# Viewing Results using SQL Quick Reports in Metrology Xplorer®

Product: Metrology Xplorer®

Version: 1.0

## Wouldn't it be nice to display results data within an SQL Quick Report from your browser.... ?

Metrology Xplorer has the capability to display and print results data using SQL Quick Reports. A major feature of the Quick Reports is the ability to provide a link to "drill down" to the corresponding Inventory, Calibration, Location, and Maintenance Screens. If your company saves data from a MET/CAL procedure to the database, then this may be a great way to distribute the results data to engineers and technicians using the equipment. This is accomplished by including the proper "linked field" in the SQL statement for the Quick Report, enabling the links to become active, and is described in the operation manual for Metrology Xplorer.

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QUICK INSTRUMENT SEARCH (SQL QUICK REPORT)						
Asset#	Mfg	Model	Description	Serial Number	Cal-date	Due Date
008800	FLUKE	732A	VOLTAGE STANDARD, DC	8360548	10/18/1995	09/15/1997
906100	FLUKE	540B	VOLTAGE STANDARD, DC TRANSFER	1539560	05/04/1995	12/01/1995
900200	WEB4	PA-2	ATTENUATOR, PRECISION	1165	06/04/1995	12/01/1995
900500	HP	5061A	FREQUENCY STANDARD, CESIUM BEAM	2016-A-0711	06/16/1998	12/11/1998
5500-2	FLURE	5500A	CALIBRATOR. MULTIPRODUCT	TEST	07/16/1998	12/14/2001
TDS320	TER	TDS320	SCOPE	1234567-1	04/28/2000	04/27/2001
900600	STAR	0-IINCH	MICROMETER 0-1 INCH	6920789	11/02/2000	11/02/2001
900650	TER	CG5011	CALIBRATOR. OSCILLOSCOPE	2528069	05/19/1995	02/11/1998
00800	FLUKE	75	DMM	8923644	06/04/1995	12/01/1995
1000105	SED.	22053	GENERATOR, SIGNAL	00204005	havannoos	01/23/2000

This is an example of an SQL Quick Report showing a list of instruments. Notice the links under the Asset # and Cal-Date titles. If you click on an Asset number, then the program will "Drill Down" into the MET/TRACK Inventory screen. If you click on the Cal-date link for a specific asset, the the program will "Drill Down" to the most recent MET/TRACK Calibration screen. This is a very powerful feature

So, how do we create a report showing the same information but with a link showing calibration data? We are going to create a report that will prompt the operator for an asset number and will display a report with the Cal Date, Pass/Fail, Due Date, Cal Tech, Procedure Used, AS-FOUND/AS-LEFT, a link to the results, and will show all the calibration records for that asset. We will create the report with a single SQL Statement. Because MET/TRACK links the results to the corresponding calibration record, we have to take this into account when we create our SQL query. Metrology Xplorer allows some HTML formatting to be embedded into SQL statement. Here is our statement:

## SELECT C2301,c2323,c2303,c2307,C2320,C2308,CTAG,

#### '<A HREF=?inputform=formindex&outputform=form&results=' +CTAG+'> View Results</A>' Results FROM MT.CALIBRATION WHERE

### MTAG = (SELECT MTAG FROM MT.INVENTORY WHERE I4201 = '\$asset\$') ORDER BY C2301 ASC

In the first line of the statement we have our calibration fields that are displayed in the reports and CTAG. CTAG is not actually displayed, but will display the link on the Cal Date. This process is described in the manual. The second line actually embeds the HTML formatting into our SQL statement and creates a link called Results. The third and fourth line selects the MTAG for the asset number that was requested in the asset number prompt. An important note, there has to be a results record attached to the calibration record for any data to display. If there are no results, then an error screen will be displayed. You can go back to the previous screen to continue viewing data.

The following instructions show how to set up our report example and use the SQL statement displayed above in bold text.

King Top Line and Sol Second Sol Second Sol	2 Add/Tell/Remove SQL Reports 2	This process assumes that the database administrator is already familiar with the operation of
Sings 1: Select a Report to mode, or disk of Add Report to clearte a Sings 2: Edit Report Properties now SQL Report	See 1: See a Report to center a See 2: Eat Report Properties rem: SER Report	Metrology Xplorer.
Old Space Provide Determine Provide Determine Provide Determine State State Determine State State Determine State State Determine State State Determine	130. Round: 132. Round: Poperies Proverse: [margin:] Proverse: [margin:] Proverse: [margin:] Steamer:[min:] he Steamer:[min:]	Step 1: Click Add Report and enter a Report Title.
Teac Call Producting Producting Cancel Production	Constant Report C	Step 2: Enter the SQL Statement in the Statement Window. Be sure to click the Link to forms
BTEP1 Cilck on the Add	Pe Unk to Forms. P Lisk ta famic on key data field:	on Rey Data Fields.
Add Report Builton and Remove Report Public Product Control Pr	Tentent Save Durges Frahed	Step 3: Click the Add Prompt button. Enter the text for the operator prompt.
Constant Section 2012 Section 2	All CARLES Transmission Annual State 2 dial  All  State 2 dial State 2 dia	<b>Step 4:</b> Enter the text to replace in the SQL statement. In our example, we are replacing \$asset\$.
Compared by Conference Sol and the Confe	Country by MACMO Streams size as sense in the sense of th	Step 5: Next you will be prompted to enter the prompt type. Choices are String, Date, Time, and Number. For our example, we are replacing \$asset\$ which is a string.
OR     Cented     and the data       Out-The data     Add Promot     There exists       Add Promot     There exists     There exists       There exists     Same Datages     Finited	Oc.     Cancel     In       Very Handhill     Very Handhill     In     In       Add Drangt     Person Resold     Person Resold       Premin     Person Resold     Sinvi Changua	<b>Step 6:</b> You will now be prompted to enter a default value for the prompt. In this example, we will leave it blank because we are prompting for an asset number.
2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2     2	Constant A Report to study, The Stand A Report to study, Th	Be sure to click the "Save Changes" button and the report will be saved.
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After setting up the report, be sure to make the reports available by clicking on Users/Groups and select Add/Edit/Remove Groups in the Metrology Xplorer Administration program. Click on the Reports tab and you should see the report you just added. At this point you need to decide which group to add the report to. After adding the report, you should be able to execute the report from your browser. Lets take a look at the report and see how it looks. We ran the report and entered 'TDS640' for our asset number.

RESULTS REPORT						
Cal-date	Pass	Due-Date	C- Tech	Procedure-name	Found/Left	Results
1/25/1998	N	01/25/1998	DOUG	TEK TDS 640A (1 YEAR) CAL VER TEEE/5500+SC600	AS- FOUND	View Results
1/26/1998	N	01/26/1998	DOUG	TEK TDS 640A (1 YEAR) CAL VER IEEE/5500+SC600	AS- FOUND	View Results
1/27/1998	Y	01/27/1999	DOUG	TEK TDS 640A (1 YEAR) CAL VER IEEE/5500+SC600	AS- FOUND	View Results
1/29/1998	Y	01/29/1999	DOUG	TEK TDS 640A (1 YEAR) CAL VER IEEE/5500+SC600	AS- FOUND	View Results
1/29/1998	N	01/29/1998	MIKE	TEK TDS 640A (1 YEAR) CAL VER IEEE/5500+SC600	AS. FOUND	View Results
1/29/1998	Y	01/29/1999	DOUG	TEK TDS 640A (1 YEAR) CAL VER IEEE/5500+SC600	AS- FOUND	View Results

MET/EX Results:TDS640 - Microsoft Internet Explorer a × - 11 4-Bad 🔿 - 🥥 🔄 🎢 🔍 Search 🕞 Favorites 🎯 History 🛛 🖓 - 🥥 ▼ c2 Go Unis Address 🕘 http://dynde-1500/cg-bin/met\_ex.exe?inputform=formindex&outputform=form&results=129 UUT Identification string: TERTRONIX,TDB 6200,0,CF:91.1CT FV:v3.8.2e UUT Self-Test Checks TDB 6400 Self Test PA Signal Path Compensation Test PA DC Voltage Offset Tests - Channel 1 0.0000 29 ltage Offset Tests - Channel 2 0.00002 0.0000 0.000 Channel 3 0.00000 -0.0020 -0.020 Ltage Offset Tests -Voltage Offset Tests - Channel 4 12 13 14 15 0.0000 ent Delta Accuracy 0.500 16 2 Done Local into

Now, you can distribute calibration results in an SQL Quick Report.

If you need on-site help, give us a call at ON TIME SUPPORT. We have a large amount of database, procedure, and networking experience and we can save you a lot of time. We are here to help. You can call us at (281) 296-6066 or visit us on the Internet at www.ontimesupport.com.

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We now have our report. You can see that after entering in the asset number, we had a total of 6 calibration records. There is also a link called 'View Results' for each calibration record. If there is a calibration record, then data will be displayed, otherwise an error screen will be displayed.

We clicked on the last record in the list and we now are displaying MET/CAL data from an automated oscilloscope calibration.