

Leaflet

API replacement when migrating from SL1000 to SL2000

Migration to ScopeCorder SDK

When using the SL1000 Control API, you can migrate by adopting SL2000 and the ScopeCorder SDK.

By modifying part of the program, you can replace the SL1000 Control API with the ScopeCorder SDK.

ScopeCorder SDK

This software (ScopeCorder SDK) provides application programming interface (API) for waveform data acquisition in DL950/SL2000 series, transfer of data stored in flash acquisition memory to PC, file operation and file transfer functions.

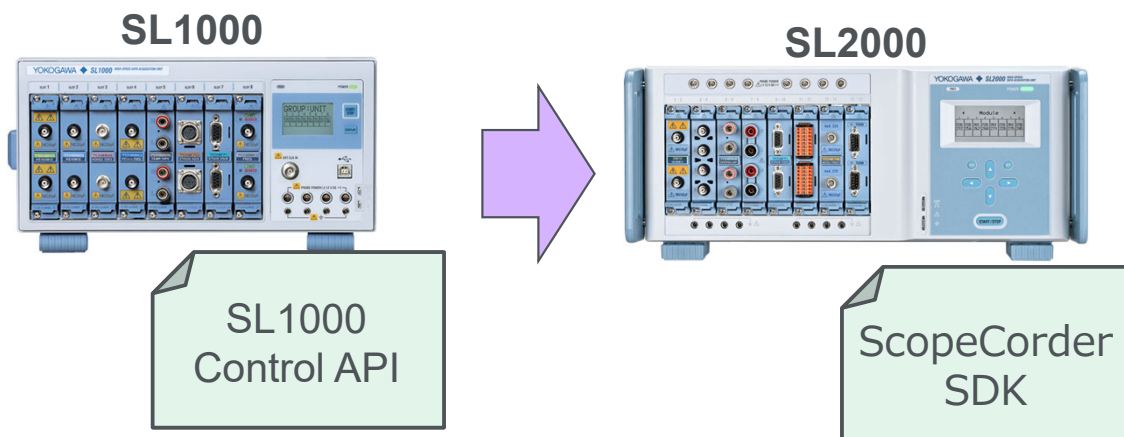
Applicable Model

DL950/SL2000 (firmware version is 2.01 or later)

* To operate via USB, a dedicated USB driver (YTUSB) is required.

Development Environment

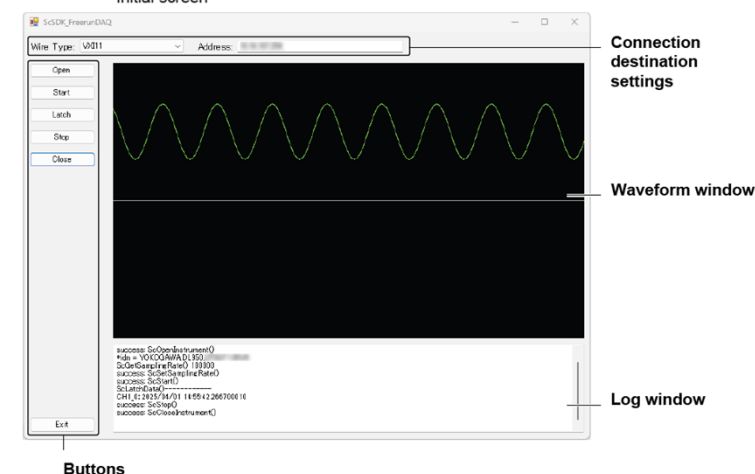
Visual Studio 2017 or later, .NET Framework 4.7 or later



Example of sample program

Data acquisition free run (freerun SingleUnit)

Initial screen



LF_SL1000APItoSL2000-01EN
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Comparison with the SL1000 Control API (SxAPI)

The following is a list of ScopeCorder SDK functions that have the same functionality as the SL1000 control API functions.

Function Description	SL1000 Control API	ScopeCorder SDK
Initialization	SxInit	ScInit
Close	SxExit	ScExit
Send a command	SxSetControl	ScSetControl
Send or get a command	SxGetControl	ScGetControl
		ScQueryMessage
Send or get a command	SxGetControlBinary	ScGetBinaryData
Create event handler, enable notification	SxCreateEvent	ScAddEventListener
		ScAddCallback
Delete event handler	SxDeleteEvent	ScRemoveEventListener
		ScRemoveCallback
Set the measuring mode	SxSetAcqMode	ScSetMeasuringMode
Set the sampling frequency	SxSetSamplingRate	ScSetSamplingRate
Get the sampling frequency	SxGetSamplingRate	ScGetSamplingRate
		ScGetChannelSamplingRate
Start measurement	SxAcqStart	ScStart
		ScStartEx
Stop measurement	SxAcqStop	ScStop
		ScStopEx
Execute latch	SxAcqLatch	ScLatchData
		ScLatchDataEx
Generate manual trigger	SxExecManualTrig	ScResumeAcquisition
Get acquisition data information	SxGetChannelInfo	ScGetChannelGain
		ScGetChannelOffset
Get the number of sample points in the latch interval	SxGetLatchLength	ScGetAcqDataLength
Get the latest acquisition number	SxGetLatestAcqNo	ScGetLatchAcqCount
Get waveform data	SxGetAcqData	ScGetLatchRawData
		ScGetChAcqData
Get data acquisition time	SxGetAcqTime	ScGetTriggerTime
Save setup information	SxSaveSetup	ScSaveSetup
Load setup information	SxLoadSetup	ScLoadSetup
Set the current drive	SxFileSetCurrentDrive	ScSetCurrentDrive
Get the current drive	SxFileGetCurrentDrive	ScGetCurrentDrive
Set the current directory	SxFileChDir	ScSetCurrentDirectory
Get the current directory	SxFileCwDir	ScGetCurrentDirectory
Get the number of files	SxFileGetFileNum	ScGetFileNum
Get file information	SxFileGetFileInfo	ScGetFileInfo
Delete files	SxFileDelete	ScDeleteFile
Get a file	SxFileGet	ScDownloadFile
Create a file	SxFilePut	ScUploadFile

Communication Command

To control the DL950/SL2000 and send or receive communication commands, use the following communication command control functions for transmission and reception.

Communication commands are sent and received using the following communication command control functions.

API Name	Function	Page
ScSetControl	Send a communication command	4-7
ScGetControl	Receive a response to a communication command	4-8
ScGetBinaryData	Receive binary data	4-9
ScQueryMessage	Send a communication command and receive its response	4-10

For details on communication command control functions, see “Common API.” For details on commands, see the DL950 ScopeCorder/SL2000 High-Speed Data Acquisition Unit Communication Interface User’s Manual, IM DL950-17EN.

Sample programs

This software includes the following sample programs.

Folder name	Description
file	File operation and transfer
flashacquisition	Flash acquisition data access
freerun	MultiUnit SingleUnit Data acquisition free run for multi-unit synchronization Data acquisition free run
reopen	Reconnect instruments and set measurement modes
trigger	MultiUnit SingleUnit Data acquisition trigger for multi-unit synchronization Data acquisition trigger

Each sample program is available in C++, C#, and VBNet.

Folder name	Description
ScSDKNetSample	Sample program (C#)
ScSDKSample	Sample program (C++)
ScSDKVBNetSample	Sample program (VBNet)

Use the APIs described in this manual by referring to these sample programs according to your environment.

Source: ScopeCorder SDK User’s Manual (IM D165-01EN) Chapter 5