



IBM Maximo Asset Management

V7.5 Cognos Integration Install Instructions

© Copyright International Business Machines 2011

Table of Contents

Overview	3
Integration Installation Overview	4
Integration Architecture	
1. Install Cognos 8.4.	6
2. Create Unique Database User for use in Cognos Authorization	
3. Configure and Copy mxcognosdatasources.properties file	
4. Copy CSP and Database Jar Files from Maximo to Cognos	12
5. Create 2 Namespaces in Cognos Configuration for Security and Metadata	15
Cognos Namespace Reference Materials	21
6. Configure Maximo Properties in Maximo System Property application	
Troubleshooting Tips	
7. Create a Data Source in Cognos Administration	
Troubleshooting Tips	
Missing dll's	
8. Configure Cognos SDK for Metadata	34
9. Set End Point properties	
Reference: How to create a Folder Location in Cognos	38
10. Publish Cognos Packages	
Notes on Publishing Cognos Packages	
Troubleshooting	
Publishing Package for Test Reports	
11. Register Cognos Reports in Maximo's Report Administration application	
12. Import Report Designs, Templates into Cognos. Test Integration	
Install Test	
Notes on Executing Cognos reports from Maximo	
Troubleshooting	
Troubleshooting Tips: Logging Features	
Maximo Logging Features	
Cognos Logging Features	59
Database Logging Features	60
Troubleshooting Tips: Frequently Seen Error Messages	61
Cognos: Namespace Property Setting	
Cognos: Namespace Jar File Extraction	
Appendix - Install Cognos Reporting thru TCR	
Platform Issues to Note	
Tivoli Common Reporting Installation Instructions	64
Tivoli Common Reporting Installation Notes	
Reference Materials	
Trademarks	72

Overview

Within the Maximo® Base Services 7.5 Releases, an IBM Cognos ® Reporting Integration is enabled. This integration extends the current suite of reporting tools that Maximo enables into a deeper level of Strategic Reporting. This document details the installation steps required for the integration, the synchronization of the security groups, enabling of Maximo based Object structures to be published as Cognos metadata packages, and creation of Cognos Namespaces.

Due to the extent of this integration, it is highly recommended that you first review all aspects of the Maximo Cognos Integration. These are detailed for you in the Maximo Cognos Integration Guide. This guide can be found at the url below. http://www.ibm.com/support/search.wss?g=7cognos

Additionally, the user performing the Integration Installation must be very experienced and knowledgeable with both the Maximo Architecture, and the Cognos Reporting Products. The integration installation requires in depth knowledge of Maximo Integration Applications, include Object Structures and End Points, as well as in depth knowledge in Cognos Administration Functionality, including defining data sources and creating namespaces.

Information at the end of the guide includes details on various logging features you can enable within Maximo, Cognos and your database, along with other troubleshooting techniques. This information will be updated as often as possible, so please be sure to check that you have the most recent revision of this document before starting the integration.

Finally, you can enable the Maximo Cognos Integration in two different ways - either through your existing license of Cognos Reporting, or through your utilization of Tivoli Common Reporting. Due to the variations in the architecture of these two setups, throughout this guide there will be different steps for these two different systems. To highlight these to you, if you utilize your own license of Cognos, without TCR, it will be referred to as a Direct Integration. If you use Cognos thru TCR, it will be referred to as an Indirect or TCR integration.

Note: This document is specific for the 7.5 Releases

Integration Installation Overview

The integration installation includes the steps to dynamically create the Cognos metadata layer, synchronize security groups, pass information from Maximo to Cognos at run time and register utility reports within Maximo and Cognos. Due to the wide variety of tasks being performed, the integration steps below must be performed.

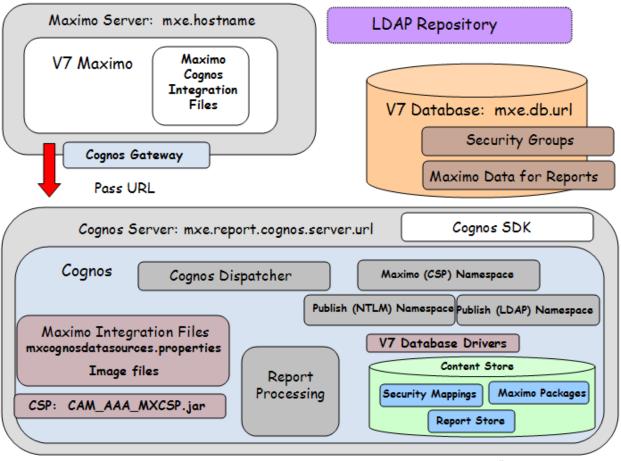
- 1. Install Cognos
- 2. Create Unique Database User for use in Cognos Authorization
- 3. Configure and Copy mxcognosdatasources.properties file
- 4. Copy CSP and Database Jar Files from Maximo to Cognos
- 5. Create two Namespaces in Cognos Configuration for Security and Metadata Publishing
- 6. Configure Maximo Properties for Cognos
- 7. Create a Data Source in Cognos Administration
- 8. Configure Cognos SDK
- 9. Set End Point Properties
- 10. Publish Cognos Packages
- 11. Register Cognos Test Reports in Maximo's Report Administration application
- 12. Import Test Report Designs, Templates into Cognos. Verify Integration

Install	SetUp	Configure	Meta Data	Admin
V7: Upgrade to V7.1.1.6	2. V7: 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 Report Admin: Register Cognos Test Reports
1. Cognos: Install Cognos 8.4 (Optional TCR Install)	3. V7: Edit & Copy mxcognosdatasources properties file	6. V7: Configure Maximo Property Files for Cognos	9. Set End Point Properties	12. Cognos: Import Report Test Design Files to Cognos
	4. V7: Copy to Cognos (1) CSP Jar (2) Database Drivers (3) Images	7. Cognos: Create Data Source	10. Publish Cognos Packages	

Integration Architecture

As you use this guide to enable the integration, you will be building an architecture similar to what is shown below. Your specific architecture may vary from the diagram shown below depending on factors including your security group repository, your application server and whether or not TCR is utilized in your environment.

The key components that you will be enabling thru this integration install including the namespaces, components of the Content Store, CSP Jar files and Cognos SDK, are highlighted in the diagram below.



mxe.report.cognos.db.contentstore

1. Install Cognos 8.4.

This integration is developed for the Maximo Base Services 7.5 and later Releases with Cognos 8.4 Service Pack 1 Reporting Release. Before beginning this integration installation, Cognos 8.4 SP1 Reporting must be installed and operational. The installation of Cognos 8.4 SP1 can be enabled through either one of the configurations below.

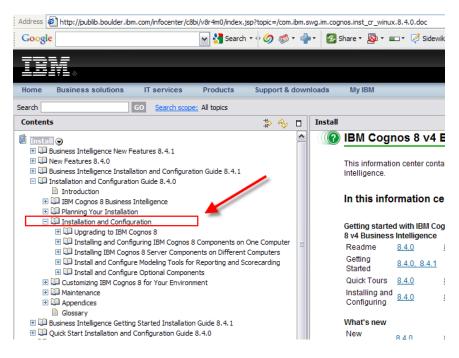
- A. Your own corporate licensing and installation of Cognos 8.4 SP 1 Reporting. This is referred to as a Direct Integration.
- B. Thru the Tivoli Common Reporting (TCR) 2.1 which enables Cognos 8.4 SP1 Reporting. This is referred to as an Indirect or TCR Integration.

NOTES: If you are using the Direct Integration with your own corporate licensing of Cognos:

1. You must not install Cognos under a directory with any spaces. For Example, if you install Cognos under <c>\Program Files, problems will occur. Cognos must be installed in a directory path without any spaces.

2. For more details and troubleshooting techniques on installing Cognos, reference this online link to Cognos guides

http://bit.ly/aaJYTs



Notes: If you are installing Cognos Reporting by using Tivoli Common Reporting 2.1, reference the appendix for additional details.

2. Create Unique Database User for use in Cognos Authorization

If you want, you can create a unique user, who will be used to obtain user and security group information from the V75 database for Cognos - or you can use the system maximo database user.

If you want to create a unique database user, you can do this in many different ways depending on your database type. The example below shows how a new database user of Cognos can be created.

If you are using Oracle or SQL Server, you can directly create a new database user through the User Application in V75. To do this, create a new user, and from the Action Menu select 'Database Access'.

▼ Find:	Select Action
List User Groups Security Profile	e Workflow Change Status View History
User. Countos	Database Access
	Set Password Hint
* User Name: cognos	Set Security Profile Authorize Group Reassignment Security Controls Manage Sessions
Personal	Manage Blocked IP Addresses Change Person
* Person: COGNOS >>> Status: ACTIVE	Duplicate User Delete User Add to Bookmarks
First Name:	Run Reports

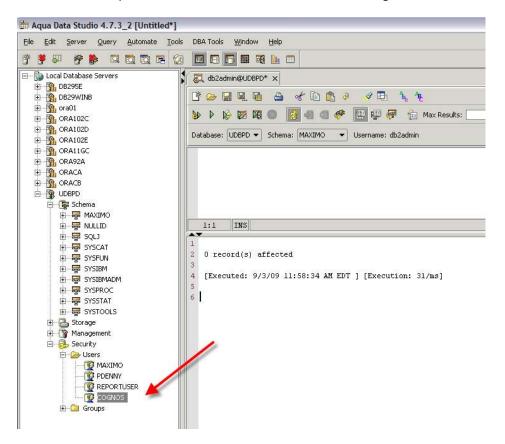
Then, enter a database user name and password, and grant read only access to the MAXUSER, MAXGROUP, PERSON and GROUPUSER Tables.

	outuou	se Access							
ist	Use	er: COGNOS							
	Dat	abase User Info	rmation						8
.ogin		Database Database Pa Confirm Pa	10	gnos			13		25
ersc		0.000					Drop	Database U	ser
ersc *	Tal	bles (D Filter)	>012	Entity Name		Insert	CI	, <u>Download</u>	_
	Tal		>]] 2 >	Entity Name MAXUSER	f3 Read I	Insert			_
		oles 👂 Filter Object Name 🌲		Entity Name	Read		CI	Download	1
*		oles Diect Name 🍨	»	Entity Name MAXUSER	Read		CI Update	Download	•
* First		Dies Printer Object Name (*) MAXUSER GROUPUSEF PERSON	» »	Entity Name MAXUSER GROUPUSEF	Read		CI Update	Download	
Firs Las		Dies Printer Object Name (*) MAXUSER GROUPUSEF PERSON	» »	Entity Name MAXUSER GROUPUSEF	Read		CI Update	Delete	

Note: If you are using DB2, the new database user must also be an Operating System (OS) User. Therefore, the DB2 user must first be added as an OS user before performing the action above.

The steps below show another example of how the unique database user can be added thru a Database Configuration Tool.

2A. Access the database querying tool, and locate the V75 Database. Add a new Database User. The example below shows a new database user of Cognos.



2B. Grant 'Read only' database privileges via scripts to the new user on the following database tables: MAXUSER, GROUPUSER, PERSON and MAXGROUP

grant select on MAXIMO.MAXUSER to cognos

grant select on MAXIMO.GROUPUSER to cognos

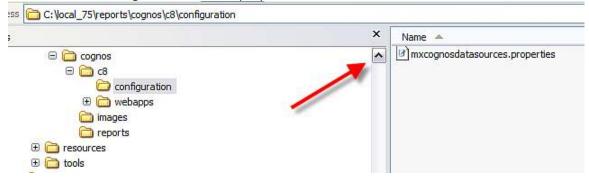
grant select on MAXIMO.PERSON to cognos

grant select on MAXIMO.MAXGROUP to cognos

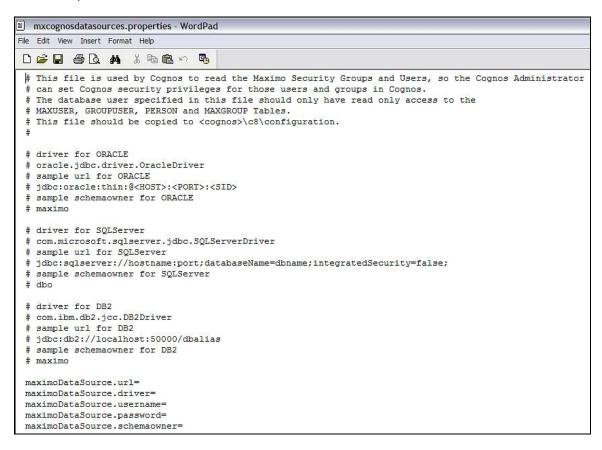
3. Configure and Copy mxcognosdatasources.properties file

This property file is used for security authentication of the Maximo users to Cognos.

3A. Navigate to the Version 7.5 Directory. Go to <v75>\reports\cognos\c8\configuration and locate the mxcognosdatasources.properties file.



3B. Update the property file below for your Version 7.5 database and either the unique database user you created in step #2, or your Maximo system database user. Once input, save the updated file.



This example uses the Maximo system database user of maximo as shown in the red text below.

```
# driver for ORACLE
# oracle.jdbc.driver.OracleDriver
# sample url for ORACLE
# jdbc:oracle:thin:@<HOST>:<PORT>:<SID>
# sample schemaowner for ORACLE
# maximo
# driver for SQLServer
# com.microsoft.sqlserver.jdbc.SQLServerDriver
# sample url for SOLServer
# jdbc:sqlserver://hostname:port;databaseName=dbname;integratedSecurity=false;
# sample schemaowner for SQLServer
# dbo
# driver for DB2
# com.ibm.db2.jcc.DB2Driver
# sample url for DB2
# jdbc:db2://localhost:50000/dbalias
# sample schemaowner for DB2
# maximo
maximoDataSource.url=jdbc:db2://localhost:50001/UDBPD
maximoDataSource.driver=com.ibm.db2.jcc.DB2Driver
maximoDataSource.username=maximo
maximoDataSource.password=maximo
maximoDataSource.schemaowner=MAXIMO
```

3C. Copy the mxcognosdatasources.properties file to the directory below depending on which configuration you are using:

If you are using the direct integration between V7 and Cognos, copy the mxcognosdatasources.properties file to the cognos directory <cognos>\c8\configuration

If you are using TCR, copy mxcognosdatasources.properties to <TIP_components_dir>\TCRComponent\cognos\configuration

4. Copy CSP and Database Jar Files from Maximo to Cognos

4A. Copy the CSP jar file.

The CSP jar file, CAM_AAA_MXCSP.jar, is used to authenticate Maximo Users to Cognos. You need to copy this file from Maximo to Cognos.

4A1. From the Version 7.5 Directory, go to <V75>\reports\cognos\c8\webapps\p2pd\WEB-INF\lib and locate CAM_AAA_MXCSP.jar.

	× Name 🔺
🖂 🛅 cognos	CAM_AAA_MXCSP.j
8 🗂 🗉	
Configuration	
🕀 🫅 webapps	
😑 🧰 p2pd	
🖂 🛅 WEB-INF	

4A2. Copy CAM_AAA_MXCSP.jar file to the cognos directory <Cognos>\c8\webapps\p2pd\WEB_INF\lib.

TCR NOTE:

For Clients using the TCR Integration, copy the jar file to the locations below:

4A3. Copy CAM_AAA_MXCSP.jar file to

<tip install>\profiles\TIPProfile\installedApps\TIPCell\IBM Cognos 8.ear\p2pd.war\WEB-INF\lib

and

<tip install>\products\tcr\Cognos\c8\webapps\p2pd\WEB-INF\lib

*Note: If you do not copy the jar file to the second location when using the TCR Integration, you will receive a failure when testing the namespace from the Cognos Configuration.

4B. Copy Database Drivers

Cognos requires Database Drivers for the CSP Security Authentication.

4B1. Navigate to the V75 Directory to <V75>\applications\maximo\lib and locate drivers for the database you are using.

For Oracle: oraclethin.jar

For SQL Server: sqljdbc.jar

4B2. For Oracle and Sql Server only, copy the applicable database driver to the directory below depending on which configuration you are using:

If you are using the direct integration between V7 and Cognos, copy the database driver(s) to

<Cognos>\c8\webapps\p2pd\WEB-INF\lib

If you are using the TCR Integration, copy the Oracle or SQL Server database drivers to <TIP_components_dir>\TCRComponent\cognos\webapps\p2pd\WEB-INF\lib

**For DB2: Note - with the Cognos 8.4 SP1 release, you *do not* have to copy DB2 Drivers to Cognos. If you do copy the drivers over, Cognos will fail to connect to the database. This applies whether you are using the Direct Maximo Cognos Integration, or the TCR integration.

4C. Update the Java Version

If you haven't already updated your Cognos Application server to use JRE 1.6, you must do so now. The steps to do this are

4C1. Set the JAVA_HOME system environment variable to use a 1.6 JRE.

4C2. Copy the bcprov-jdknn-nnn.jar file from the c8_location/bin/jre/version/lib/ext directory to the Java_location/jre/lib/ext directory.

For example, copy bcprov-jdk14-134.jar to C:\Java60\jre\lib\ext 4C3. In Configuration Manager, save the configuration.

Note: If you do not have JAVA_HOME specified and you are using Tomcat, Cognos will use the bundled JRE 1.5 version.

You can also find these steps documented on the Cognos Installation and Configuration Guide on page 125. This guide and other Cognos documentation can be found at the url below

<u>http://bit.ly/mTNflH</u>

<u>NOTE: This next section applies only to Clients utilizing the direct integration between</u> <u>Maximo and Cognos.</u>

4D. Copy Image files.

4D1. Within the Version 7.5 directory, navigate to <V75>\reports\cognos\images.

ss 🛅 C: \local_75\reports\cognos\images	
× Name 🔺	
🖃 🛅 cognos 💽 💽 collapse.gif	
🕀 🧰 c8 📃 📃 📃 expand.gif	
🗁 images 📃 IBM_logo_Black.gif	
🛅 reports 📃 tivoli.gif	
🗄 🧰 resources	
🗄 🧰 tools	

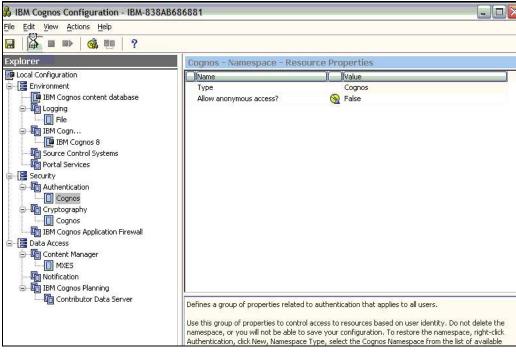
4D2. Copy the images directory to a new folder you create in Cognos per path below: <Cognos>\c8\webcontent\tivoli\tcr_common\images

5. Create 2 Namespaces in Cognos Configuration for Security and Metadata

The Cognos namespace contains the Cognos Objects, such as groups, roles, data sources and contacts. In the Maximo Cognos Integration, two namespaces are required. One namespace is for the Security Group authorization, which will be enabled thru the CSP, Custom Security Provider. The second namespace is for authentication used during the metadata publishing process. More information on namespaces can be found via the url below.

<u>http://bit.ly/gMKzPr</u>

5A. First, a namespace which will be used for Security Group Authorization using the CSP, will be created. To create the first namespace, access Cognos – Cognos Configuration from your Program Menu. In the Explorer View on the left hand side, navigate down to Security – Authentication.



5B. Click on New Resource - Namespace.

💑 IBM Cognos Configuration - IBM-838AB6	36881	
<u>File Edit View Actions Help</u>		
Explorer	Authentication - Component Prope	erties
🔤 Local Configuration	Name	Value
🖨 [🚍 Environment	Inactivity timeout in seconds	3600
IBM Cognos content database	Enable the encryption of passport cre	False
🛱 🖓 🖓 Logging	Allow session information to be shared	False
File	Restrict access to members of the buil	False
BM Cogn	Advanced properties	<click button="" edit="" the=""></click>
IBM Cognos 8		
Source Control Systems		
Portal Services		
🖨 [🚍 Security		
Authent'' Reset to Default Gog		
Gryptog New resource Mames	pace	
IBM Cognos Application Firewall		

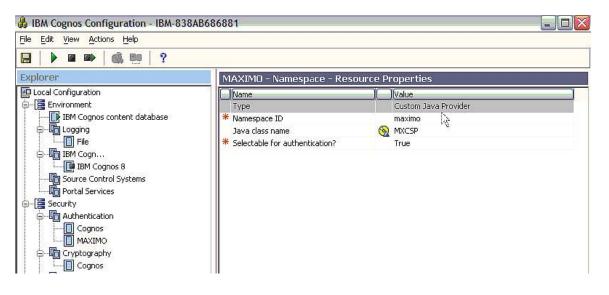
5C. Enter the values below to create the namespace. A dialog will then appear that the namespace is being created.

Type: Custom Java Provider

Namespace ID: maximo

Java Class Name: MXCSP*

Selectable for Authentication: True



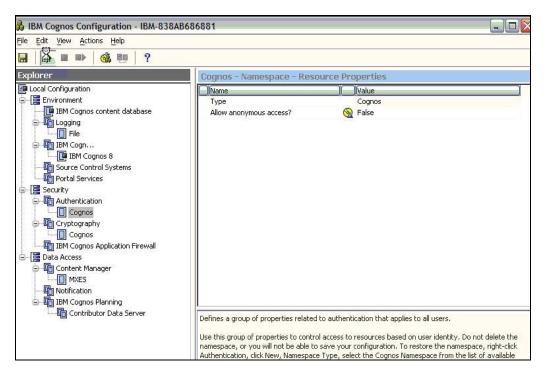
File Actions	<u>View</u> <u>J</u> o	bs Options	Help Buy I	low!									
New New	Open	Favorites	Add	Extract	Rail	Encrypt	View	CheckOut	Wizard Y	View Style			
Address 1													
olders			×	Name -	h.:				Type	Modified	Size	Ratio	Packed
🗐 [CAM_AA	A_MXCSP.j	ar]		META	INF				Folder	8/28/2009 10:42 AM		_	
MET/	-INF			Accou	nt.class				CLASS File	8/20/2009 2:56 AM	3,313	0%	3,313
				Crede	ntial.dass				CLASS File	8/20/2009 2:56 AM	1,230	0%	1,230
				Iog4jL	ader.dass				CLASS File	8/28/2009 10:42 AM	1,358	0%	1,358
				loggin	g.properties				PROPERTIE	8/27/2009 11:40 AM	805	0%	805
				MXCS	.class				CLASS File	8/28/2009 10:42 AM	7,369	0%	7,369
				MXDriv	er.dass				CLASS File	8/28/2009 10:42 AM	3,628	0%	3,628
				MXTok	enValidator.	class			CLASS File	8/28/2009 10:42 AM	2,144	0%	2,144
				MXUtil	.class				CLASS File	8/28/2009 10:42 AM	8,511	0%	8,511
				MXVisa	.class				CLASS File	8/28/2009 10:42 AM	3,726	0%	3,726
				Names	pace.class	2			CLASS File	8/20/2009 2:56 AM	3,699	0%	3,699
			1	Role.c		<i>u</i>			CLASS File	8/20/2009 2:56 AM	860	0%	860
				Truste	dCredential.	class			CLASS File	8/20/2009 2:56 AM	266	0%	266
				JUiClas	s.class				CLASS File	8/20/2009 2:56 AM	2,216	0%	2,216
				Visa.d					CLASS File	8/20/2009 2:56 AM	2,232	0%	2,232

*Note: This correlates to the MXCSP.class file in the CAM_AAA_MXCSP.jar

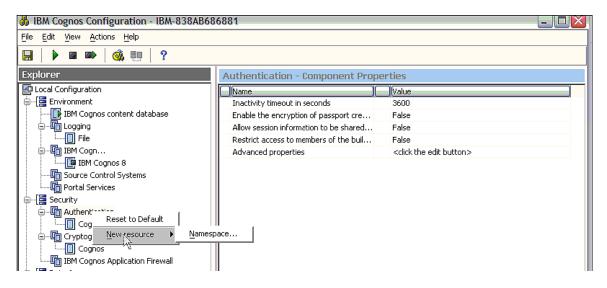
5D. Once the namespace has been created, make sure the Anonymous Authentication is set to false (or disabled).

👶 IBM Cognos Configuration - IBM-838AB68	36881	
<u>File Edit View Actions H</u> elp		
Explorer	Cognos - Namespace - Resource Properties	
Local Configuration Environment IBM Cognos content database IBM Cognos content database IBM Cognos 8 Source Control Systems Portal Services Security Cognos Cognos IBM Cognos Application Firewall	Name Value Type Cognos Allow anonymous access? S	

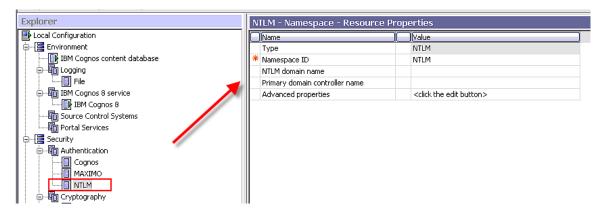
5E. Next, create the second namespace to be used for authentication during the Maximo publishing process. Within the same Explorer View of Cognos Configuration on the left hand side, navigate down to Security - Authentication.



5F. Click on New Resource - Namespace.



5G. Enter values below to create the namespace. Supported types for this release are NTLM and LDAP. The example shown here is for NTLM.



LDAP - Namespace - Resource Properties Value Name LDAP Туре * Namespace ID LDAP Host and port 9.28.228.99:389 * Base Distinguished Name ou=SWG,o=IBM,c=US 强 (cn=\${userID}) User lookup Use external identity? 强 True 🛞 (uid=\${environment("REMOTE_USER")}) External identity mapping **** Bind user DN and password Size limit 🚱 (O 🗑 0 Time out in seconds 🛞 True Use bind credentials for search? Allow empty password? False Unique identifier dn Data encoding UTF-8 SSL certificate database Advanced properties <click the edit button> Folder mappings (Advanced) 🚱 organizationalunit, organization, container Object class Description description Name 强 ou,o,cn Group mappings (Advanced) 强 groupofnames Object class Description description Member 强 member Name cn Account mappings (Advanced) Account object class inetorgperson Business phone telephonenumber Content locale 3 Description description Email mail Fax/Phone facsimiletelephonenumber Given name givenname Home phone homephone Mobile phone mobile Name 🚱 displayName Pager phone pager Specifies a unique identifier for the authentication namespace.

An example of a LDAP Namespace Resource Properties is shown here.

Cognos Namespace Reference Materials

For additional information on how to configure Cognos NTLM or LDAP namespace properties, refer to the "IBM Cognos 8 Business Intelligence Installation and Configuration Guide" document. This is located at:

http://bit.ly/mTNflH

6. Configure Maximo Properties in Maximo System Property application

These property values are required so Maximo can pass the correct information to Cognos.

6A. Log into V75 as the System Administrator. Go to the System Properties application.

6B. Locate the Cognos Property Values by selecting filter, and in the property name field, enter Cognos. The 7 Cognos Property values below display. Configure these values for your unique environment. Details on these are below.

Syste	m Proper	ties	<u>B</u> ulletins: (0)
ielect /	Action		
Glo	bal Prope	rties 🔽 Filter > 🔍 🗐 섍 🏠 🦊 🚺 1 - 7 of 7	
	~	Property Name 🌲	Description
		cognos	
		mxe.report.cognos.content.store.package.loca	Content store folder where the cognos packag
		mxe.report.cognos.datasource	Maximo data source name that is used by Cog
		mxe.report.cognos.db.schemaName	Maximo database schema name that is used b
		mxe.report.cognos.db.sql.name	The Maximo database name in case the datab
		mxe.report.cognos.db.type	Maximo database type that is used by Cognos
		mxe.report.cognos.namespace	Cognos Namespace which holds information o
		mxe.report.cognos.serverURL	Cognos Dispatcher/Gateway URI, It is used to

Property Name	Description	Used By
mxe.report.cognos.serverURL	Cognos Dispatcher/Gateway URI. It is used to launch Cognos reports. This is used for V7 to access the Cognos Application. For example: http://myhost:port/p2pd/servlet/dispatch	Integration for Report Execution
mxe.report.cognos.namespace	/ext Cognos Namespace which holds information on Users, Security Groups and Roles.	Integration for Report Execution
mxe.report.cognos.content.store.packag e.location	Content store folder where the cognos package will be published.	Package Creation
mxe.report.cognos.datasource	Maximo data source name that is used by Cognos adapter	Package Creation
mxe.report.cognos.db.schemaName	Maximo database schema name that is used by Cognos adapter	Package Creation
mxe.report.cognos.db.type	Maximo database schema name that is used by Cognos adapter for both publishing packages and executing reports	Package Creation and for Report Execution
mxe.report.cognos.db.sql.name	For clients using a SQL Server Database, this is the catalogue name associated with the database	Package Creation

mxe.report.cognos.serverUrl The URL path to the Cognos Dispatcher URI (or Gateway URI). This is used for V75 to access the Cognos applications. For example: http://myhost:port/p2pd/servlet/dispatch/ext

The value of the mxe.report.cognos.serverURL is the complete path to the Gateway, as highlighted below from Cognos Configuration.

Gateway Settings		
* Gateway URI		http://vm-win05.lon.swg.ibm.com:80/cognos8/cgi-bin/cognos.cgi
Gateway namespace		
Allow namespace override?		False
* Dispatcher URIs for gateway	<u> </u>	http://vm-win05.lon.swg.ibm.com:9081/p2pd/servlet/dispatch/ext
* Controller URI for gateway	8	http://vm-win05.lon.swg.ibm.com:80/cognos8/controllerServer
Dispatcher Settings		
* External dispatcher URI	3	http://vm-win05.lon.swg.ibm.com:9081/p2pd/servlet/dispatch
* Internal dispatcher URI	<u> </u>	http://vm-win05.lon.swg.ibm.com:9081/p2pd/servlet/dispatch
Dispatcher password		*****

Note additional details on this property setting:

1. If Cognos isn't deployed to a webserver (running on Tomcat) then the URI must point to the cgi

Ex. http://9.28.228.104:80/cognos8/cgi-bin/cognos.cgi

2. If Cognos is deployed to a webserver, the serverURI can be changed to point directly to the 'Dispatcher URI for gateway'. This configuration option can be used when using a dedicated dispatcher. A client may have multiple Dispatcher URI's deployed (IBM Cognos 8 ear/was) using the same Content Store, but different namespaces to balance the report load.

Ex. http://9.28.228.104:9080/p2pd/servlet/dispatch/ext

An Example of this is: WAS 9080 with namespace 'maximo' only WAS 9081 with namespace 'ldap' only WAS 9082 with namespace 'HR' only

3. If you are utilizing TCR and its prerequisite for LDAP Authentication, you can set this property to either prompt the user for a separate signon when accessing Cognos, or not.

More details on this are in the 'Troubleshooting Tips' Section below.

mxe.report.cognos.namespace This is the Cognos Namespace for the CSP, Custom Security Provider. This Namespace was what you created in Step #5 in this document. The example here uses a namespace value of 'maximo'. *NOTE: This value is case sensitive.

mxe.report.cognos.content.store.package.location and mxe.report.cognos.datasource

The content store package location and data source properties will be overridden by the corresponding end point properties.

The intention from those properties is that the user can replace the Cognos end point in the invocation channel with the XML File end point. This will produce an action log file, which can be used to manually publish its associated metadata by using the BmtScriptPlayer.exe located in <Cognos SDK Installation Directory>\bin

mxe.report.cognos.content.store.package.location A location under the Cognos Content Store PUBLIC folder where the metadata package will be created. The package location specified in this property MUST exist in the Cognos Content Store, under the PUBLIC folder BEFORE initiating the publish process. This property will be overridden by the CONTENT_STORE_PACKAGE _LOCATION property specified in the MXCOGNOS end point

mxe.report.cognos.datasource Defines the data source to which the metadata package will be associated with. This property will be overridden by the DATA_SOURCE_NAME property specified in the MXCOGNOS endpoint. This is the datasource that you will create in Step 7 below.

mxe.report.cognos.db.type. This property can have 1 of the 3 Values below

"DB2" for DB2

"OR" for ORACLE

"SS" for SQL-Server

mxe.report.cognos.db.sql.name Required system value for installations running SQL Server database. Identifies the catalogue name associated with the database

mxe.report.cognos.db.schemaName. Required system value that defines the database schema name from which the metadata will be extracted.

6C. Next, if you are using MXCSP for authentication, you must review the additional property setting mxe.rest.webappurl. This property setting is used for token authentication.

elect Action	🕞 🗟 🥒 😂 🚱			
Global Prop	erties : ♥ Filter > Q, : 2 - 1 - 1 of 1 →			
	Property Name 🔶	Description		Current V
	mxe.rest.webappurl			
	mxe.rest.webappurl	Token Authentication Web Application URL.		
Global Propert	ies Details			
		/		
	_{B:} mxe.rest.webappurl	File Override?	Security Level: SECURE	Q
Property Name		File Override? 📄 Global Only? 🗹	Security Level: SECURE	Q
Property Name	9: mxe.rest.webappurl 1: Token Authentication Web Application URL		Construction - Construction - Construction	Q
Property Name * Description	9: mxe.rest.webappurl 1: Token Authentication Web Application URL.	Global Only? 🖌	User Defined?	Q
Property Name * Description Global Value	9: mxe.rest.webappurl 1: Token Authentication Web Application URL. 5:	Global Only? 🔽 Instance Only? 🗌	User Defined?	

The value of mxe.rest.webappurl is the URL for the maxrest application that validates the token issued by the Version 7 instance.

By default, if your Version 7 URL for example is: http://devserver1:9998/maximo then your REST URL would be: http://devserver1:9998/maxrest

Notes:

1. If you define this property setting, be sure to include the maxrest application context path in the setting as highlighted below in red

http://<V7Server>:<port>/maxrest

2. This property is not required. If it is not set, it will use the default value.

• With the default value, Cognos will authenticate by taking the base V7 URL like http://devserver:9998, and append "maxrest", for a final value of http://devserver:9998/maxrest.

Troubleshooting Tips - TCR

1. If you are utilizing TCR and its prerequisite for LDAP Authentication, you have three different namespace property setting options.

A. You can use the Idap namespace instead of the CSP. In this scenario,

mxe.report.cognos.namespace would be the ldap namespace mxe.report.cognos.serverURL would be "http(s)://IP:Port/tarf/servlet/component"

B. You can use the CSP with an extra Idap security layer. This configuration would present an additional username and password log in before accessing the Cognos Portal. In this case,

mxe.report.cognos.namespace would be the CSP namespace
mxe.report.cognos.serverURL would be "http(s)://IP:Port/tarf/servlet/component"

You may have to configure the LDAP repository on the TIP portal with this option. Otherwise, you cannot use your Maximo user account when logging in to the Cognos Administration tools. This configuration however, is not required when executing reports.

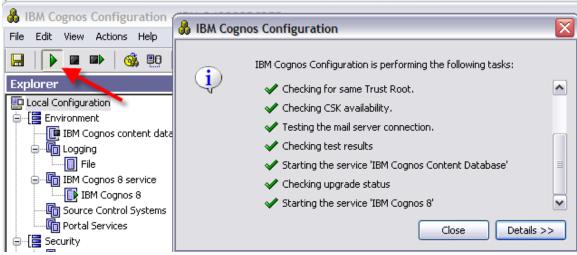
C. You can use the CSP only. This configuration would *not* present an additional username and password log in before accessing the Cognos Portal from Maximo.

mxe.report.cognos.namespace would be the CSP namespace mxe.report.cognos.serverURL would be "http://IP:Port/cognos8/cgi-bin/cognos.cgi"

*More details on these system property values are in the next section below, and also in the separate TCR section at the end of this document.

7. Create a Data Source in Cognos Administration

This Data Source will be used to develop reports in Report Studio and Query Studio, and also to execute the reports at run time. To create the Data Source, first access and confirm you can get to Cognos from Maximo.



1. First, make sure the Cognos server is started.

2. Next, log into Maximo as a user with both report administration privileges and security privileges to execute the Cognos Reports. In the example below, this will be user Wilson, who is the Maximo Administrator.

3. Insure you can launch directory to Cognos from Maximo. Access Maximo's Report Administration application. From the action menu, select 'Launch Cognos Administration'

💌 Find:	elect Action
List Report Security Performance	View Report Processing View Scheduled Reports Set Application Security Set All Application Security Set Report Schedule Limits View Group Security View Library File Set Report Object Structure Security Configure Data Sources
-	Launch Cognos Administration
	Run Reports

ou to u sep		i where coyn	3 Auministi ution is displayed.
			WILSON Log On 🕶 🔯 👔 🕈 🕇 🛨 Launch 👻 📍
Configuration			3
Current Activities - Bac	ground activities		······································
	Total (0)		
Pending 0			
Executing 0			
Waiting 0			
Suspended 0	5 10	15	
			Entries: -
🔲 Name			Request time ≑ Run by Status ≑ Priority ≑
		No entries.	
Last refresh time: January 18, 201	0 9:10:29 AM		
	Configuration Current Activities - Back Pending 0 Executing 0 Wating 0 0 U I I I Name	Configuration Current Activities - Background activities Pending 0 Pending 0 Walking 0 Suspended 0 5 10	Current Activities - Background activities Total (0) Pending Uvating Suspended 0 5 10 15 No entries.

This will take you to a separate browser session where Cognos Administration is displayed.

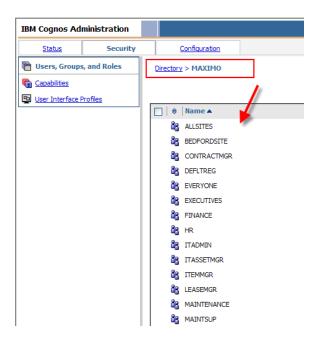
*NOTE: If you receive an error when trying to access Cognos from Maximo's Report Administration Application, you can enable logging to troubleshoot this issue. An example of an error you may see is: "You can only use this namespace from a valid Maximo session"

You can enable the logging features by referencing the details under the Troubleshooting Tips Section, Maximo Logging Features.

To verify the CSP is bringing over the Maximo Users and Security Groups, click on the Security Tab. The Maximo Group (or your selected namespace value) will display.

Status Security Configuration Users, Groups, and Roles Directory Configuration Gasebilities Image: Configuration Image: Configuration				
Bisers, Groups, and Roles Directory C © Casabilities Entries: 1 - 3 ○ (((((((((((((((((((((((((((((((((IBM Cognos Administration		WILSON Log On 🕶 🚺 🕋	• 🖁 • <u>Launch</u> • ? •
Coophilies Entries: I - 5 C I (4(4))) User Interface Profiles Photenet Active Active I (4) Name A Modified P Active Active I (4) Name A I (4) Name A I (4) Name A I (4) Name A I (4) Name A I (4) Name A I (4) Name A I (4) Name A I (4) Name A I (4) Name A I (4) Name A I (4) Name A I (5) NTLM I (4) Name A I (4) Name A I (4) Name A I (5) NTLM I (5) NTLM I (4) Name A I (4) Name A	Status Security	Configuration		•
Entries: 1 - 3 ♥ << Buser Interface Profiles Modified ♥ Active Active © Connes January 18, 2010 9:05:24 AM ✓ Ш More MAXIMO January 18, 2010 9:05:24 AM ✓ Ш More January 18, 2010 9:05:24 AM ✓ Ш More MAXIMO January 18, 2010 9:05:24 AM ✓ Ш More January 18, 2010 9:05:24 AM ✓ Ш More	🖶 Users, Groups, and Roles	Directory		🛃 Q.
Image: Second and a	Capabilities			
Sciences January 18, 2010 9:05:24 AM • If More Sid MAXIMO January 18, 2010 9:05:24 AM • If More Sid NTLM January 18, 2010 9:05:24 AM • If More	User Interface Profiles		Entries: 1 - 3	
값 MAXIMO January 18, 2010 9:05:24 AM ··· 답 More 값 NTLM January 18, 2010 9:05:24 AM ··· 답 More	,	□ \$ Name ▲	Modified \$	Active Actions
💕 NTLM January 18, 2010 9:05:24 AM 🖌 🖬 🗠 💼		G Coanos	January 18, 2010 9:05:24 AM	✓
		AXIMO	January 18, 2010 9:05:24 AM	✓ 📑 More
Last refresh time: January 18, 2010 9:13:24 AM		S NTLM	January 18, 2010 9:05:24 AM	✓ More
		Last refresh time: January 18, 2010 9:13:24 AM		

And if you select it, you should see the Maximo Security Groups and users.



*NOTE: For details on configuring Cognos Functional Access for the Security Groups, reference the 'Maximo Cognos Integration Guide' referenced at the end of this guide.

7A. Click on the Configuration tab and highlight Data Source Connections.

Nork with repo	orts		-		
IBM Cognos Administration			🚭 🔐 🕤 8 - Launch 🖇		
Status	<u>Security</u>	Configuration			
Data Source C	onnections	Directory > Cognos	👔 📑 📑 🖉		
Content Administ			Entries: 1 - 1 O (4 (4)))		
Printers		□ \$ Name ▲	Modified Actions		
S Styles		servletInventory	August 13, 2009 6:54:46 PM More		
Portlets Dispatchers and	Services	Last refresh time: August 19, 2009 1:36:07 PM			

7B. Click on the new Data Source Icon [©] . Enter the name of your database in UPPERCASE. In this example, the database name is HARRIER. Click Next.

Work with reports		_ 0
IBM Cognos Administration		🛃 û - ← 8 - Launch - 🤋 -
Status Security	Configuration	4
Data Source Connections	Specify a name and description - New Data Source wizard	<u>Help</u> X
Content Administration	Specify a name and location for this entry. You can also specify a description and screen tip.	
Distribution Lists and Contacts	Name:	
Printers	HARRIER	
₩S <u>Styles</u>	Description:	
Portlets	~	
Dispatchers and Services		
	×	
	Screen tip:	
	Location:	
	Directory > Cognos	
	Cancel < Back	

7D. Select a Database Type. In this example, the database type is DB2. Click Next.

Specify the connection - New Data Source wizard	<u>Help</u>	×
Specify the parameters for the connection of this new data source. The name of the data source is used to set the name of the connection.		
Type: D82		
Isolation level:		
Use the default object gateway Specify a value:		
Cursor stability		
Cancel < Back		

7E. Enter your DB2 database name. Check password under the Sign On Section, and then enter User ID and Password.

Specify the DB2 connection string - New Data Source wizard
Edit the parameters to build a DB2 connection string,
DB2 database name:
db2ascii
DB2 connect string:
Collation sequence:
Open asynchronously
Trusted context
Timeouts
Specify the time in seconds, in which you want the database to connect or wait for your reply before timing out.
Connect time:
0
Reply time:
0
Signon Select whether or not authentication is needed, and if so, the type of authentication to use, whether a password is required and whether to create a signon.
No authentication
An external namespace:
VMMProvider (Active)
Signons
V Password
Create a signon that the Everyone group can use:
User ID: maximo
Password:
•••••
Confirm password:
•••••

7F. Scroll down and click Test the connection...



Test the connection - New Data Source wizard
Test the parameters that make up the database connection.
Connection string: ^User ID: ^?Password:;LOCAL;D2;DSN=db2ascii;UID=%s;PWD=%s;@ASYNC=0@0/0@COLSEQ= Test
Dispatcher: http://fsafstro:16345/tarf (Configuration) Test the connection using: User ID:
maximo
Password:
Close

7G. You should then receive a message that the test was completed successfully.

View the results - Test the connection			
> Name	Status	Message	
ightarro: 16	345/tarf Succeeded		
Close			

7H. Click Close twice to get back to the "Specify the DB2 connection string - New Data Source wizard" screen. Click Finish.

Your Data Source is now configured.

Troubleshooting Tips

Missing dll's

If you test your Data Source Connection, and it displays a message that there are missing dll's, follow the steps below

For Oracle: Copy the oci.dll from the client install of Oracle to <Cognos>\c8\bin

For DB2: Copy all dll's from the client install of DB2 to <Cognos>\c8\bin

8. Configure Cognos SDK for Metadata

To enabling the publishing of the Report Object Structures as Cognos Packages, Cognos SDK Files will be used. In these next steps, the Cognos SDK JAR files will be added to the classpath of the application server.

If you are using Websphere Application Server

Copy the following jars from <Cognos SDK Installation Directory>\sdk\java\lib to the application server lib directory:

- 1. cognos-axis.jar
- 2. cognosClient.jar

NOTE: After the jar files are copied, restart the Application Server.

If you are using BEA Weblogic Application Server

Add the following jar files to the server classpath:

- 1. cognos-axis.jar
- 2. cognosClient.jar
- 3. commons-logging.jar
- 4. commons-discovery.jar
- 5. xercesImpl.jar
- 6. xalan.jar
- 7. log4j-1.2.13.jar

The first 6 jar files are located in <Cognos SDK Installation Directory>\sdk\java\lib.

The last jar can be found in <V7>maximo\applications\maximo\lib.

NOTE: After the jar files are copied, restart the Application Server.

For Tivoli Common Reporting Users, the jar files are located at:

http://www.ibm.com/eserver/support/fixes/fixcentral/swgquickorder?fixes=1.3.0.0-TIV-TCR-IF0001&productid=IBM%20Tivoli%20Common%20Reporting&brandid=4

or

http://ibm.co/kyoVdy

9. Set End Point properties

The end point functionality is utilized within V75 to provide an interface for Cognos metadata creation and package publishing. To enable this functionality, values within this V75 application need to be defined. Follow the steps below to enable this.

9A. Login to the V75 application with Administrative Privileges. Access the Integration -End Points application.

9B. Access the End Point Name, MXCOGNOS.

9C. In the End Points details page, set the data source name, content store package location, Cognos server URL, project base directory, Cognos namespace id, Cognos username, and password.

End P	xints	Bulk	etins: (0) 🤝 🧟 To <u>R</u> eports Start <u>C</u> enter <u>P</u> ro	offle <u>S</u> ign Out <u>H</u> elp
List	Find: Find: Select Action End Point	P 🕇 🗟 🧶 🌩 🖚		
_		Handler: COGNOS	Consumed By: INTEGR/	ATIO
Pro	Property	Value	Encrypted Value	Allow Override
	CONTENT_STORE_PACKAGE_LOCATION	PUBLISH		
	DATA_SOURCE_NAME	DB2		
	NAMESPACE_ID	NTLM		
	PASSWORD			
	PROJECT_BASE_DIR	c:\IBM\cognos\My Projects\Metadata		
	URL	http://9.28.228.104:9080/p2pd/servlet/dispat		
	USERNAME	qaadmin		

Notes on Values:

CONTENT_STORE_PACKAGE_LOCATION: Folder where the package will be published on Cognos server. Identifies a location under the Cognos Content Store PUBLIC folder where the metadata package will be created. When provided, this end point property should override the system level value defined by mxe.report.cognos.content.store.package.location

Note: This folder must be created within Cognos before you publish packages. If you have not created one, follow the steps to do this at the end of this section.

*Additionally, the folder name cannot contain any spaces, or the publishing will fail.

DATA_SOURCE_NAME: Name of the data source you created in Step #7. Identifies the Data Source Connection to which the metadata package is associated with. When not provided the publishing process will use the mxe.report.cognos.datasource system property value.

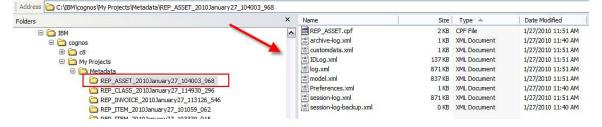
NAMESPACE_ID: Identifies the Cognos Security Namespace to be used when publishing Maximo metadata to a Cognos BI server where Anonymous Authentication has been DISABLED. This value should match the name of the namespace created in Step 5G. This is *not* the namespace defined in the property value: mxe.report.cognos.namespace **PROJECT_BASE_DIR**: Path on the Cognos Server where Cognos Framework Manager project files, associated with Maximo metadata, will be created.

For example: <C>:\IBM\cognos\My Projects\Metadata

The screen shot below shows how this project directory will be populated after the Cognos Packages are published.

	× Name 🔺
 □ IBM □ cognos □ My Projects □ Metadata □ REP_ASSET_2010January27_104003_968 □ REP_CLASS_2010January27_114930_296 □ REP_ITWOICE 2010January27_113126_546 □ REP_ITEM_2010January27_113059_062 □ REP_ITEM_2010January27_11505_463 □ REP_ITEM_2010January27_11503_843 □ REP_LOCATIONS_2010January27_115741_062 □ REP_PERSON_2010January27_10370_674 □ REP_PERSON_2010January27_103720_671 □ REP_RECEIPT_2010January27_113720_671 □ REP_SCURITY_2010January27_112523_796 	 REP_ASSET_2010January27_104003_968 REP_CLASS_2010January27_114930_296 REP_INVOICE_2010January27_113126_546 REP_ITEM_2010January27_101059_062 REP_ITEM_2010January27_10330_015 REP_JOBPLAN_2010January27_113741_0 REP_JOERATIONS_2010January27_115741_0 REP_PERSON_2010January27_102322_281 REP_RECEIPT_2010January27_11253_79 REP_SECURITY_2010January27_11253_79 REP_SLA_2010March10_084244_046 REP_SCUUTION_2010March10_102347_468 REP_USER_2010January27_114406_078 REP_WORKORDER_2010January27_110251_0

And this shows the file contents within the individual Cognos Packages.



*Note: If you want to open a Maximo published package in Cognos Framework Manager Tool at a future time, you can access the .cpf file in Framework Manager from this location.

URL: Identifies the URL to be used to establish a connection with Cognos Business Intelligence integration service.

The value to be used in this property is part of Cognos 8 configuration. It should be the Dispatcher URL (Gateway URL value should NOT be used). This Cognos 8 configuration value can be found in the "IBM Cognos Configuration" tool in the following path: Local Configuration -> Environment -> Dispatcher URI for external applications.

Note: This is not the same value set for the property file mxe.report.cognos.serverUrl

Other URI Settings	· · · · · · · · · · · · · · · · · · ·
* Dispatcher URI for external applications	http://localhost:9300/p2pd/servlet/dispatch 🥕
* Content Manager URIs	http://localhost:9300/p2pd/servlet

USERNAME: Username to be used when authenticating with Cognos Business Intelligence Server. The username value should comply with authentication requirements defined by MXCOGNOS NAMESPACE_ID definition: NTLM or LDAP.

For example: If NTLM with DB2 database, this is may be your Operating System user.

PASSWORD: Password for the Username defined above. This is used when authenticating against Cognos server. It should be set as encrypted value.

Reference: How to create a Folder Location in Cognos

A. Sign into the NTLM namespace. For example: http://localhost/Cognos8

These next steps detail how you can create a folder location in Cognos for the End Point Value: CONTENT_STORE_PACKAGE_LOCATION

Address 🖉 http://localhost/cognos8/cgi-bin/cognos.cgi?	b_action=xts.run&m=portal/main.xts&startwel=yes
Google	🖌 🔧 Search 🔹 🥠 🧔 🔹 🖶 🕇 🔲 Sidewiki
Log on	
Please select a namespace for authentication.	
Namespace: NTLM	
OK Cancel	

B. Once logged in, click on My home.

Address 🛃 http://l	ocalhost/cognos8/cgi-bin			
Google		~	Search 🔹	• Ø 🚳 • 🖬
IBM" CO	GNOS' 8			
My Conte	int	-	-	
	4			
	My home			
	IBM Cognos cont	ent		
Administ	ration			
99			120	
	Administer IBM C	ognos conter	it	

C. Next, you will create a new Folder, under the Public Folder Tab. To do this, click on the folder icon highlighted by the arrow.

IBM Cognos Connection	pdenny Log On 🔻 🔯 📔
De Public Folders My Folders	
Public Folders	Ent
□ Name ≑	Modified 🖨
	No entries.

D. Specify a folder name that does not contain any spaces. Click Finish.

*NOTE: If the folder name contains spaces, publishing of the Cognos packages will fail.

Address 🖉 http://localhost/cognos8/cgi-bin/cognos.cgi	
Google Search • • Ø &	T)
Specify a name and description - New Folder Wizard	
Specify a name and location for this entry. You can also specify a description and scree	en t
Name:	
publish	
Description:	
Screen tip:	
Location:	
Public Folders Select another location Select My Folders	
Cancel < Back	

E. You know have a new folder. This subfolder will be used to hold your published Report Object Structures, or Cognos Packages.

÷	Address 🖉 http://localhost/cogne	os8/cgi-bin/cognos.cg	ji?b_action=xts.run&m=port	al/cc.xts&m_folder=i5	32F0474C9A0441A	BACB5604BE8	CE08F
	Google		🖌 🔧 Search 🔹 🖓	ø•••	Sidewiki 🔹	ABC Check 🔹	âa Transl
	IBM Cognos Connection						
	Public Folders	My Folders					
	Public Folders		-				
	□ Name ♦						
	🔲 🗀 publish 🦳						

10. Publish Cognos Packages

Next, the Report Object Structures will be published as Cognos Packages.

10A. Log into V75 as the System Administrator. Access the Object Structure application, and select a Report Object Structure (ROS). ROS are identified as a 'Consumed By = Reporting'

**NOTES

It is HIGHLY recommended that the first time you publish a Cognos Package that you first work with a smaller package like REP_PERSON, REP_USER or REP_INVOICE. This will enable the publishing process to be proven out. Once you have successfully published a smaller package, then you can publish larger packages like Asset or Work Order.

In the example below, the Report Object Structure will be published as a Cognos Package.

10B. Select the REP_PERSON Report Object Structure. From the Object Structure Tab, select the Action menu. Select 'Publish as Cognos Package'.

	*	Find:		🔍 🔻 Sel	ect Action	-
Lis	t Object Structu	ure			Exclude/Include Fields	
	Object Structur * Consumed E Applicatio	re: REP_F		Person Deta Reporting	Inbound Setting Restrictions Generate Schema/View XML Add/Modify Alias Advanced Configuration Duplicate Object Structure Delete Object Structure	201
	bound Definition Clas				Add to Bookmarks Publish as Cognos Package	
So	urce Objects for F	REP_PERSO	DN 🕴 🕨 Filter 🔌	0121	🗣 📄 1 - 5 of 5	
So	urce Objects for F Object	REP_PERSC	DN D Filter >	0 .2 - t	1 - 5 of 5 Object Location Path	
12018		REP_PERSC		0 2 - t >>		
~	Object	+ 2			Object Location Path	
	Object PERSON	Q.	Parent Objec	»	Object Location Path PERSON	
So So So So So So So So So So	Object PERSON PHONE	_ _ Q _ Q	Parent Object	» »	Object Location Path PERSON PERSON/PHONE	

10C. Depending on the size of the ROS and the Network Connection, the publishing time of the package will vary. Once it has been completed successfully, a message will display.

_	1	Y Find:		🔥 🔽 Se	elect	Action 🛛 🔽 🚼 🛃 🧶 🛛 🌳 📝	0
Lis	st Object S	tructure					
_		Objec	t Structure	REP_PERSON		Person Details	
		Co	nsumed By	REPORTING	2	Reporting	
			Application	PERSON	0		
	Ou	tbound Defi	nition Class			🛡 System Message	
	Inb	ound Proces	ssing Class				
ш	rce Objects for I	REP_PERSO)N 🛛 💽 Filter	*	41	BMXAA7415E - Succeeded in publishing the O	Ibiost Structure as Cassas
	Object		Parent Ot	oject		Package.	oject Structure as cognos
	PERSON	P		1			
	PHONE	2	PERSON	1			ОК
	EMAIL	P	PERSON	1			
	SMS	P	PERSON	1		PERSON/SMS	SMS
	ASSETUSERCU		PERSON	2		PERSON/ASSETUSERCUST	ASSETUSERCUS

10D. Next log into the Cognos BI Server to see the newly created package(s). You can launch to Cognos as a Maximo User from the Report Administration application by selecting 'Launch Cognos Administration' from the Action Menu.

Report Administration Find:	🔍 🔻 Select Action
List Report Security Performance Q Advanced Search ▼ Save Query ▼ Reports ▼ Filter > Q 1 Report File Name	View Report Processing View Scheduled Reports Bookm Set Application Security Set All Application Security Set Report Schedule Limits View Group Security View Library File Set Report Object Structure Security Set Report Object Structure Security
	Launch Cognos Administration ew red
	Run Reports

10E. Once in Cognos, navigate to the Published Package Location. The published packages are available at the folder specified via the MXCOGNOS endpoint's CONTENT_STORE_PACKAGE_LOCATION property.

In the screen shot below, the Package Location was defined as 'publish'. Within this folder, there are a number of published packages, including the Person Package and the Work Order Package.

Note: The V75 packages are identified by the description of the ROS, MAXINTOBJECT.DESCRIPTION



Notes on Publishing Cognos Packages

Troubleshooting

1. If the publishing functionality fails, review the following items

<u>Creation</u>

The following system properties will cause package creation failures if not defined correctly mxe.report.cognos.db.schemaName mxe.report.cognos.db.sql.name mxe.report.cognos.db.type

Errors indicating this failure will appear in the application server log files. For Websphere, this is the systemout.log file located in:

<InstallDirectory >WebSphere\AppServer\profiles\AppSrv01\logs\server1

For Weblogic, publish errors will appear in the console, or in the BEA Server log.

AdminServer.log.

<u>Post</u>

Once the package is built, the metadata package is posted to the Cognos location specified in the end point (project_base_dir). (This value is set in Section 9 - Set End Point Properties)

If the publishing process fails, verify if the package has been created in this location.

If the package does not appear in this location, verify the End Point values are defined correctly. Also confirm the system properties above are defined correctly.

NAMESPACE_ID PASSWORD PROJECT_BASE_DIR URL USERNAME

Errors indicating this failure will appear in the application server log files. For Websphere, this is the systemout.log file located in:

<InstallDirectory >WebSphere\AppServer\profiles\AppSrv01\logs\server1

For Weblogic, publish errors will appear in the console, or in the BEA Server log.

AdminServer.log.

<u>Publishing</u>

Once the package is posted to the Cognos directory (project_base_dir), it will be moved/published/imported into Cognos where it will be validated against the database. If this fails, verify the below.

System Properties

mxe.report.cognos.content.store.package.location mxe.report.cognos.datasource

End Point Values

CONTENT_STORE_PACKAGE_LOCATION DATA_SOURCE_NAME

Note:

If end point values are populated, it will use their values. If no end point values are entered, it will use the system properties

Errors indicating this failure will appear in the application server log files. For Websphere, this is the systemout.log file located in:

<InstallDirectory >WebSphere\AppServer\profiles\AppSrv01\logs\server1

For Weblogic, publish errors will appear in the console, or in the BEA Server log.

AdminServer.log

Additionally, errors may display in the Cognos logs.

Publishing Package for Test Reports

1. Before going on to the next section to register the test reports, you must publish the Workorder Package (REP_WORKORDER.) This package is required for the test reports to execute. The Workorder package is a large package with multiple objects and attributes, so it will take longer to publish than a smaller package like REP_PERSON.

2. The Cognos Metadata publishing process V75 ONLY SUPPORTS column to column relationships (simple relationships). Therefore, you may find Report Object Structures included within V75 that are *not* supported for Cognos Publishing. These include (1) REP_ASSETACTIVITY and (2) REP_WOPLANACT.

▼ Fi	ind:	🔍 🔻 Select Action	📃 🔽 🔂 🖉
List Object Structure			
Object Structure:	REP_WOPLA	System Message	2
Consumed By:	REPORTING	C	
Application:	WOTRACK	BMXAA7412E - The report ob Cognos package because it c	ject structure cannot be published as a contains one or more complex
Outbound Definition Class:		relationships. Evaluate the relationships before publis	ationships that are used in your report hing the package.
nbound Processing Class:			OK

If you try to publish one of these unsupported packages, you will receive a message

For more details on the publishing process and the ROS it supports, see the 'Maximo Cognos Integration Guide' referenced at the end of this guide.

11. Register Cognos Reports in Maximo's Report Administration application

You may want to test that the integration has been set up properly by using two V75 Cognos test reports. These two reports utilize the REP_WORKORDER Package which you published in the step above. One report runs against the application query passed from Maximo (known also as a Launch in Context report), while the second report uses parameter values input by the user at run time.

Setup Steps:

A. Obtain a copy of these test reports, by accessing the ISM Library Site at url below

https://www-304.ibm.com/software/brandcatalog/ismlibrary/details?catalog.label=1TW10MA38

B. Download and save the reports and templates to your V75 directory

<v75>\reports\cognos\reports

Below you will find the steps to register these 2 reports so they can be visible from V75.

Report Administration Registration Steps:

11A. Sign into Maximo as a Report Administrator. Register each of the 2 Cognos test reports within the Report Administration application.

1. Work Order Listing by Status (No parameters defined)

File Name: Work Order Listing by Status

port Administr	ration				ВМХАА	42051 - Record has be		s: (0) 🛛 🤝	
	Find:		Select A	ction	- 1.	1 🥒 🔶 📓	8		
st Report	Security	Performance							
port File Name:	Work Order Li	sting by Status		Work Order Listing by S	itatus		Application:	WOTRACK	Q
Report Type:	COGNOS	Q					Report Folder:		
Imported by:							Last Import Date:		
Package Name:	Work Order D	etails	12				Package Location:	1	
ettings									
Limit Rec	cords? 🗌			No R	tequest Page?				
Max Record	d Limit:			Use W	/here Clause?				
Schedule	Only?			1	Display Order:				
Pr	Priority:			Toolb	oar Sequence:				
									Dire

2. Overdue Work Orders by Location (This report has a required parameter of Site)

File Name: Overdue Work Orders by Location

Report	Administr	ation								🤍 🤝 🧑 🔽				
						BMXAA42051 - R	ecord has been saved	d. :						
		Find:		🔍 💌 Select	Action	🖻 🔁 🖬 🥒	🗢 🏟 🗟 👘							
List	Report	Security	Performance											
Report	File Name:	Overdue Work	Orders by Location		Overdue Work Orders by L	ocation		Application:	WOT	RACK	0.			
Re	eport Type:	COGNOS		-				Report Folder:						
Im	nported by:						Las	st Import Date:						
Pack	age Name:	Work Order De	tails				Pack	kage Location:						
Settin	ngs													
Parar	neters	🕨 Filter 🔿 🗌		1 - 1 of 1									c ⊪ <u>Downlo</u>	ad
	Parameter N	lame			Attribute Name			Sequence	<u>e e l</u>	Display Name			Required	
~	site				siteid		88		1	Site			Z	

After registering these two test reports, generate the XML for them in the Report Administration application.

*Notes on Report Administration Registration:

- 1. When you register the reports, set the Report Type = Cognos.
- 2. Make sure to define the Package Name it utilizes.

3. Evaluate the Report Folder field. The Report Folder is the location of the report under the Package Name. It is an optional field, and by default, displays to the application name. If your report is directly located under the package, the report folder field should not be populated.

4. Evaluate the Package Location Field. The package location is the folder where the Cognos package is located. This means that if you have multiple folder locations within Cognos, you must specify which folder location your package is under.

The screen shot below shows the Cognos Home page with two folders: PRODUCTION and PUBLISH. In this scenario, you would need to specify the Package Location as either PRODUCTION or PUBLISH to indicate the location of the Cognos Package and report.

3M Cognos Connectio	UII
Public Folders	My Folders
Public Folders	
ablic Folders	
□ Name ≑	
□ Name ≑ □ ≧ PRODUCTION	(

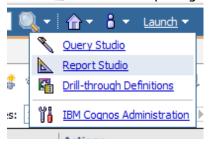
5. Make sure report security in Maximo is enabled for the new reports. This can be done by setting the security for the individual reports on the 'Security' Tab. Or it can be set by defining it via the Actions 'Set Application Security' or 'Set All Application Security' for the Work Order Application, and Cognos Report Type.

* The Security Group, MAXADMIN, does not automatically have security access to these Cognos reports.

12. Import Report Designs, Templates into Cognos. Test Integration

The last step is to import two report test design files and one template file into the Cognos application. These are the two test reports and templates that you downloaded and registered in the previous section.

12A. From the action menu in Maximo's Report Administration application, select 'Launch Cognos Administration'. Once in Cognos, go to the Home Portal Page. Navigate to locate the REP_WORKORDER package that you published in step 10.



12B. Next, launch Cognos Report Studio. The screen below displays. Select 'Create a new report or template'

Welcome	<u>Help</u>	×
IBM° COGNOS° 8 REPORT STUDIO		٦
Choose an option: Create a new report or template Open an existing report or template Show this dialog in the future		
-	Close	

12C. Select Blank. Notice the REP_WORKPORDERPackage is enabled.

ew		1		Help
Package:	×			
REP_WORKORDERPackage				
TCR Template Blank	List	Crosstab	Chart	Map
	ille De			
Financial Repeater Ta	adie Re	port Template	Existin	g
		F	ĸ	Cancel

12D. Import the Work Order Listing Report first. Navigate to the location where you stored your downloaded report

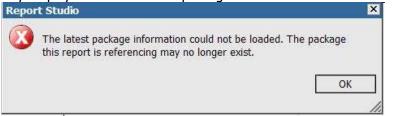
<V75>reports\cognos\reports and highlight wotrack.xml.

12E. Open up the wotrack report xml file in a text editor. Copy its entire contents.

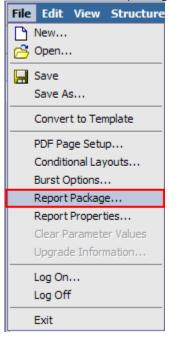
12F. Go back to Cognos Report Studio. From the menu, select Tools -> Open Report from Clipboard. This will bring the report xml file from memory into Report Studio.

File Edit View Structure Table Data Run	Tools Help
🗅 💪 🖬 🐰 🖻 🛍 🗙 🗠 രା 🐖 🏧	🖬 Validate Report
	Validate Options
Font Size A B	Auto Correct
Insertable Objects	Show Generated SQL/MDX
□-週 REP_WOPackage	Em. Show Specification
Business Logic View	Show Specification (Selection)
	Open Report from Clipboard
	Copy Report to Clipboard
	Manage Conditional Styles
	Layout Component Cache
	📑 Build Prompt Page
	Options

The screen should refresh with the content of the report. Additionally, the error message may display. Click OK as the package will be referenced in the next steps.



12G. To include the package, from the menu, Select File -> Report Package

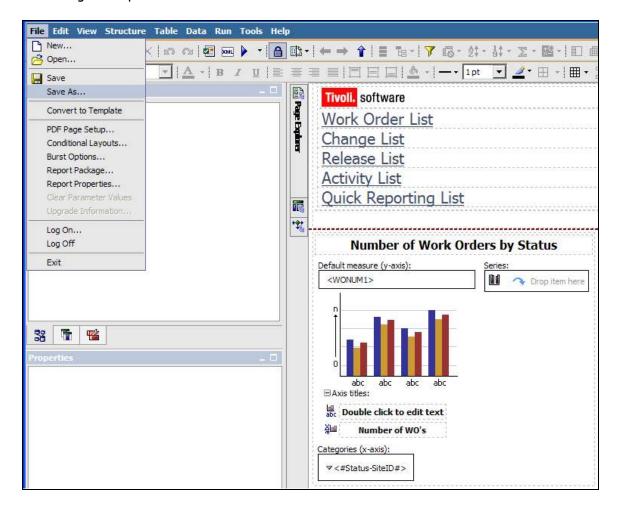


Navigate to the location of the Report Package the report design uses. Click OK.

Report Package	Help	×
Select: C The current package:		_
REP_WORKORDERPackage Image: Constraint of the second sec		
Language: English (United States) OK Car	ncel	

ote: You may receive warning messages similar to what are shown be	low.
/alidation Response	
 ▲ QE-DEF-0469 QE Message:RQP-DEF-0104 Warning: There is a cross join for the user ▲ QE-DEF-0469 QE Message:RQP-DEF-0104 Warning: There is a cross join for the user ▲ QE-DEF-0469 QE Message:RQP-DEF-0104 Warning: There is a cross join for the user ▲ QE-DEF-0469 QE Message:RQP-DEF-0104 Warning: There is a cross join for the user ▲ QE-DEF-0469 QE Message:RQP-DEF-0104 Warning: There is a cross join for the user 	
🗈 📭 Select Error Details Query Details	
	Close

12H. The Work Order Listing report is now available. Save this by selecting File - Save as, and saving the report as wotrack.



12I. Repeat this process for the second report test file, wo_overdue_by_location.

12J. Next, import the Maximo template. This template can be used as a starting point for creating custom Cognos reports.

To import the Maximo template, follow the same process as importing the Maximo reports. Open the maximo_template.xml file in Notepad, and copy/paste it into Report Studio. You can then save it in an existing folder, or create a new one called 'TEMPLATES' to find it quicker.

ІВМ С	ognos Connection
	Public Folders My Folde
Public I	olders
	Name 🕀
	PRODUCTION
	PUBLISH
	<u>STAGING</u>
	TEMPLATES

Install Test

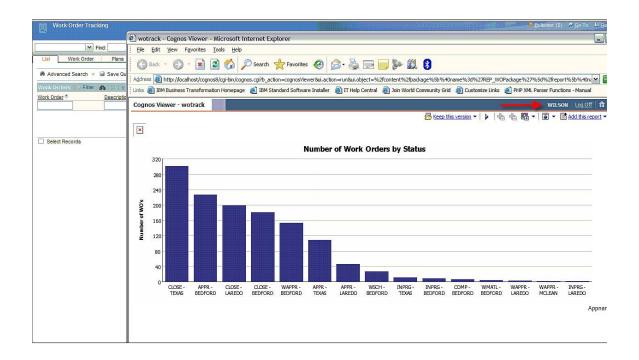
This last section will confirm that the integration has been successfully installed.

Next, go back to Maximo and test the report integration. Access the Work Order Tracking application, and select 'Run Reports' from the Menu. Select the Cognos Work Order Listing by Status report.

*Note: You can also do this by staying in the Report Administration application. Access either of the Cognos Test reports, and click 'Preview' to execute them directly.

Work Ord	ler Tracking		
	Find:	🕅 🔝 Select Action 🛛 😧 📄 🥥 I 🥥 🔍 🖓 🎇 🖓 I 🔨 I 🖌	/ 📖 🥥
List Wor	k Order Plans Re	lated Records Actuals Safety Plan Log Failure Reporting	Specificatio
Advanced Se	arch 🔻 🗟 Save Query 🔻 4	2 Bookmarks	
Work Orders	Filter (🚯 🕐 🗐 🐇 🛶 1	Reports	3
Work Order	Description		Status
			=appr
1002	Rebuild Feedwater Pur	Select a report from the list, or click Create Report to create an ad hoc report.	APPR
1006	Feedwater Pump Service	Select a report from the list, or click Create Report to create an ao noc report.	APPR
31150	11430 prob work	On Demand Reports Scheduling Status	APPR
31250	11200 prob work		APPR
31755	11300 prob work-see mill	Reports to Run 🛛 🛊 Filter 🚜 📰 🛊 🦆 🛶 1 - 5 of 9 🧈 📴 <u>Download</u> 🤌 🚍	APPR
40060	Inspection	Description	APPR
40092	ROUTINE MAINTENANCE		APPR
40093	MAINTENANCE	Overdue Work Orders by Location	APPR
<u>40101</u>	ROUTINE MAINTENANCE	Work Order Listing by Status	APPR
40111	ROUTINE MAINTENANCE	Estimated vs Actual Work Order Costs	APPR
40112	MAINTENANCE	Open Work Orders and PM	APPR
40121	Inspection and Certificatio	Work Order Details	APPR
40122	Inspection		APPR
40123	Inspection and Certificatio		APPR
40124	ROUTINE MAINTENANCE		APPR
41011	Inspection	Create Report Cancel	APPR
41012	ROUTINE MAINTENANCE	All deals - Stream	APPR
41013	R&R	BR430 11430	APPR
41021	Inspection and Certification	n RD430 11430	

Click Submit on the Request Page and the Cognos report displays in a separate browser.



Notes on Executing Cognos reports from Maximo

Troubleshooting

1. If the you are unable to execute Cognos reports from the V7 environment, review the following property files to insure they are defined correctly

mxe.report.cognos.namespace mxe.report.cognos.serverURL

Errors indicating this failure will appear in the application server log files. For Websphere, this is the systemout.log file located in:

<InstallDirectory >WebSphere\AppServer\profiles\AppSrv01\logs\server1

For Weblogic, publish errors will appear in the console, or in the BEA Server log.

AdminServer.log

Additionally, the MXCSP log called JDBC.log located c:temp\log, will detail the errors. Steps to enable this log file are in the next section below.

Troubleshooting Tips: Logging Features

Maximo Logging Features

To troubleshoot the integration between Maximo and Cognos, follow the steps below to initiate additional logging features.

A. First, insure there is a temp directory under the root. Then, create a log subfolder under it. So, you will have a path like:

c:\temp\log

- B. Shut down Cognos.
- C. Navigate to the location of the csp jar file on Cognos: CAM_AAA_MXCSP.jar

<Cognos>\c8\webapps\p2pd\WEB_INF\lib

D. Open up the jar file using Winzip

[CAM_AAA_MXCSP.jar]	logging.properties	PROPERTIE	1/14/2010 1:53 PM	801	59%	330
META-INF	MXVisa.class	CLASS File	11/19/2009 12:53 AM	3,955	0%	3,955
	MXUtil.dass	CLASS File	11/19/2009 12:53 AM	9,018	0%	9,018
	MXTokenValidator.class	CLASS File	11/19/2009 12:53 AM	2,133	0%	2,133
	MXDriver.dass	CLASS File	11/19/2009 12:53 AM	3,628	0%	3,628
	MXCSP.class	CLASS File	11/19/2009 12:53 AM	8,134	0%	8,134
	🔊 log4jLoader.class	CLASS File	11/19/2009 12:53 AM	1,358	0%	1,358
	i Group.dass	CLASS File	11/18/2009 11:08 PM	863	0%	863
	🖉 Visa. dass	CLASS File	9/15/2009 2:59 PM	2,226	0%	2,226
	JUClass.dass	CLASS File	9/15/2009 2:59 PM	2,207	0%	2,207
	Marked Credential. class	CLASS File	9/15/2009 2:59 PM	266	0%	266
	Nole.class	CLASS File	9/15/2009 2:59 PM	857	0%	857
	Namespace.class	CLASS File	9/15/2009 2:59 PM	3,692	0%	3,692
	🔊 Credential.class	CLASS File	9/15/2009 2:59 PM	1,224	0%	1,224
	Account.dass	CLASS File	9/15/2009 2:59 PM	3,307	0%	3,307
	META-INF	Folder	11/19/2009 12:53 AM			

E. Then, open up the logging.properties file.

F. Change the first 2 lines of the properties file by modifying the location of the # sign to what is shown below highlighted in red.

🖹 logging.properties - WordPad
File Edit View Insert Format Help
log4j.rootLogger=ERROR, A1, A2 #log4j.rootLogger=ERROR
<pre># / # ~~ Output destinations or appenders #</pre>
A1 is set to be a ConsoleAppender which outputs to System.out. log4j.appender.A1=org.apache.log4j.ConsoleAppender log4j.appender.A1.layout=org.apache.log4j.PatternLayout
log4j.appender.A1.layout.ConversionPattern=%d{dd MMM yyyy HH:mm:ss:SSS} [%-2p] %m%n

G. Save the change, close the file. Restart Cognos.

H. Then, try to enable the integration again - either by running a report directly from Cognos - or by accessing Cognos from the Maximo Report Administration application. A detailed log file called JDBC.log will be available under: c:temp\log

Cognos Logging Features

Additional Cognos log files can also be used to troubleshoot the integration. The Cognos Log file you should use is cogserver.log located in <Cognos>\c8\logs

🚞 C:\IBM\cognos\c8\logs			N		
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	<u>H</u> elp		И		
🔇 Back 👻 🕤 👻 🏂 🔎 Search 🧜	🏷 Folders 🛛 🛛	🕹 🌛 🗙 🍤 🛛			
Address 🛅 C:\IBM\cognos\c8\logs					
Name	Size	Туре	Date Modified 🔻	Attributes	
🖬 derby.service	1 KB	SERVICE File	11/18/2009 9:54 AM	Α	
🗊 cogserver.log	2,571 KB	Text Document	11/18/2009 9:54 AM	А	
🗐 pogoMetrics_2009-11-17.log	0 KB	Text Document	11/17/2009 11:35 PM	A	
🗐 pogo_2009-11-17.log	6 KB	Text Document	11/17/2009 11:35 PM	A	
🗐 derby.log	59 KB	Text Document	11/17/2009 11:15 PM	A	
🗐 ipfInternal_java.log	52 KB	Text Document	11/17/2009 11:14 PM	A	
🗐 gwcgi.log	7 KB	Text Document	11/17/2009 11:14 PM	A	
🗐 pogo_2009-11-16.log	6 KB	Text Document	11/17/2009 5:20 PM	A	
🗐 pogoMetrics_2009-11-16.log	0 KB	Text Document	11/16/2009 10:35 AM	А	
🗐 pogo_2009-11-03.log	6 KB	Text Document	11/3/2009 9:45 AM	А	
🗐 pogoMetrics_2009-11-03.log	0 KB	Text Document	11/3/2009 9:44 AM	A	
<u>[</u> pogo_2009-10-30.log	6 KB	Text Document	11/3/2009 9:35 AM	А	

Database Logging Features

If reports not executing as expected, you may want to debug by enabling database log files.

If you are using DB2,

Navigate to <Cognos>\c8\binbin and locate cogdmd2.ini. Open that file, and locate the [TRACE] section. Uncomment the lines:

;[TRACE] ;Output=<my trace file>

;Timer=yes

Next, specify the output file (and path) where you want to save the file in place of <my trace file>. Restart the Cognos Server.

If you are using Oracle,

Navigate to <Cognos>\c8\bin and locate cogdmor.ini. Open that file, and locate the [TRACE] section. Uncomment the lines:

;[TRACE] ;Output=<my trace file>

;Timer=yes

Next, specify the output file (and path) where you want to save the file in place of <my trace file>. Restart the Cognos Server.

Troubleshooting Tips: Frequently Seen Error Messages

Cognos: Namespace Property Setting

After creating the maximo namespace, it needs to be tested. If you receive an error message within Cognos Configuration that the correct driver is not loaded, this often means that the JDBC Database URL passed from Maximo to Cognos is not properly constructed. This occurs because when a Connection request is issued, the DriverManager asks each loaded driver if it understands the URL sent. If no driver responds that it understands the URL, then the "No Suitable Driver" message is returned.

IBM Cognos Configuration is performing the following tasks:
 Generating cryptographic information

 Testing 'maximo' namespace.
 Close << Details

 [ERROR] CAM-AAA-0064 The function 'CAM_AAA_JniAuthProvider::

 Configure' failed.
 Provider initialization failure. Reason: java.sql.SQLException: No suitable driver

This error can be seen in the Maximo Log Files by something like 13 Oct 2009 16:57:48:241 [INFO] Logging initialized. 13 Oct 2009 16:57:48:247 [INFO] MXCSP INIT Method 13 Oct 2009 16:57:48:317 [INFO] Provider initilization failure. Reason: java.sql.SQLException: No suitable driver

In this case, confirm that the data source property value has been configured properly in V75. For example, an incorrect Data Source Value that would return this error is highlighted below with its incorrect syntax in red.

maximoDataSource.url=mxe.db.url=jdbc:db2://linux12.syr.swg.com:50000/MX7116

Its Correct Value is shown here.

maximoDataSource.url=jdbc:db2://linux12.syr.swg.com:50000/MX7116

Cognos: Namespace Jar File Extraction

An error may be received when creating a Maximo Namespace in Cognos, similar to what is shown below.

MXCSP INIT Method java.lang.ClassNotFoundException: com.ibm.db2.jcc.DB2Driver at java.lang.Class.forName(Class.java:130) at MXDriver.setDriver(MXDriver.java:36) at MXCSP.init(MXCSP.java:68) at com.cognos.CAM_AAA.authentication.proxy.CustomProviderProxy.pCAM_AAA_ Configure(CustomProviderProxy.java:526) at com.cognos.CAM.AAA.TestConfiguration(Native Method) at com.cognos.CAM.configtest.AAACnfgTask.run(AAACnfgTask.java:124) at com.cognos.crconfig.data.CnfgTask.run(CnfgTask.java:109) at com.cognos.crconfig.data.CnfgActionEngine\$CnfgActionThread.run(CnfgAc

tionEngine.java:384)

[INFO] Provider initilization failure. Reason: java.sql

.SQLException: No suitable driver

In this case, you may need to copy and unzip the CSP and Database jar files copied in Step 4 to an additional location in Cognos. To do this:

- 1. Stop Cognos.
- 2. Copy the CSP jar file from this location in Maximo

<R7.1>\reports\cognos\c8\webapps\p2pd\WEB-INF\lib

to this location in Cognos

<Cognos>\c8\webapps\p2pd\WEB-INF\classes

4. Copy your applicable database jar files from this location in Maximo

<R7.1>\applications\maximo\lib

to this location in Cognos

<Cognos>\c8\webapps\p2pd\WEB-INF\classes

- 5. Once copied, unzip the all the jar files you just copied.
- 6. Restart Cognos.

Appendix - Install Cognos Reporting thru TCR

If you are utilizing the V75 Maximo Cognos Reporting Integration thru the enablement of Tivoli Common Reporting 2.1, please note the information below.

<u>Platform Issues to Note</u>

1. TCR 2.1 supports only an IBM Websphere ® Application Server Deployment. Oracle BEA ® is not supported.

2. Cross product platforms are not supported. This means that a configuration of Maximo on Oracle BEA, and TCR/Cognos on IBM Websphere is not supported.

3. TCR 2.1 supports only an LDAP Enabled Security Environment. Tivoli Common Reporting is not able to authenticate with security groups held in a relational database.

4. The BIRT Engine that is available for deployment from the TCR Install is not supported by Maximo. Therefore, you should *not* select to install the BIRT Engine during the TCR Install program. If you want to use BIRT with your Maximo based products, you should utilize the BIRT Engine that is deployed through the Maximo Framework.

5. TCR 2.1 for V75 is not supported for installation in an existing Tivoli Integrated Portal Environment. The install must be done in an environment that does not have a preexisting TIP Server.

6. It is recommended that you perform a Distributed System Installation of TCR. The single computer installation is only recommended for small, development environments.

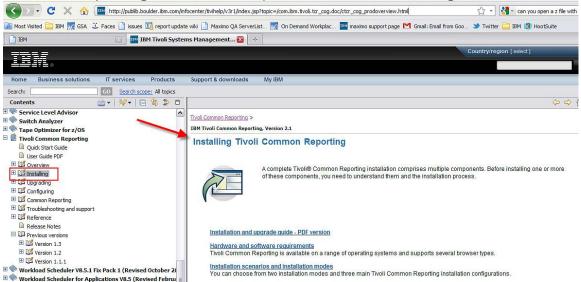
7. This release of the Maximo Cognos Integration through TCR is supported for English only.

Tivoli Common Reporting Installation Instructions

For details on using Tivoli Common Reporting (TCR) 2.1, reference the TCR documentation link below.

http://publib.boulder.ibm.com/infocenter/tivihelp/v3r1/index.jsp?topic=/com.ibm.tivoli.tcr_ cog.doc/ctcr_cog_prodoverview.html

For information on installing TCR, reference the TCR installation guide, which details preinstallation steps, along with hardware requirements and troubleshooting.



Additionally, below please review the information below which supplements the information in the TCR Installation Guide for the Maximo 75 based clients.

1. When you access the TCR Installer, you will be presented with a Product Overview. As noted above, it is recommended that you perform a Distributed System Installation of TCR. The single computer installation is only recommended for small, development environments.

2. During the TCR installation, you may see information and options to install the BIRTbased Tivoli Common Reporting engine.

Please note that the BIRT Engine available for deployment from the TCR install is not supported by Maximo. The version of BIRT used through TCR is different than what is used within the Maximo Framework, and it is not integrated with Maximo. (ex. Security Groups not synchronized, security, emailing and the scripted data source not enabled.)

If you want to use BIRT with your Maximo V75 based products, you should utilize the BIRT Engine that is deployed through the Maximo V75 Framework.

Tivoli Common Reporting Installation Notes

1. If you are installing TCR 2.1 with Cognos, an HTTP Server is not required if the Maximo Property Settings utilize the TCR Gateway URI. Examples of this are shown below:

HTTP Server not required

A. If you use the Idap namespace instead of the CSP. The Idap namespace would be specified in system properties and use the "http(s)://IP:Port/tarf/servlet/component" URL

B. If you use the CSP with an extra Idap security layer. In this case, the CSP namespace would be used in system properties and use the "http(s)://IP:Port/tarf/servlet/component" URL

HTTP Server required

C. If only the CSP is used. You would specify the CSP namespace in system properties and use the "http://IP:Port/cognos8/cgi-bin/cognos.cgi" URL

2. Information on downloading and installing the Cognos Framework Manager product for TCR can be found here: http://bit.ly/or6EzK

Reference Materials

*For a complete listing of V7 Report Reference Materials, including the V7 Cognos documents listed below, use this url: http://ibm.co/pxUyp6

Version 75 Maximo Cognos Integration

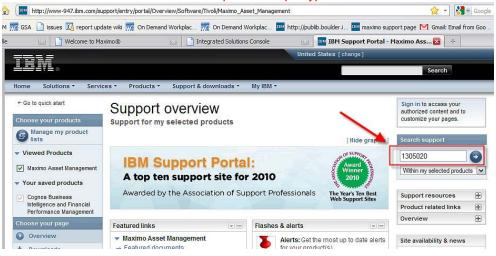
This guide details how the Maximo Cognos Integration is enabled. It includes information on the metadata layer, and how to create Report Object Structures for Cognos Packages. Also, details how you can set security in both the Maximo and Cognos Applications, how you can develop Reports in Cognos for the Maximo Integration, along with other Best Practices and functionality considerations.

You can access this guide or other report support guides by following the steps below:

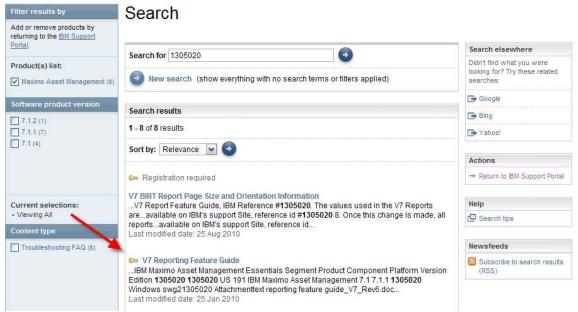
Access IBM's support site at the URL below:

<u>http://www-947.ibm.com/support/entry/portal/Overview/Software/Tivoli/Maximo_Asset_Management</u> or its shortened url of <u>http://bit.ly/iWtyQG</u>

2. Input the reference number or the document title of the guide you are looking for. You can obtain this information from http://ibm.co/pxUyp6



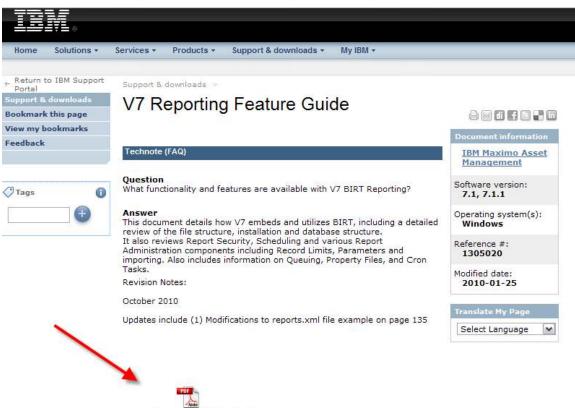
3. This leads to the page below. Find the specific guide from the list and click on it. *Note: Many of the report documents have a key in front of them. This indicates that you must first sign in to IBM support before downloading.



4. After clicking on the name, it brings you to the IBM support log in page. Sign in with your username and password. If you do not have an IBM support username and password, click on the 'register now' link highlighted by the top arrow.

=====		United States [change]	
			Search
Home Solutions - Servic	es • Products • Support & downloads • My IBM •		
My IBM registration Help and FAQ	Sign in		
	Please enter your IBM ID and Password in the sign in are registered with our site please register now. Tip: To easily return to your destination, bookmark the pay the sign in page.	Additional resources → Forgot your IBM ID? → Forgot your password?	
	IBM ID: Password: Submit		→ Change password
]

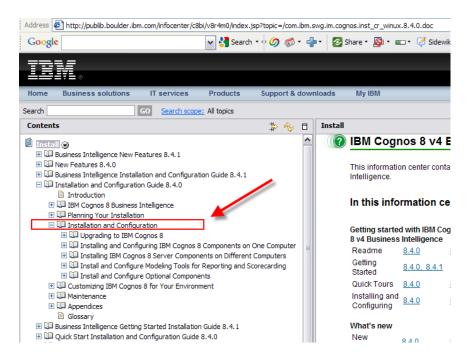
5. After you have signed in, you will be brought to the page where the document can be downloaded.



reporting feature guide_V7_Rev6.pdf

Cognos 8.4 Documentation

Central Location for detailed manuals on the Cognos Reporting Products. <u>http://bit.ly/mTNflH</u>



Revision History

Revision 2 - October 13, 2011

Updates for Clarification on TCR Settings. Updates include (1) Clarification that installation steps may be different from Direct Maximo-Cognos integration versus indirect TCR Integration (2) Updated Steps 3C and 4B (3) Additional information on TCR Troubleshooting Tips on page 26

Revision 1 - October 2011

(1) Added notes that Cognos Folder Location, identified by End Point Value, CONTENT_STORE_PACKAGE_LOCATION, cannot have a space in its name. (2) Added details on property setting value, mxe.rest.webappurl on page 25 (3) Updated reference material links

Notices

This information was developed for products and services offered in the U.S.A.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing IBM Corporation North Castle Drive Armonk, NY 10504-1785 U.S.A.

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law: INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not

tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

Trademarks

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "<u>Copyright and trademark information</u>" at <u>www.ibm.com/legal/copytrade.shtml</u>.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both