

# MET/CAL 9.1.0 README

This document includes a list of modifications to MET/CAL 9.1.0 relative to version 9.0.0. This version of MET/CAL is compatible with MET/TEAM only.

## WHAT'S NEW IN VERSION 9.1.0?

- Settings stored directly in database - easier to archive and duplicate workstation specific settings
- One workstation to support multiple configurations - manage multiple configurations and conveniently copy setting across work stations
- Automatically migrate legacy formatted procedures (PROC.DIR) to projects and PXEs
- New procedure directory scheme for improved security and version control and simplified distribution of procedure executable files and source codes
- Automatic importation of new procedure executable files to MET/TEAM
- International language support in MET/CAL Runtime application: German, Russian, French, Spanish, Portuguese, Chinese, and Japanese

## NEW INSTALLATIONS

- Run the MET/TEAM Server installer to setup MET/TEAM on a server. This will also deploy the MET/CAL Client installer to the MET/TEAM shared folder.
- Run the updated MET/CAL Client installer on all MET/CAL workstations to update them to the latest version. The MET/CAL Client installer is found in the \Installers\METCAL folder on the MET/TEAM share for Client/Server installations (typically \\<servername>\metteam\Installers\METCAL).
- For Stand-Alone installations, the MET/CAL Client installer can be run from the local folder (typically C:\Program Files (x86)\Fluke\METTEAM\Installers\METCAL)

## UPGRADING FROM PREVIOUS VERSIONS

- When upgrading from a previous version of MET/CAL, run the MET/TEAM Server Update installer to update MET/TEAM first. This will also deploy an updated MET/CAL Client installer to the MET/TEAM shared folder.
- Run the updated MET/CAL Client installer on all MET/CAL workstations to update them to the latest version. See above for the location of the installer for Client/Server and Stand-Alone installations.

## MET/CAL 9.1.0 CHANGES

Key	Issue Type	Description
MCR-2945	ADDED	The "Agilent PSA" instrument configuration now supports the N1913A and N1914A power meters for Option 233 N5531S Measuring Receiver.
MCR-2863	ADDED	The MATH FSC now supports the function DUT(). DUT() behaves exactly like UUT(): It returns the asset number of the device being calibrated.
MCR-2742	ADDED	Functionality was added to persist the metcal.ini file changes made by MET/CAL Runtime on the next login.
MCR-2655	ADDED	The user_config_instr.ini file now supports the following Keysight/Agilent/HP Pulse Generators via the PGEN Flexible Driver: 81110A, 81130A, 81133A, 81134A, 81150A, 81160A.
MCR-2654	ADDED	The user_config_instr.ini file now includes entries for setting the trigger delay for the following devices: Keithley 2000, Keysight/Agilent/HP 3458A, Fluke 8508A, Fluke 8845A & 8846A.
MCR-2386	ADDED	The MET/CAL Runtime now supports the following languages: Chinese, English, French, German, Italian, Japanese, Portuguese, Russian, Spanish
MCR-2103	ADDED	Functionality was added to get popups, dialog boxes, etc. to appear on the same monitor where the MET/CAL Runtime main window resides.
MCE-892	ADDED	Functionality was added to the 'Project From Existing .pkm File...' process to create and add a config.dat file to the project for the required FSC to compile successfully.
MCE-872	ADDED	Functionality was added to have a common dialog which includes options to perform Automated Build and Consolidation at the start of the 'Project From Existing Procedure...' and 'Project From Existing .pkm File...' processes.

Key	Issue Type	Description
MCE-801	ADDED	Functionality was added to the MET/CAL Editor which allows for converting a proc.dir to PXE files and uploading them into the MET/TEAM database, to update the existing Procedures and Files records.
MCE-787	ADDED	Functionality was added to remove duplicate files in a root folder and to copy and re-reference them to a new common location in their projects.
MCE-743	ADDED	Functionality was added to be able to automatically convert PROC.DIRs to PXEs.
MCE-725	ADDED	Functionality was added to the MET/CAL Editor to perform Automated Build on a solution with the option Tools > Automated Build > From Solution.
MCR-2981	CHANGED	A N5531 FSC RF Power statement now sets the PSA center frequency to the value specified by Frequency = <value>.
MCR-2979	CHANGED	A N5531 FSC with Zero, Cal, or Zero_and_Cal action can now include "Timeout = <value>" to override the default timeout: Defaults: Zero: 30 s Cal: 30 s Zero_and_Cal: 60 s
MCR-2962	CHANGED	The N1913A and N1914A Power Meters are now supported by the N5531 FSC.
MCR-2906	CHANGED	The 8508A 1 year accuracy files have updated to "Product Specifications for 8508A, Rev P, 16 January 2015".
MCR-2864	CHANGED	The MATH FSC SAFEON and SAFEOFF functions now support "DUT". "DUT" behaves exactly like "UUT".

Key	Issue Type	Description
MCR-2693	CHANGED	The 9640A, 9640A-LPN, and 9640A-LPNX leveling heads (9640A-50 and 9640A-75) are now "Device Mapped" to "Fluke 96040A-50" and "96040A-75" respectively. Therefore, the leveling heads will be listed in "Standards Used", when a 9640, LPN, or LPNX FSC is executed with "Fluke 96040A" or "Fluke 96270A" connected.
MCR-2686	CHANGED	The MATH FSC Get792 function now works with frequency and/or voltage values that are at a range boundary and specified in other than base units (e.g "700 mV").
MCR-2662	CHANGED	An improvement was made to display the first and last name in the Operator_Name\$ variable in variable.dat when using MET/CAL with MET/TEAM.
MCR-2540	CHANGED	Behavior was changed such that when double clicking a PXE file, the MET/CAL Runtime application will open as before, but now you will automatically be prompted for the asset and the procedure will start.
MCR-2458	CHANGED	<p>Functionality was removed from MET/TEAM, MET/CAL and MET/CAL Editor for using compiled procedures in a proc.dir.</p> <p>Removed the option to publish to a pkm file in MET/CAL Editor.</p> <p>Removed the Hidden Procedure property from the Project Properties dialog in MET/CAL Editor.</p>
MCR-2440	CHANGED	Functionality was added to MET/CAL to only download a PXE file from the MET/TEAM server to the local client if the file contents were altered since it was last downloaded.
MCE-899	CHANGED	Functionality was added to have the project's Publish File Name based on which the Publish file name property of a project would be set.
MCE-884	CHANGED	The M681 FSC help now lists the correct values for Measuring Time.

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MCE-825	CHANGED	Functionality was added to make the package date property a read-only field and gets set when a project is built. The Publish file name field also gets set when a project is built if it has not been set previously.
MCE-800	CHANGED	Functionality was added to MET/CAL Editor to avoid Test Results window taking priority over every other window.
MCE-781	CHANGED	Functionality was added to the Project From Existing Procedure creation to create and add to the project a config.dat file for the required FSC to compile successfully.
MCE-775	CHANGED	Functionality was added to the MET/CAL Editor to create projects based on number of instrument lines in the main procedure for options Project From Existing Procedure and Project From Existing .pkm File.
MCE-579	CHANGED	Functionality was added to the MET/CAL Editor to show progress dialog for Automated Build, details of build in the output window and load the active project being built in the solution explorer.
MCR-3037	FIXED	Resolved an issue where the Stop and Terminate buttons were not halting procedure execution as expected under certain conditions.
MCR-3033	FIXED	Resolved an issue where the guardbanding type could not be changed. Resolved an issue where the mu.ini file location could not be changed.
MCR-3032	FIXED	Resolved an issue with the 5080A FSC Slew action that would lock the 20A range.
MCR-3028	FIXED	When changing accuracy file folders in MET/CAL configuration, the change wouldn't take effect until the user restarted the application. Restart is no longer required.
MCR-3014	FIXED	9640, LPN, and LPNX FSC statements with "Mode = FrequencyCounter" now Device Map to "Fluke 96040A" and "Fluke 96270A" without error.

Key	Issue Type	Description
MCR-2986	FIXED	A 8903 FSC Audio Distortion statement (MOD3 = "AD") with NOMINAL units of percent ("pct"), not compiles without a "Reference accuracy zero..." error.
MCR-2971	FIXED	The lower frequency limit for the N5532A-550 and N5532B-550 power sensors is now correct (30 MHz).
MCR-2970	FIXED	The timeout is now correctly set for the N5531 FSC Measure and Read actions (default or explicit "Timeout = <value>").
MCR-2935	FIXED	Resolved an issue where duplicate Procedures get created when running a MET/CAL procedure.
MCR-2842	FIXED	<p>O_CAL statements with the following will now compile without a O_CAL support instrument configured or an instrument configuration file attached to the project:</p> <ol style="list-style-type: none"> <li>1. O_CAL statements containing the parameter "Channel" with a value or 2, 3, 4, or 5.</li> <li>2. O_CAL statements containing the parameter "Current".</li> <li>3. O_CAL statements containing "Mode = VoltageMeasurement".</li> </ol>
MCR-2813	FIXED	A change was made to MET/CAL prompt screens where the fields for the number of failed tests and marginal tests have been removed. The results viewer in MET/TEAM now has a display for the number of failed tests.
MCR-2812	FIXED	The 5500A, 5502A, 5520A, 5522A, 5800A, and 5820A accuracy files now have correct entries for "Mode: Hertz PU S6". This allows 5500, 5520, O_CAL FSC statements to compile, when the evaluation quantity is period or frequency for Scope Pulse mode.
MCR-2800	FIXED	The 5502A, 5502E, 5522A FSCs now correctly setup the calibrator when Mode = TC_Source, TC_Type = _10uVdegC, and the evaluation quantity is Voltage.

Key	Issue Type	Description
MCR-2788	FIXED	Resolved an issue with the data capture when running a calibration using MET/TEAM so that the working facility is referenced on the results grid on the Work Order.
MCR-2685	FIXED	The 52120A is now included in the list of Standards Used when the CurrentTerminal = 52120_Low or CurrentTerminal = 52120_High and BoostCount is not specified.
MCR-2641	FIXED	Resolved an issue to allow sectioned procedures to have ampersand and other special characters in tag values.
MCR-2608	FIXED	Resolved an issue using LIB FSC arrays.
MCR-2466	FIXED	The 9500 FSC now sets the calibrator to the DC current specific (e.g. output is no longer double the NOMINAL value).
MCR-2360	FIXED	Improved MET/CAL messages, removing extraneous white space.
MCR-1712	FIXED	The 5320 FSC now correctly sets MEM1 to the evaluation quantity in specified units when Simulation is enabled.
MCE-1202	FIXED	A 5502A, 5502E, or 5522A AC Voltage, Dual AC Voltage, or AC Power statement with Voltage, Current, or Frequency taken from a numeric register or named variable, and Waveform not specified, now compiles without error.
MCE-1068	FIXED	Resolved an issue to make use of instrument configuration file attached to the project during statement compile invoke when entering FSC statements.