Keysight SD1 software

2.01.15 Version Information

Released Date:	August, 2017
Operative systems:	Microsoft Windows XP
	Microsoft Windows 7, 10 (32-bit and 64-bit OS)
	openSUSE Leap 42.1 64-bit OS
Supported Modules:	M3100A, M3102A, M3201A, M3202A, M3300A, M3302A
File Name:	Windows: SD1software_2.01.15_installer.exe
	Linux: SD1software-2.01.15_x86_64.rpm

New Features

- Added support for Windows 10 Operative System.

- Module chassis detection when more than one chassis is connected.

- Removed unused trigger mode on triggerIOconfig functions.

- Added triggerIOconfigV5 for Virtex 5 legacy AWGs.

- Added sync mode parameter to triggerIOwrite functions.

Bug Fixes

- Improved clock initialization to eliminate one-sample start-up skew between channels in M3202A.

- Improved M32x clock configuration to support 1Hz resolution and delay response.

- Improved digitizer scope auto-mode capture.

KEYSIGHT
TECHNOLOGIES

2.01.07 Version Information

Released Date:	June, 2017
Operative systems:	Microsoft Windows XP
	Microsoft Windows 7 (32-bit and 64-bit OS)
	openSUSE Leap 42.1 64-bit OS
Supported Modules:	M3100A, M3102A, M3201A, M3202A, M3300A, M3302A
File Name:	Windows: SD1software_2.01.07_installer.exe
	Linux: SD1software-2.01.07_x86_64.rpm

New Features

- Sync/Immediate external triggers for AWGs (M320xA and M330xA) and DAQs (M310xA and M330xA).

- Added M3102A product support.

- Improved digitizer scope functionment.

2.01.05 Version Information

Released Date:	April, 2017
Operative systems:	Microsoft Windows XP
	Microsoft Windows 7 (32-bit and 64-bit OS)
	openSUSE Leap 42.1 64-bit OS
Supported Modules:	M3100A, M3102A, M3201A, M3202A, M3300A, M3302A
File Name:	Windows: SD1software_2.01.05_installer.exe
	Linux: SD1software-2.01.05_x86_64.rpm

New Features

- Added M3302A product support.

- Added *DAQcounterRead* function to M310xA modules.

- Software Front Panel:

  o Digitizer scope data can be saved to file.

  o Added digitizer prescaler compatibility on scope.

Bug Fixes

- Fixed *getSerial* functions on Python.

- Changed return type of AIN buffer pool on .NET from long-array to short-array.

- Changed waveform load and queue limits from 240 to 1024 on M320xA module.

2.01.00 Version Information

First software release.

Released Date:	March, 2017
Operative systems:	Microsoft Windows XP
	Microsoft Windows 7 (32-bit and 64-bit OS)
	openSUSE Leap 42.1 64-bit OS
Supported Modules:	M3100A, M3102A, M3201A, M3202A, M3300A, M3302A
File Name:	Windows: SD1software_2.01.00_installer.exe
	Linux: SD1software-2.01.00_x86_64.rpm

Features

- SD1 driver for SD1 modules

- Full custom control of SD1 modules with programming libraries:

  - C/C++, .NET 3.5/4.5, LabVIEW, MATLAB (using .NET), Python, Borland

  - New open module functions are added in order to make compatible the channel facing numbers with legacy models. For instance, using C++ and DIG module we have these new methods with a new compatibility parameter:

    ```
    int SD_AIN::open(const char* productName, const char* serialNumber, int compatibility);
    int SD_AIN::open(const char* productName, int chassis, int slot, int compatibility);
    ```

    The channels on new Keysight SD1 compatible modules are labeled from 1 while on legacy modules the labeling starts from 0. Modules are opened by default with the channel enumeration indicated in the front panel. However, it is possible to open the modules in compatibility mode, forcing the channel enumeration to start from 0 or from 1 depending on the selected option and regardless of the module version. This option is useful when new and legacy modules coexist or when the software must be compatible with both legacy and new modules.

- Software front panel for each module