

RESO RETS Certification Server Testing Tool Instruction Manual

Version: 02

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Table of Contents

1	Intro	duction	. 3
	1.1 R	ESO Server Testing Tool (Download)	3
2	Befo	e Certification	. 4
	2.1 C	ertification Flow (Summary)	4
	2.2 G	etting Ready – Using the RESO Client Testing Tool	5
	2.2.1	System Requirements	5
	2.2.2	Downloading the RETS Server Testing Tool files	5
	2.2.3	Launching the Server Testing Tool	6
	2.2.4	Server Testing Tool: Main Window – Connect to Server	7
	2.2.5	"Configure" Dialog Box	9
	2.2.6	"Configure DMQL" Dialog Box	12
	2.2.7	"TestClient.properties" Configuration File	13
	2.2.8	"TestParameters.properties" Configuration File	14
	2.2.9	"Run Selected Scripts" Dialog Box	14
	2.2.10	RETS Transaction/Test Script Table	15
	2.2.11	Test Summary Report	15
	2.2.12	"Export to XML File"	16
	2.2.13	Test Results Detail Report	17

1 Introduction

This document is to help organizations submit their RETS servers to RESO for certification. A process walk through is found below.

The following are links to resources that will help your technology to become RESO certified. Explanations for how these fit within the certification process will be included below.

1.1 RESO Server Testing Tool (Download)

URL: https://github.com/RESO-RETS/RESO-Server-Compliance-Tester

The RESO Server Testing Tool is a Java-based application that may be installed on your local computer. It can be configured to query your server, like a RETS client. During these queries, the server responses will be analyzed and test results will be provided.

These transactions will be compared with the RETS 1.8 Standard. The results of the comparison will be provide.

2 Before Certification

2.1 Certification Flow (Summary)



Certification Flow	Group	Action	Output	
1: Application Processing (Pre- Certification)	Application Department	Accept and Verify Applicant's <i>'Certification Application'</i> and <i>'Exception Report'</i> via <u>reso.org</u> .	Prepare for Compliance Testing. Pass application and <i>'Exception</i> <i>Report'</i> to Compliance Department.	
2: Compliance Testing	Compliance Department	Test applicant's metadata against well- defined Compliance Rules as set forth by the RESO RETX 1x Workgroup.	Testing results formatted in 'Raw Report' package. Pass 'Raw Report' to Certification Department.	
3: Certification Analysis	Certification Department	Analyze 'Raw Report' to determine if applicant qualifies for a certificate. Create a 'Report Card' with findings.	Pass analysis results and <i>'Report</i> <i>Card'</i> back to Application Processing.	
4: Application Processing (Post- Certification)	Application Department	Act on Certification Department recommendation	Notify applicant of Certificate Pass/Fail. Send notification and 'Report Card' back to Applicant.	

4

2.2 Getting Ready – Using the RESO Client Testing Tool

2.2.1 System Requirements

The RESO Server Compliance Checker requires Java 1.7. If Java is already on your computer, it may already be configured correctly. The following instructions are provided if the Testing Tool does not work with current settings.

- You can find instructions for installing Java 1.7 on Windows here: <u>http://www.java.com/en/download/help/windows_manual_download.xml</u>
- Once Java 1.7 has been installed, you will want to set up your environment variables.
- To set the PATH variable, follow the instructions here: <u>http://www.java.com/en/download/help/path.xml</u>
- To set the JAVA_HOME variable and test your Java configuration, you can follow the instructions here: http://zombiebrainzjuice.fr/installing-java-on-windows-7-and-setting-up-the-java_home/

2.2.2 Downloading the RETS Server Testing Tool files

• Visit <u>https://github.com/RESO-RETS/RESO-Server-Compliance-Tester</u>

ravontes rools Help				
This reposite	ry • Search or type a command ③	Explore Features Enterp	orise Blog	Sign up Sign in
RESO-RETS / RI	ESO-Server-Compliance-Te		★ Star 0 \$ Fork 0	
11 commits	🐉 1 branch	ତ o releases 🚔	3 contributors	<> Code
ំ ំ ំ k branch: master ។	RESO-Server-Compliance-Tes	iter / 🕞		() Issues 1
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changed test's transaction labo paulaobrien authored 15 da i.dea classes classes config	It to DMQL Mixed Names - Range to stand ys ago added to verify a Search transaction First Commit changed System to SYSTEM changed test's transaction label to Di	Intest vith a format from GetPayloadLis	commit 989e7ccf11 15 days ago 2 months ago 20 days ago 15 days ago	Pulse Graphs V Network HTTPS clone URL
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changed test's transaction labo paulaobrien authored 15 da i. Jdea d. Jdea classes config ib src templates	It to DMQL Mixed Names - Range to stand ys ago added to verify a Search transaction First Commit changed System to SYSTEM changed test's transaction label to DI First Commit added to verify a Search transaction First Commit	Alatest itatest with a format from GetPayloadLis WQL Mixed Names - Range to stand with a format from GetPayloadLis	Commit 980e7ccf11 15 days ago 2 months ago 20 days ago 15 days ago 15 days ago 15 days ago 2 months ago	Pulse Graphs V Network HTTPS clone URL https://github.com/RE You can clone with HTTPS, or Subversion ③
changed test's transaction labs paulaobrien authored 15 da i.dea .settings classes config ii to src ii templates ii war build	It to DMQL Mixed Names - Range to stand ys ago added to verify a Search transaction First Commit changed System to SYSTEM changed test's transaction label to DI First Commit added to verify a Search transaction First Commit First Commit	MQL Mixed Names - Range to stand	comit 980e7ccf11 15 days ago 2 months ago 20 days ago 2 days ago 2 months ago 15 days ago 15 days ago 2 months ago	Pulse Graphs Vetwork HTTPS done URL https://github.com/RE You can clone with HTTPS, or Subversion. ③

- Click the "Download ZIP" link and save the file anywhere on your computer.
- Extract the files from the ZIP to a convenient folder.

2.2.3 Launching the Server Testing Tool

The extracted folder "RESO-Server-Compliance-Tester-master" contains all files for the Testing Tool. All instructions will be relative to this directory.

Organize 🔻 📑 Ope	n	Print Burn New folder		U Shred File	•
🔆 Favorites	*	Name	Date modified	Туре	Size
🧮 Desktop		🚺 .idea	2/17/2014 8:25 AM	File folder	
\rm Downloads		🔐 .settings	2/17/2014 8:25 AM	File folder	
📃 Recent Places		\mu classes	2/17/2014 8:25 AM	File folder	
📕 Google Drive		퉬 config	2/17/2014 8:26 AM	File folder	
🐔 SkyDrive		\mu lib	2/17/2014 8:26 AM	File folder	
😵 My Dropbox		퉬 src	2/17/2014 8:26 AM	File folder	
		퉬 templates	2/17/2014 8:26 AM	File folder	
🔲 Desktop	Ξ	퉬 war.build	2/17/2014 8:26 AM	File folder	
🥽 Libraries		퉬 web	2/17/2014 8:26 AM	File folder	
🤞 Homegroup		.classpath	1/29/2014 7:16 AM	CLASSPATH File	2 KB
诸 Lemon		.project	1/29/2014 7:16 AM	PROJECT File	1 KB
🖳 Computer		build.properties	1/29/2014 7:16 AM	PROPERTIES File	1 KB
📬 Network		🗐 build.xml	1/29/2014 7:16 AM	XML Document	7 KB
📴 Control Panel		LICENSE	1/29/2014 7:16 AM	File	12 KB
🥘 Recycle Bin		myKeystore	1/29/2014 7:16 AM	File	3 KB
		project.properties	1/29/2014 7:16 AM	PROPERTIES File	1 KB
		🗐 project.xml	1/29/2014 7:16 AM	XML Document	4 KB
		🚳 rc.bat	1/29/2014 7:16 AM	Windows Batch File	1 KB
		README.md	1/29/2014 7:16 AM	MD File	1 KB
		📄 readme.txt	1/29/2014 7:16 AM	Text Document	3 KB
	-	RESO-Server-Compliance-Tester.iml	1/29/2014 7:16 AM	IML File	2 KB

To launch the Testing Tool:

- Navigate to the extracted "RESO-Server-Compliance-Tester-master" folder
- Double-Click "rc.bat" to start the Testing Tool

This can done through the command line as well.

Administrator: C:\Windows\system32\cmd.exe	
C:\RESO-Server-Compliance-Tester-master\RESO-Server-Compliance-Tester	-master>rc 🔒
	-

Launching the Testing Tools will create a Windows's command window and the Testing Tool.

The command window will display information as it is transmitted between the server and Testing Tool.



2.2.4 Server Testing Tool: Main Window – Connect to Server

The Server Testing Tool main window will collect the information required to connect to the server being tested. The buttons on the right allow for additional configuration and running the test scripts.

Server Connection Fields	Description		
User Name	The RETS user name or ID provided by the server vendor as used in		
	the RETS login transaction (required).		
Password	The RETS password provided by the server vendor as used in the RETS		
	login transaction (required).		
Server URL	The URL for RETS access provided by the server vendor. This is the		
	absolute path for the RETS login transaction (required).		
User Agent	The RETS user-agent value provided by the server vendor as used in		
	the RETS login transaction.		
	Some server vendors will only allow access to certain user-agents. If		
	the vendor provides a specific user-agent value, enter it here. If not,		
	leave this entry blank (may be required by vendor).		

Server Connection Fields	Description
User Agent Password	The RETS UA password (commonly referred to as the "client password") value as used in the RETS login transaction to calculation UA authentication header.
	Some server vendors may require UA authentication. If so, they will provide a User Agent Password. If not, leave this entry blank (may be required by vendor).
Log Directory	The local computer folder where the application will persist the HTTP request and response information for each RETS transaction executed.
	The folder location is changed by clicking "Select Log Directory" on the main window. Use the dialog box to select or create a directory.
Results Directory	The local computer folder where the application will export Test Results for each RETS transaction saved.
	The folder location is changed by clicking "Select Results Directory" on the main window. Use the dialog box to select or create a directory.
RETS Version	The Server Testing Tool tests against the RETS 1.8 Standard.

The functionality of the Server Testing Tool is found in the buttons to the right of the Server Connection Fields.

Testing Buttons	Description
Run Selected Scripts	Launches a dialog box to select the server test scripts. These scripts
	take the format of XML files (more details below the descriptions of
	the other buttons).
Configure	Launches the "Configure" dialog box. This will set basic parameters
	for testing across all transactions (more details below).
Configure DMQL	Launches the "Configure DMQL" dialog box. This will set basic
	parameters for testing across all transactions (more details below).
Select Log Directory	A button to select the directory that is displayed in the "Log
	Directory" text field.
Select Results Directory	A button to select the directory that is displayed in the "Results
	Directory" text field.

2.2.5 "Configure..." Dialog Box

The Testing Tool must be configured before running any of the Test Scripts. This dialog box focuses on standard server functionality.



Each set of parameters are used by the various tests run against the server being tested. If the server being tested does not support a certain transaction, those entries may be left blank.

NOTE: There are no parameters on this screen for login. Those were entered on the main screen, as Login is required in order for any other RETS transactions to run.

NOTE: For testing purposes, the server we are using does not support ChangePassword, Update or PostObject. You will notice that all values pertaining to those transactions are left blank.

It is important to provide statements that would return listings or objects on the server being tested.

RETS Parameter Group	Parameter Fields	Descriptions
ChangePassword	Username	The RETS user id whose password is being
		changed. May or may not be the same as that
		used to perform the initial login.
	OldPassword	The existing password for the RETS user whose
		password is being changed.
	NewPassword	The new password for the RETS user whose
		password is being changed. Can be any value you
		choose that meets the guidelines provided by the
		server vendor (length, types of characters, etc)
		EXCEPT that it MUST NOT be the same value as
		the existing password for that user.
GetMetadata	Resource	StandardName to use in the ID for the
		METADATA-RESOURCE request.
		GetMetadata.Table and GetMetadata.Class must
		be values that are associate with this Resource.
	Class	ClassName to use in the ID for the METADATA-
		CLASS request. Used with the
		GetMetadata.Resource parameter.

9

RETS Parameter Group	Parameter Fields	Descriptions
	Table	ClassName to use in the ID for the METADATA-
		TABLE request. Used in conjunction with the
		GetMetadata.Resource parameter.
GetObject	Id	The keyfield value for an object. The keyfield can
		be found in the METADATA-RESOURCE. You can
		look at the search results from a search
		transaction to determine a keyfield value to use
		for testing. (In most servers the keyfield for
		property is the mls number or listing id or sysid
		for a record).
	Resource	The resource associated with the object being
		downloaded; normally, "Property".
	Туре	Default this to "Photo" for testing, as it is always
		a supported media type.
Search	Class	The SearchClass corresponds to the ClassName
		from the METADATA-CLASS. For testing purposes,
		if you have a server vendor's metadata, you can
		find this value there. Must be from a Class that is
		related to the Resource you used for
		Search.SearchType.
	QueryStandard	The DMQL query used for static testing where
		StandardNames=1. You can form this from
		StandardNames in the METADATA-TABLE for a
		Class/Resource for testing. Must be formatted as
		proper DMQL with the parenthesis around each
		subquery and commas etc between subqueries.
	QuerySystem	The DMQL query used for static testing where
		SysytemNames=0. You can form this from
		SystemNames in the METADATA-TABLE for a
		Class/Resource for testing. Must be formatted as
		proper DMQL with the parentheses around each
		subquery and commas etc between subqueries.
	SearchType	The SearchType corresponds to the METADATA-
		RESOURCE. For testing purposes, if you have a
		server vendor's metadata, you can find this value
		there. Must be related to Search.Class. Most
		commonly defaults to "Property".
	SelectStandard	A single StandardName used in the RETS Select
		argument where StandardNames=1. Again, you
		can find this in the METADATA-TABLE as a
		StandardName.
	SelectSystem	A single SystemName used in the RETS Select
		argument where StandardNames=0. Again, you
		can find this in the METADATA-TABLE as a
		SystemName.

RETS Parameter Group	Parameter Fields	Descriptions
	Payload	This can be derived from the GetPayloadList
		transaction making sure it corresponds to the
		Search.Class and Search.SearchType.
	System. RequiredFields	Some RETS Servers require certain fields to be
		included in every search. This field contains the
		DMQL Statements required to perform searches
		that return results. Each DMQL statement must
		end with a comma. These statements are
		prepended to the test scripts. Failure to provide
		the separating and ending commas will cause
		errors in the DMQL testing.
		These DMQL statements require System Names
		from the Metadata to be used. (See an example
		below).
	Standard.	These DMQL statements required Standard
	RequiredFields	Names from the Metadata to be used. (See the
		"RequiredFields" definition above).
		For example:
		(ListingStatus= ER,EA,AP,C,P,S),(ListPrice=1000+),
Update	Delimiter	The record delimiter; leave this blank for the
		ASCII HT character.
	Record	The fieldname=fieldvalue pairs separated by the
		delimiter for the record you wish to update,
		formatted as in section 10.
	Resource	The Resource's StandardName from the
		Metadata.
	ClassName	The ClassName for the record you are updating
		from the Update section of the Metadata.
	Validate	0, 1, or 2 depending upon if the record will be
		stored or not stored on the server and if it is full
		or partial.
	Туре	The supported update action from the Metadata.
		("Add", "Change" etc)
GetPayloadList	Id	Either the Resource (ie "Property") or
		Resource:Class combination (ie: "Property:RES")
		from the Metadata.
PostObject	UpdateAction	The supported update action from the Metadata
		("Add", etc).
	Туре	The Object Type, i.e. "Photo".
	Resource	The Resource from the Metadata (i.e.,
		"Property").
	UploadFile	The location of the file to upload
		(i.e."c:\tmp\example.jpg").

The settings of the Configure dialog box is persisted in the "TestParameters.properties" file in the "config" folder when the "Save Changes" button is pressed.

2.2.6 "Configure DMQL..." Dialog Box

The Testing Tool must be configured before running any of the Test Scripts. This provides the tests scripts with server-specific fields and values needed to fully test the server's different DMQL data.

This dialog box may take some time before appearing. The RETS Server Testing Tool will download a copy of the server's metadata to populate the dropdown fields.

Configure DMQL								83
View								
Resource Property 👻								
Class RES -								
Type System -								
Add/Change DataSe	ts							
riaa onango bataoo	DataType	Decir	nal	-				
	Field	sysid		-				
		Minin	num	-				
	value Type		um	-				
	Value				S	Set		
Current Data Sets								
Data Type	Field		Value	е Тур	е	Valu	ue	
Character	StreetName		AndOr		Main]▲I	
Character	StreetName		Contains		S			
Character	StreetName		StartsWith		S			
DateTime	ListDate		Maximum		2007-04-01T00:00:			
DateTime	ListDate		Minimum		2007-03-01T00:00:		1_	
DateTime	ListDate		Todav		2006-04-01T00:00:			
Decimal	BedroomsTot	al	Maximum	Maximum		3		
Decimal	BedroomsTot	al	Minimum	Minimum		1		
Decimal	BedroomsTot	al	RangeHig	RangeHigh		3		
Decimal	BedroomsTot	al	RangeLow	V		1		-
					Save	Changes	Cance	el

Configuring both System and Standard Names for DMQL Tests:

DMQL Test are performed with the metadata's "System" names or "Standard" names. Both System and Standard names need to be updated the match the fields used by the RETS server. Changing the "Type" dropdown will change the contents of the "Current Data Sets" panel.

Changing Current Data Sets:

- 1. Click the row in the "Current Data Sets" panel that needs to be changed. The values in the row will be placed in the "Add/Change Data Sets" fields.
- 2. Change the values in the "Add/Change Data Sets" fields as needed.
- 3. Click "Set" to update the values into the "Current Data Sets" panel.
- 4. Repeat steps 1-3 as needed. Change "Type" dropdown as needed to update System or Standard data sets.
- 5. Click "Save Changes" to close the dialog box and save the data sets.

It is highly recommended that the "Data Type" and "Value Type" values are NOT changed. These cover all of the required test. Please change the "Field" and "Value" columns to values that would return records on the server.

Configure DMQL Panels	Panel Fields	Descriptions
View	Resource	Select the resource from the server's metadata
		that the tool should test against.
	Class	Select the class from the server's metadata that
		the tool should test against.
	Туре	Select "Standard" or "System" to change the
		"Current Data Sets" that are viewed and can be
		changed.
Add/Change Data Sets	DataType	Please do not change these values.
		Specifies the type of field being tested.
	Field	The "Standard" or "System" name found in the
		RETS server's metadata.
	Value Type	Please do not change these values.
		Specified the DMQL feature being tested. This
		changes based on Data Type.
	Malua	
	value	The value used to search within the specified
	value	The value used to search within the specified field. This must be a value that would return a
	value	The value used to search within the specified field. This must be a value that would return a valid record from the server.
	"Select" Button	The value used to search within the specified field. This must be a value that would return a valid record from the server. Updates the values into the "Current Data Sets"
	"Select" Button	The value used to search within the specified field. This must be a value that would return a valid record from the server. Updates the values into the "Current Data Sets" panel.
Current Data Sets	"Select" Button Data Type	The value used to search within the specified field. This must be a value that would return a valid record from the server. Updates the values into the "Current Data Sets" panel. (See "Changing Current Data Sets" description)
Current Data Sets	"Select" Button Data Type Field	The value used to search within the specified field. This must be a value that would return a valid record from the server. Updates the values into the "Current Data Sets" panel. (See "Changing Current Data Sets" description) (See "Changing Current Data Sets" description)
Current Data Sets	"Select" Button Data Type Field Value Type	The value used to search within the specified field. This must be a value that would return a valid record from the server. Updates the values into the "Current Data Sets" panel. (See "Changing Current Data Sets" description) (See "Changing Current Data Sets" description) (See "Changing Current Data Sets" description)

The following tables provide additional information on how this dialog box functions.

2.2.7 "TestClient.properties" Configuration File

The Testing Tool configurations from the main window is persisted in the "TestClient.properties" configuration file. The text file is made up of key-value pairs used by the test scripts. **THIS FILE WILL BE PROVIDED TO RESO STAFF FOR CERTIFICATION PURPOSES.**



2.2.8 "TestParameters.properties" Configuration File

The Testing Tool configurations from the "Configure" and "Configure DMQL" Dialog boxes are persisted in the "TestParameters.properties" configuration file. The text file is made up of key-value pairs used by the test scripts. **THIS FILE WILL BE PROVIDED TO RESO STAFF FOR CERTIFICATION PURPOSES.**

2.2.9 "Run Selected Scripts" Dialog Box

🛓 Select one or more test scripts	
Look In: TestScripts	▼ A A C D B -
1.0 Tests	DMQLDynamicTestStandardCompa
1.5 Tests	DMQLDynamicTestSystem.xml
1.7 Tests	GetMetadata.xml
1.7.2 Tests	GetMetadataDMQLTest.xml
ChangePassword.xml	GetObject.xml
DMQLDynamicTestStandard.xml	
File Name: GetMetadata.xml	
Files of <u>Type</u> : All Files	•
	Open Cancel

Clicking the "Run Selected Scripts" button will activate this dialog box. One or more tests can be selected by ctrl-clicking the different test.

Clicking "Open" after selecting test(s) will run them against the server.

2.2.10 RETS Transaction/Test Script Table

The following table shows which XML test scripts are used to test the different server function groups.

RETS Transaction	Required Test Scripts	Optional Test Scripts
ChangePassword	ChangePassword.xml	n/a
Logout	Logout.xml	n/a
GetObject	GetObject.xml,	GetObjectLocationAvailable.xml,
	NegativeTestingGetObject.xml	GetObjectObjectData.xml
GetMetadata	GetMetadata.xml,	n/a
	NegativeTestingGetMetadata.xml	
Search	Search.xml,	SearchWithOffset.xml,
	NegativeTestingSearch.xml,	SearchWithNoQuery.xml
	DMQLDynamicTestStandard.xml,	
	DMQLDynamicTestSystem.xml	
GetPayloadList	GetPayloadList.xml,	n/a
	NegativeGetPayloadList.xml	
Update	Update.xml,	n/a
	NegativeTestingUpdate.xml	
PostObject	PostObject.xml,	n/a
	NegativePostObject.xml	

2.2.11 Test Summary Report

The "Test Summary Report" dialog box will automatically display when the selected test(s) finish.

🖆 Test Summary Report - ChangePassword.xml, DMQLDynamicTestStandard.xml, DMQLDynamicTestSystem.xml, Get 🗖 🔳 🖾			
User Name: RESOWG			
Server URL: http://demo.rets.i	nterealty.com/l	Login.asmx/Login	
Test Name	Status	Description	\square
EvaluateLogin	Success	Check capability URLs	
EvaluateLogin	Info	Check capability URLs	
EvaluateLogin	Success	Check RETS version Header	H
EvaluateLogin	Success	Checking for RETS-RESPONSE Tags	1
EvaluateLogin	Success	Checking Optional Response Keys	
EvaluateLogin	success	Check Date Header	
Response Status 20142	Info	Transaction org.realtor.rets.retsapi.RETSChangePasswordTransaction return a res	
checkResponseHeaders	Success	Transaction "ChangePassword" All required response fields found	1
CheckWellFormed: ChangeP	Success	Checks to see if the the body of a transaction is well formed	
Response Status 20203	Info	Transaction org.realtor.rets.retsapi.RETSSearchTransaction return a response Statu	
DMQL Numeric Search - Mini	SUCCESS	Compare value of requested field Beds; Value must be >= 1	
Response Status 20203	Info	Transaction org.realtor.rets.retsapi.RETSSearchTransaction return a response Statu	
DMQL Numeric Search - Maxi	SUCCESS	Compare value of requested field Beds to 3; field Value must be <= 3	
Response Status 20203	Info	Transaction org.realtor.rets.retsapi.RETSSearchTransaction return a response Statu	
DMQL Numeric Search - Range	INFO	Compare value of requested field Bedrooms to the specified range; field Value must	
Response Status 20203	Info	Transaction org.realtor.rets.retsapi.RETSSearchTransaction return a response Statu	
DMQL Character Search - AND	SUCCESS	Compare value of requested field ListingStatus to the field Value A* AND make sure t	
Response Status 20203	Info	Transaction org.realtor.rets.retsapi.RETSSearchTransaction return a response Statu	
DMQL Character Search - OR	SUCCESS	Compare value of requested field ListingStatus to the field Value A* *OR* ensure the	
Response Status 20203	Info	Transaction org.realtor.rets.retsapi.RETSSearchTransaction return a response Statu	
DHOL Character Cearch Start	енестее	Compose value of requested field City Value must Start Mith the String A	Ľ
		Close	

Test Summary Report Fields	Description
Test Name	The name of the test performed.
	This also could be a Response Status description when a non-zero
	response is received.

Test Summary Report Fields	Description
Status	The status of the test results. Often the tests end in "Success" or
	"Failure". Some "Info" records are provided when additional
	information is provided.
Description	Details of the test

2.2.12 "Export to XML File"

The only way to save the test results performed is to click the "Export to XML File". This is a view of the XML text. It contains all information found in the Test Summary and Details.



2.2.13 Test Results Detail Report

🛓 Test Result De	tail - DMQL Numeric Search - Minimum Value
	Test Result Detail
Test Name	DMQL Numeric Search - Minimum Value
Status	SUCCESS
Description	Compare value of requested field Bedrooms to 1; field Value must be >= 1
Notes	All requested search fields had the correct Numeric values in the response xml version="1.0"? <rets replycode="0" replytext="Operation Successful Reference ID: 677cb2e9-ccee-4995-a278-7407a 0f7744e"> Of7744e"> </rets>
Evaluator Class	com.realtor.rets.compliance.tests.dmql.DMQLSystemNumericResultsMin
Java Exception	
Specification Reference	
	Close

Test Report Detail Fields	Description
Test Name	Same as "Test Summary Report"
Status	Same as "Test Summary Report"
Description	Same as "Test Summary Report"
Notes	Notes on the test, including the RETS Transactions.
Evaluator Class	The internal java class used to run the test.
Java Exception	Notes on java exceptions that may have been thrown during the test.
Specification Reference	The section of the RETS specification related to this test.