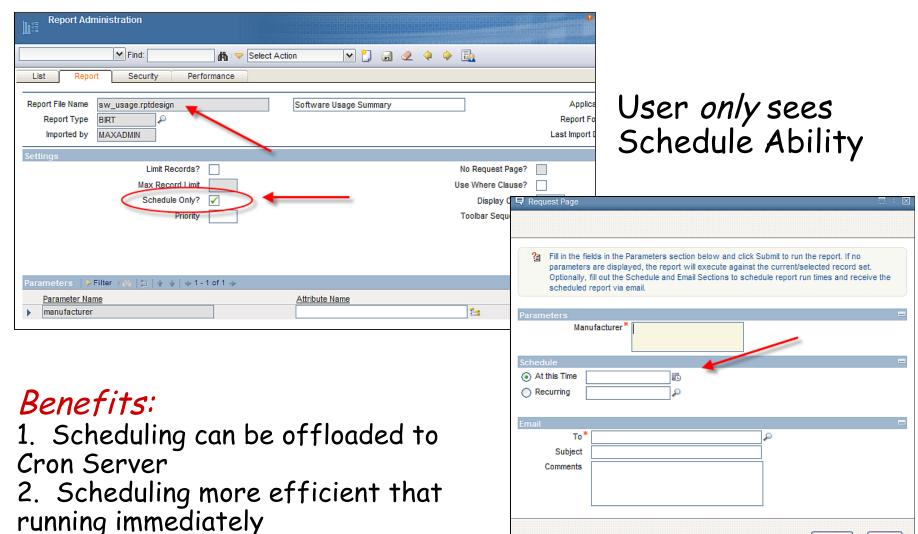
File Tyne

Submit

Cancel

V7 Schedule Only Reports

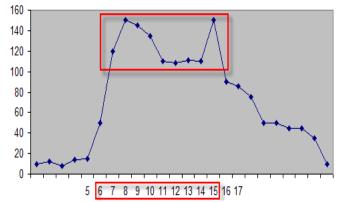
Configure Complex, Batch Reports to run only via Schedules



Schedule Only Reports + Reserved Processing Times

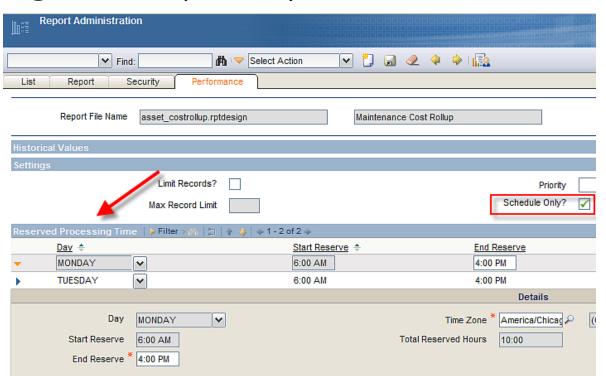
Additional Configuration Option

1. Identify Peak Processing Hours



2. Admin configures complex reports to not execute during

peak times



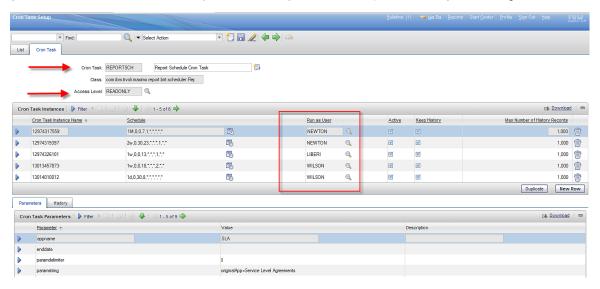
Reserved Processing Times Results

3. User Sees Day, Times complex report CAN be Executed

Request Page			
Schedule Availability ▼ Filter > th □ ↑ ↓ ← 1 - 9 of 9 →	2	Download ? =	^
Day	Start Time	End Time	
SUNDAY	12:00 AM	11:59 PM	
MONDAY	12:00 AM	5:59 AM	
MONDAY	4:01 PM	11:59 PM	
TUESDAY	12:00 AM	5:59 AM	
TUESDAY	4:01 PM	11:59 PM	≡
WEDNESDAY	12:00 AM	11:59 PM	
THURSDAY	12:00 AM	11:59 PM	
FRIDAY	12:00 AM	11:59 PM	
SATURDAY	12:00 AM	11:59 PM	
Time Zone			
Schedule		=	
At this Time □			
Recurring			~
	St	ubmit Cancel	

V7 Report Scheduler Enablers

1. REPORTSCHEDULE Read Only Cron Task Separate Instance for each scheduled report job Cron task parameters vary widely amongst report jobs



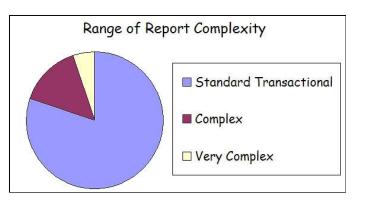
Database Objects
 REPORTSCHED, REPORTPROCRESERVE,
 REPORTPROCSCHED

REPORT.SCHEDULEONLY

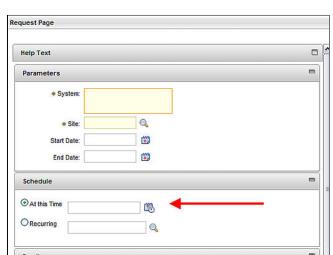
Scheduling Key Info & Reference Materials

Document	Description	Location
V75 Report Feature Guide	Scheduling Section	http://ibm.co/NXBQNU
V71 Report Feature Guide	Detailed Emailing Section Available	http://ibm.co/Q4s8ji
BiLog: Performance EnablersSchedule Only Reporting	Details range in report complexity – and how schedule only reporting	http://ibm.co/OciLZs

80/20 Rule - Report Complexity BiLog





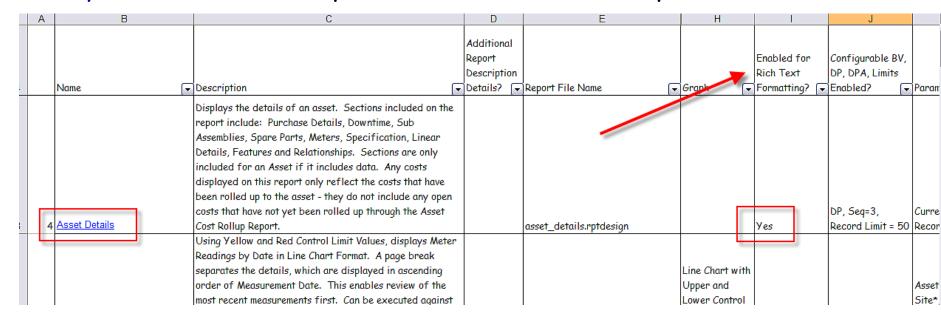


What they offer/How you can use

- Enable Starting Point
- Deliver Source, Tools for Customizing and Creating
- Present Clear, Value-Add Analysis Reports
- Provide 'How to' Code
 - -Custom Parameter Lookups
 - -Drilldown with History
 - -Sql on Unknown Tables
 - -Graphics with Control Limits
 - -Hidden Fields

How you can find information in delivered reports

V7 Report Booklet: Multiple details on delivered reports



Multiple worksheets with variety of details

Reports / Additional V75 R	eport Desc / Base 75 IS Report	ts Report 75 Updates Re	ference M
Application	Report Name	Report Design File	Status
User	Error Codes Report	serviceability.rptdesign	Added
Report Administration	Report Schedule Limits and Maintenance	reportschedule.rptdesign	Added
Inventory	Shipment Details	shipment.rptdesign	Added
Asset Link Results	Asset Link Result Detail	asset_link_result.rptdesign	Retired
Deployed Assets - Computers	Managed Software Detail	mgmt_sw.rptdesign	Retired

Delivered Report Version Comparison

Listing of Delivered report, file names by Release

	Maximo App		Included in		Included in	
Delivered Report Name	(s) •	Maximo 6 File Name	7.1	Maximo 7.1 File Name	7.5	Maximo 7.5 File Name
Summary of Asset Failures by Location	Asset	sumasset_fail_tbl_act.rox	Yes	sumasset_fail.rptdesign	Yes	sumasset_fail.rptdesign
Details of Asset Failures	Asset	detailasset_fail_tbl_act.rox	Yes	detailasset_fail.rptdesign	Yes	detailasset_fail.rptdesign
Drilldown into Asset's Failures	Asset	drillasset_fail_tbl_act.rox	Yes	drillasset_fail.rptdesign	Yes	drillasset_fail.rptdesign
Asset Availability	Asset	asset_availability_act.rox	Yes	asset_availability.rptdesign	Yes	asset_availability.rptdesign
				asset_costrollup.rptdesign,		asset_costrollup.rptdesign,
Asset Cost Rollup	Asset	asset_costrollup_act.rox	Yes	asset_costrollup_update.rptdesign	Yes	asset_costrollup_update.rptdesi

Including totals added, retired

-Reasons for retirement include list reports replaced by QBR, or report value no longer available

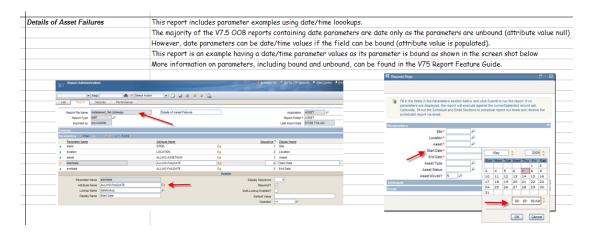
# Reports Delivered in Version 6	140
# Reports Added from V6 to V7.1	38
# Reports Removed from V6 to V7.1	24
# Reports Delivered in Version 7.1	154
# Reports Added from V7.1 to V7.5	3
# Reports Removed from V6 to V7.1	15
# Reports Removed for Industry Solution	2
# Reports Delivered in Version 7.5	140

V7 Delivered Report Information

Guide	Description	URL
V75 Report Booklet	V75 Delivered Report listing	http://ibm.co/SIOne2
V71 Report Booklet	V75 Delivered Report listing	http://ibm.co/Nyc9ac
Delivered report analysis by release	Comparison of delivered reports by V6, V71, V75	http://ibm.co/POFirk
	BiLog on Report Comparison	http://ibm.co/zku820
Wiki Page	How to Maximize use of report booklet	http://ibm.co/nk5EHb

Sample information from V75 Report Booklet





Report and Data Options

BIRT Reporting

Configuration

Administration

Design

Development

Execution

Property Files, Cron Tasks, Database Objects

Cognos Reporting

Reference Materials and Questions

Design Files	Executing Jobs	Scheduled Jobs
REPORTDESIGN	REPORTJOB	REPORTSCHED
REPORTDEPEND	Usage	
REPORTPARAM	REPORTUSAGELOG	Reserved Processing
	Parent Object	REPORTPROCRESERVE
Text Values	REPORT	REPORTPROCSCHED
REPORTLABEL		REPORTPROCECHED
L_REPORTLABEL	V7 Database	Scheduled Report Output
REPORTLOOKUP		(Email URL)
L_REPORTLOOKUP	Reporting Objects	REPORTOUTPUT
Ad Hoc Design Values (Editing	(Thru 7.5.0.3 Release)	REPORTOUTPUTCNT
REPORTADHOC		REPORTOUTPUTAUTH
DEDODIANLIOCETELN	Report Data Source	
REPORTADHOCFIELD	REPORTDS	Ou suin s
Security	REPORTDSPARAM	Queuing
REPORTAPPAUTH	REPORTUSPARAM	REPORTRUNQUEUE
REPORTAUTH	Report List Portlet	REPORTRUNLOCK
REPORTOSAUTH	REPORTLISTCFG	REPORTRUNPARAM

Property Setting	Description
mxe.report.birt.viewerurl	Used for BIRT Report Only Server (BROS) Configuration
mxe.sessiontoken.timeoutseconds	Token based session timeout used in the authentication of the user to BROSthe Report Server.
mxe.report.birt.maxconcurrentrun	Manages the number of BIRT immediate and Scheduled Reports that can be run concurrently
mxe.report.birt.queueidletimesecon ds	Frequency that the Queue Manager polls the Queue for new report jobs
mxe.report.birt.disable.queuemana ger	Defines whether the queue manager is enabled. If the queue manager is disabled (value set to 1) scheduled reports will not be executed on the server.

Property Setting	Description
mxe.Reportsinapage	Defines the number of reports to display in the Report Window
mxe.report.adhoc.editWithGroupA ccess	Enable editing of Ad Hoc report when any security group has access to the report.
mxe.email.content.type	Impacts display of email text received from the Comment section of the report request page.
JVM Property Settings	Reference Blog: http://ibm.co/JOKHEr
mxe.report.birt.tempfolder	Location of temporary folder for BIRT Runtime and temporary files created during the report execution process.
io.tmpdir	Used for intermittent, individual BIRT report file generation. Deleted when report completes execution.

DP/DPA Property Settings	Description
mxe.activex	Can ActiveX Controls be used for DP and DPA?
mxe.directprint.inherited.atta chment	Should inherited docs be enabled for Direct Print with Attachments?
mxe.doclink.defaultPrintDocWi thReport	Default value of printing attached document if printable type
mxe.report.AttachDoc.validate URL	Should the URL of the attached document be validated before printing from the V7 Server?
mxe.directprint.javaconsole.de bug	Enables troubleshooting output to Java Console for DP, DPA
mxe.directprint.printtime.wait	Maximum duration (secs) the current print process waits before moving to the next process (*For reports, PDF Attachments only)

^{*}Additional details in V71 and V75 Report Feature Guides

Cron Task	Description
REPORTSCHEDULE	Scheduling of BIRT Reports.
	(*READ ONLY CRON TASK)
REPORTLOCKRELEASE	Monitors the locks on report jobs
REPORTUSAGECLEANUP	Determines frequency that entries in REPORTUSAGELOG Table are deleted
REPORTOUTPUTCLEANUP	Determines frequency that scheduled report outputs in the Report Viewer application are deleted. (Introduced in 7.5.0.0)
REPORTADHOCLOCINST	Determines the frequency that newly created Ad Hoc Report Request Pages are enabled in multi-language environments. (Introduced in 7.5.0.1)

Agenda



Report and Data Options

BIRT Reporting

Configuration

Administration

Design

Development

Execution

Property Files....

1. Overview and BI Roadmap

2. Enablement: Direct, TCR InDirect

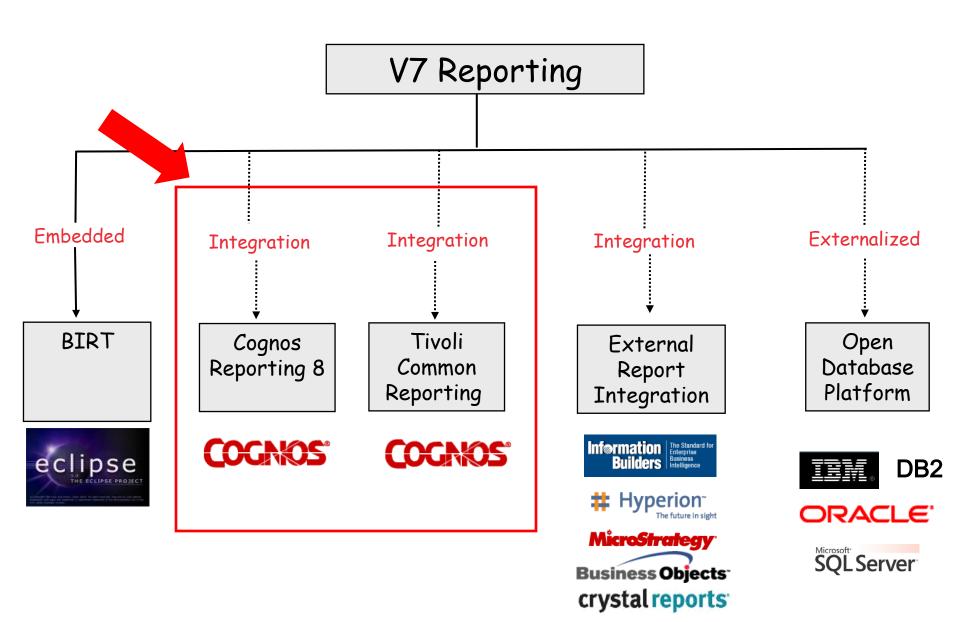
3. Integration Details

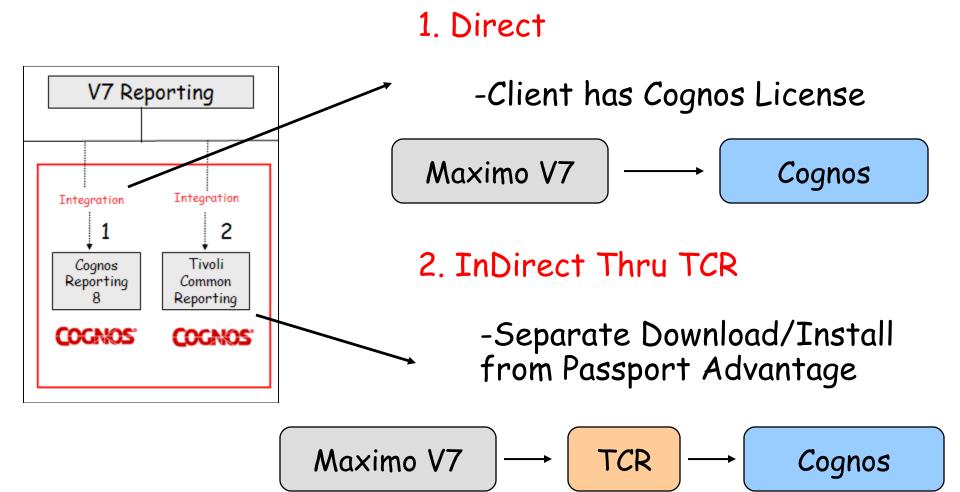
4. Reference Materials





Reference Materials, Index and Questions





^{*}TCR = Tivoli Common Reporting

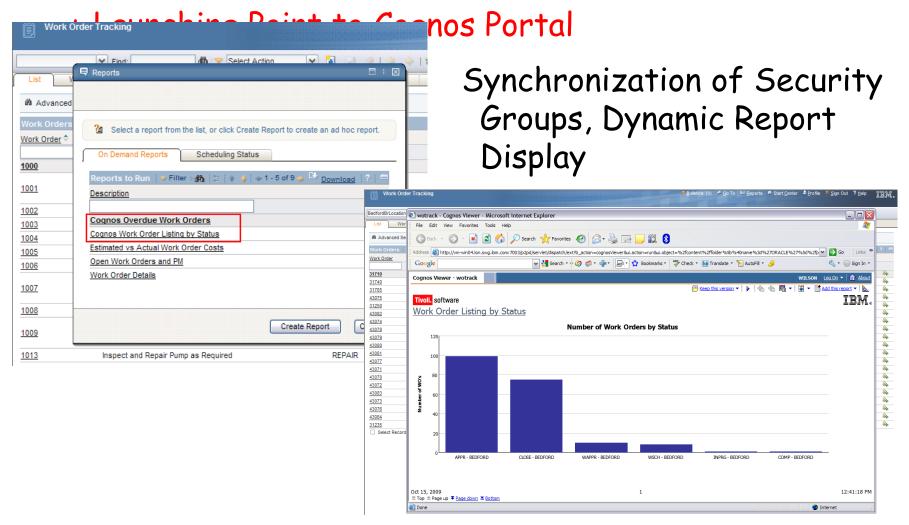
Direct vs InDirect TCR Cognos Integration Comparison

	Direct	InDirect - TCR
Provided at No Additional Cost		
Utilized by Multiple Tivoli Products		
Maximizes Cognos Portal Real Estate		
Minimizes Platform Restrictions	/	
Does not Require Additional Overhead/Footprint/Maintenance		

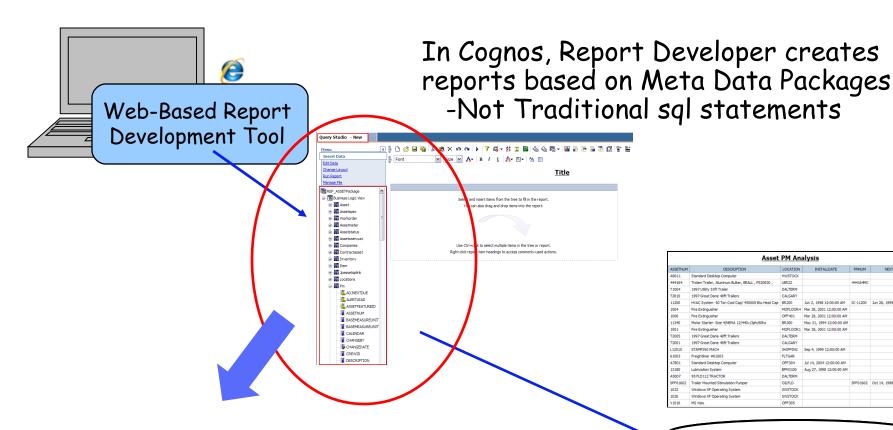
1. Visibility and Seamless Integration

2. Dynamic Creation of Cognos Meta Data

Visibility of Cognos Reports within Maximo



Dynamic Meta Data Publishing



Asset PM Analysis Standard Desktop Computer Tridem Trailer, Aluminum Bulker, BEALL, PS20630 1997 Utility 53ft Trailer Jun 2, 1998 12:00:00 AM IC-11200 Fire Extinguisher MOFLOOR4 Mar 28, 2001 12:00:00 AM Fire Extinguishe OFF401 Mar 28, 2001 12:00:00 AM May 31, 1994 12:00:00 AM Fire Extinguishe MOFLOOR1 Mar 28, 2001 12:00:00 AM 1997 Great Dane 48ft Trailer DALTERM 1997 Great Dane 48ft Trailers CALGARY SHIPPING Sep 4, 1999 12:00:00 AM STAMPING MACH 3d 14, 2004 12:00:00 AM Standard Desktop Cor OFF304 Lubrication System BPM3100 Aug 27, 1998 12:00:00 AM 95 FLD 112 TRACTOR DALTERM SPF01602 Oct 14, 1998 12:00:00 Af

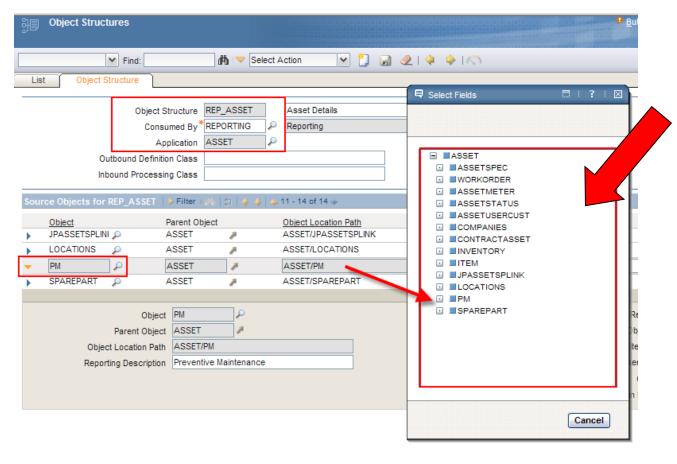
*Key to Maximo Integration Process: How to quickly enable availability of these Cognos Packages that reflect Client Database Customizations

Maximo Database

Removes Complexity of FM Tool	Significantly Reduces Resources Required for Creation and Maintenance of Packages
	- Prior Barrier to Product
Removes FM Platform Constraints	Acceptance Opens up Functionality to Non- Windows Clients
Produces Cognos Meta Data (Package)	Required to begin any Cognos report development
Produces .cpf file which can be opened in FM	Enables additional client extensions (ex. Override OS Business Rules) + Use by Other Cognos Products
Captures Client's Unique Database Customizations	Huge. Client's require their Database Customizations for reporting

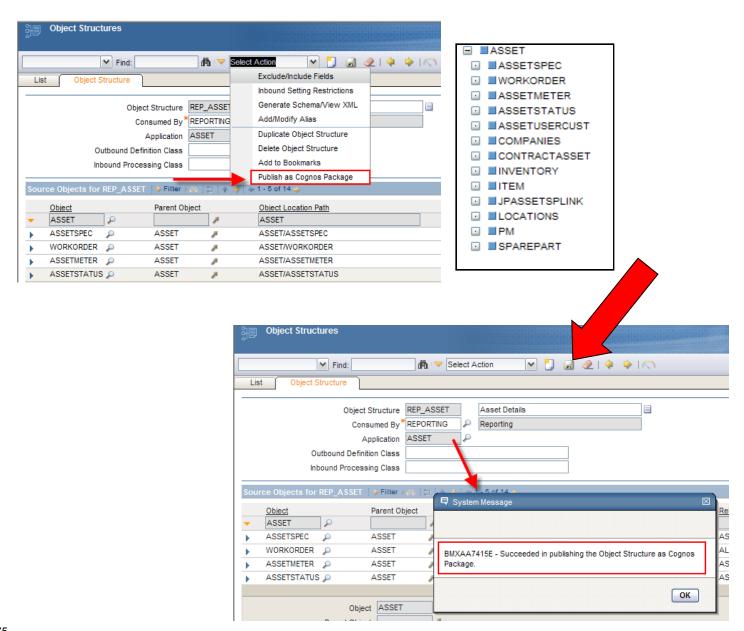
How Does Streamlined Package Publishing Process Work?

Access Object Structure application in V7 ..Bring up ROS (Report Object Structure)

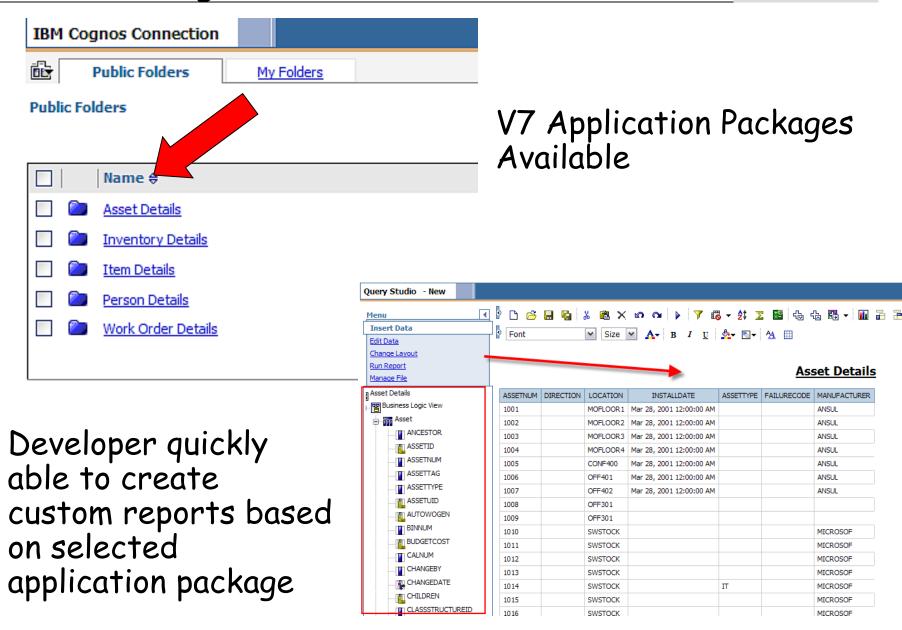


ROS are collections of related database objects joined together via maxrelationships

Publish ROS To Cognos as Application Package



Launch to Cognos



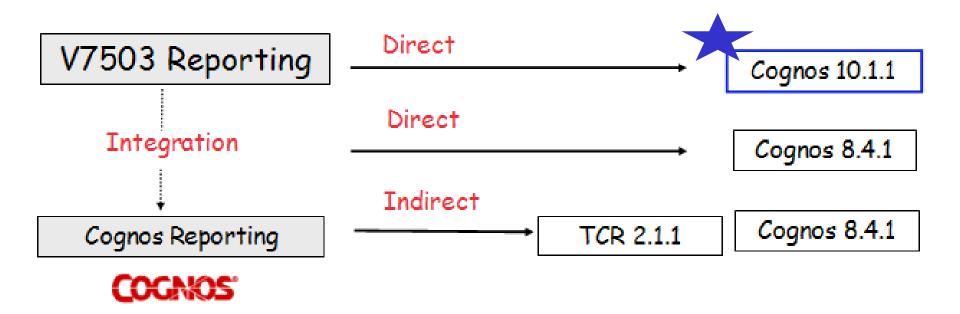
Enhancements By Release and Roadmap

Release	Description	Timing
V7.1.1.6	Initial Release	December 2009
V7.5.0.0	Platform Upgrade	April 2010
	Cognos 8.4 \rightarrow Cognos 8.4.1	
	TCR 1.2 → TCR 2.1	
V7.5.0.0	Publish Package Descriptions	April 2010
V7.5.0.0	Enable direct launch to Cognos Portal	April 2010
V7.5.0.3	Upgrade to Cognos 10.1.1	July 2012

7.5.0.3+

- 1. Direct: V7.5.0.3 -> Cognos 10.1.1 (New)
 2. Direct: V7.5.0.3 -> Cognos 8.4.1

 - 3. TCR Indirect: V7.5 -> TCR 2.1.1 -> Cognos 8.4.1



V7.5.0.3 Available July 2012

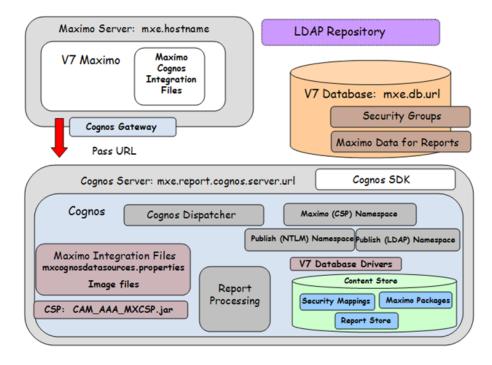
V7 Cognos Installation Instructions: How to Install

Туре	Location
V75 DIRECT Cognos 841	http://ibm.co/MnIOyP
V75 TCR INDIRECT Cognos 841	http://ibm.co/GDIVzv
V71 DIRECT Cognos 84	http://ibm.co/Q7ZLAH
V71 TCR INDIRECT Cognos 84	http://ibm.co/QcNHwV

Install	<u>SetUp</u>	Configure	Meta Data	Admin
Install V7.5	2. V7.5 Create Unique Database User for use in Cognos Authorization	5. Cognos: Create Namespaces. 1 for CSP, 1 for MetaData	8. Configure Cognos SDK	11. V7.5 Report Admin: Register Cognos Test Reports
1. Cognos: Install Cognos 8.4 SP1	3. V7.5: Edit & Copy mxcognosdatasources .properties file	6. V7.5: Configure Maximo Property Files for Cognos	9. Set End Point Properties	12. Cognos: Import Report Test Design Files to Cognos
	4. V7.5: Copy to Cognos (1) CSP Jar (2) Database Drivers (3) Images	7. Cognos: Create Data Source	10. Publish Cognos Packages	

V7 Cognos Integration: How it Works

Туре	Location
Version 7.5 Cognos Integration	http://ibm.co/NPsTKR
Version 7.1 Cognos Integration	http://ibm.co/NJOynV



Scroll down the page - to the Demos Section

Two demos available

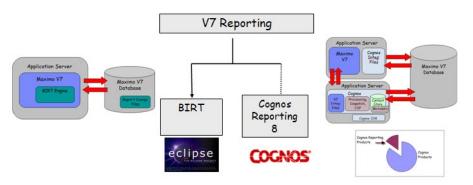
- Creating Cognos Package, and resulting Query Studio report
- 2. Details of how V7-Cognos Integration works

Demos

TRM Demo-Creating Ad Hoc Report in Cognos Details NEW!

IBM Maximo Cognos Integration Overview : Highlights integration including accessibility, security, administration and meta data packaging.

Wiki Page and linked PPT comparing the 2 tools



..as they are included within the Maximo applications

Operational, Transactional Reporting

Ad Hoc Reporting

Operational Reporting Functionality Comparison

REPORT DEVELOPER

IBM

	V7 BIRT	Cognos
Utilizes Meta Data - Less sql knowledge required		1
Web Based Tool. No Configuration Required		1
Starting Point - Export Ad Hoc Reports for Extensions	1	1
Starting Point - 100's of reports delivered out of the box	✓	
Code modifications required to enable V7 Report Execution		1
Database Updates enabled from report	1	
Extensive Validation within Designer		1
Extensive Training, Documentation, Resources Available		1

http://ibm.com/xJKa6D

SMC Cognos Report Wiki Pages

Cognos

Major Report Enhancements by Release http://ibm.co/GWHgXz

Functionality	Description	News Alert	Functionality Detailed In	Document Reference #	Revision #	BiLog* Posting
QBR Editing	Ability to edit saved QBRs	http://bit.ly/jYvuA98	V75 QBR Ad Hoc Reporting	1498285	1	http://ibm.co/msSWnP
QBR ROS	Use of same object multiple times in ROS	http://bit.ly/mgeHka8	V75 QBR Ad Hoc Reporting	1498285	1	http://ibm.co/owWwLo
Email URL	Email report content to url within V7	http://bit.ly/kv7mTv8	V75 Report Feature Guide	1498433		http://ibm.co/mAzOH36
Rich Text	Display report content in rich text format	http://bit.ly/jBvBJb8	V75 Report Developer's Guide	1498572	1	http://ibm.co/kAW6Uy8
Import Updates	Security Password Enhancements	http://bit.ly/iD3Z8w8	V75 Report Feature Guide	1498433		
Designer Updates	New Properties Features	http://bit.ly/iDbiKJ@	V75 Report Developer's Guide	14985728	1	
Schedule Limits	Limit Schedule reports	http://bit.ly/mPS6G38	V75 Report Feature Guide	1498433		http://ibm.co/mY4KNe8
Direct Print Updates	Updated architecture	http://bit.ly/lscNU188	V75 Report Toolbar Access	1498665		
Logging	Engine and Designer Updates	http://bit.ly/koSUmk8	V7 Logging Guide	1423974		
OOB Reports	Delivered report updates	http://bit.ly/ipJGx88	V75 Report Booklet	http://bit.ly/jND1CX3		http://ibm.co/nk5EHb8
Error Codes	New Report Content	http://bit.ly/ipJGx88	V75 Report Booklet	http://bit.ly/jND1CX		http://ibm.co/nk5EHb8
Integration: Cognos	Cognos Package Naming	http://bit.ly/lQeJBO	V75 Maximo Cognos Integration Guide	1500935	2	
Integration: Cognos	Additional Access Points	http://bit.ly/kiBlmu8	V75 Maximo Cognos Integration Guide	1500935	2	
Integration: Cognos	Updated Platform Support	http://bit.ly/kiBlmu8	V75 Maximo Cognos Installation Guide	1500030	2	
Integration	Delivered Integration Undates	http://bit.lv/INzem\/®	V75 Peport Planning Guide	1497938	1	



Cognos FAQs

http://ibm.co/oKTTp5

Agenda



Report and Data Options

BIRT Reporting

Configuration

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Design

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Property Files, Cron Tasks, Database Objects

Cognos Reporting

Reference Materials, Index and Questions

Site	Description	Short URL
Maximo Report Community	Your Maximo Reporting Peers	http://ibm.co/zFmoP2
Report Wiki - Reference Materials	Report reference materials by release	http://ibm.co/niokIv
Report Wiki – Enhancements	Report features by release	http://ibm.co/GWHgXz
User Forum	Q&A - Maximo Technical	http://ibm.co/LqOsRf
Maximo Blogs	Latest best practice, functionality info	http://ibm.co/GGGyzu

Guide	Short URL
V75 Report Feature Guide	http://ibm.co/NXBQNU
V75 Report Development Guide	http://ibm.co/Lb2bfx
V75 QBR Guide	http://ibm.co/NHykq4
V75 Report Booklet	http://ibm.co/SIOne2
V75 Report Toolbar Access	http://ibm.co/KgsJfp
V75 Upgrade Planning Guide	http://ibm.co/NWWUUw
V7 Report Design	http://ibm.co/00sNf2
V7 Report Performance	http://ibm.co/NsXMRr



Report And Data Options

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2. Installation	Page 51
3. System Configuration Options	Page 52
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	4. Access - Toolbar, Portlet	Page 88
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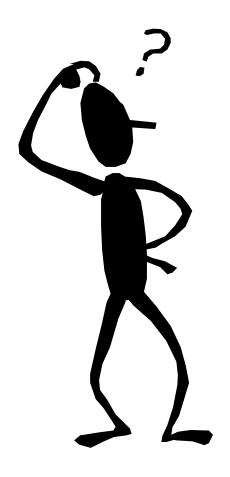
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QUESTIONS??





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