

Keysight AgMD2 Driver

AgMD1 to AgMD2 Software migration note

Introduction

The AgMD1 driver is compliant with both the *IviDigitizer* and *IviScope* class standards from the IVI Foundation. However, support for the *IviScope* class has not been continued into the new AgMD2 driver. The methods and properties of the *IviScope* class cannot be directly migrated from AgMD1 to AgMD2, and will require any existing code which uses this class to be rewritten using the *IviDigitizer* class. The following sections detail how to perform the migration for the AgMD1 API to the AgMD2 API in specific programming languages.

C/C++ applications

1. In the project properties under 'Configuration Properties > Linker > Input', replace the additional dependency 'AgMD1.lib' by 'AgMD2.lib'.
2. In your code, replace the `#include <AgMD1.h>` statement(s) with `#include <AgMD2.h>`.
3. For each function call, replace the prefix: 'AgMD1_' with 'AgMD2_'.
4. For each attribute name, error code, and enum value, replace the prefix: 'AGMD1_' with 'AGMD2_'.
5. For certain functions, attributes, enum values, and repeated capability instances you will need to refer to the tables below to find an equivalent.

C# applications

1. From the *Solution Explorer*, under the project references, replace the 'AgMD1' reference by a reference to 'Agilent.AgMD2.Interop.dll'.
2. In your code, replace all occurrences of 'Agilent.AgMD1.Interop' with 'Agilent.AgMD2.Interop'.
3. Replace all occurrences of the class 'AgMD1' with 'AgMD2'.
4. Replace all interfaces prefixes: 'IAgMD1' with 'IAgMD2'.
5. Replace all unknown methods, properties, enum values, and repeated capability values by their AgMD2 equivalent using the (IVI-C) tables below.

Visual Basic (VB) applications

1. From project properties under 'References', replace the reference to AgMD1 by a reference to Agilent.AgMD2.Interop.
2. In the code, replace all occurrences of 'AgMD1' with 'D2AgMD2'.
3. Replace all unknown methods, properties, enum values, and repeated capability values by their AgMD2 equivalent using the (IVI-C) tables below.



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MATLAB applications

1. Replace the class of the driver instance: 'instrument.driver.AgMD1()' with 'instrument.driver.AgMD2()'.
2. Replace all unknown methods, properties, and repeated capability values by their AgMD2 equivalent using the (IVI-C) tables below.

NOTE Please note that MATLAB 2015a or later are not supported.

NOTE Please note that 32-bit IVI-COM will not be supported in MATLAB R2016a and later versions.

Exception Tables for AgMD1/AgMD2 IVI-C/IVI-COM signatures

The following tables list those functions (methods), attributes (properties), enum values, and repeated capability values which require more than just a simple prefix change for both **IVI-C** and **IVI-COM** drivers.

IVI-C Driver

Functions (methods)

AgMD1 Function name	AgMD2 Equivalent	Note
AgMD1_ConfigureSampleMode	None	IviDigitizerSampleMode extension not supported
AgMD1_ConfigureDownConversion	None	IviDigitizerDownconversion extension not supported
AgMD1_ConfigureTVTriggerSource	None	IviDigitizerTVTrigger extension not supported
AgMD1_ConfigureMultiTrigger	None	IviDigitizerMultiTrigger extension not supported
AgMD1_ConfigureTriggerModifier	None	IviDigitizerTriggerModifier extension not supported
AgMD1_AcquisitionConfigureRecord	None	IviScope class not supported - use Configure Acquisition Record and Trigger Delay
AgMD1_MeasurementFetchWaveformMeasurement	None	IviScope class not supported
AgMD1_MeasurementReadWaveformMeasurement	None	IviScope class not supported
AgMD1_DigitalDownconversionConfigure	None	No Equivalent function, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help
AgMD1_CounterRead	None	Specific to AgMD1
AgMD1_ReferenceLevelConfigure	None	IviScope class not supported
AgMD1_SystemPowerOnAll	None	Specific to AgMD1
AgMD1_SystemPowerOffAll	None	Specific to AgMD1
AgMD1_SystemSuspendControl	None	Specific to AgMD1
AgMD1_SystemResumeControl	None	Specific to AgMD1
AgMD1_CalibrationLoadCal	AgMD2_CalibrationLoadFromFile	



AgMD1 Function name	AgMD2 Equivalent	Note
AgMD1_CalibrationSaveCal	AgMD2_CalibrationSaveToFile	
AgMD1_CalibrationCalRequired	AGMD2_ATTR_CALIBRATION_IS_REQUIRED	
AgMD1_CalibrationSelfCalibrate	AgMD2_SelfCalibrate	
AgMD1_TemperatureGetModuleTemperature	AgMD2_QueryBoardTemperature	
AgMD1_LoadLogicDeviceFromFile	AgMD2_LogicDeviceLoadFromFile	
AgMD1_ReadRegisterInt32	AgMD2_LogicDeviceReadRegisterInt32	
AgMD1_WriteRegisterInt32	AgMD2_LogicDeviceWriteRegisterInt32	
AgMD1_ReadIndirectInt32	AgMD2_LogicDeviceReadIndirectInt32	
AgMD1_WriteIndirectInt32	AgMD2_LogicDeviceWriteIndirectInt32	

Attributes (properties)

AgMD1 Attribute name	AgMD2 Equivalent	Note
AGMD1_ATTR_SAMPLE_MODE	None	lviDigitizerSampleMode extension not supported
AGMD1_ATTR_DOWNCONVERSION_ENABLED	None	No Equivalent attribute, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help or to your digitizer user manual.
AGMD1_ATTR_DOWNCONVERSION_CENTER_FREQUENCY	None	No Equivalent attribute, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help or to your digitizer user manual.
AGMD1_ATTR_DOWNCONVERSION_IQ_INTERLEAVED	None	No Equivalent attribute, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help or to your digitizer user manual.
AGMD1_ATTR_TRIGGER_MODIFIER	None	lviDigitizerTriggerModifier extension not supported
AGMD1_ATTR_ACQUISITION_START_TIME	None	lviScope class not supported - use Trigger Delay
AGMD1_ATTR_ACQUISITION_TIME_PER_RECORD	None	lviScope class not supported
AGMD1_ATTR_ACQUISITION_NUMBER_OF_AVERAGES	None	lviScope class not supported
AGMD1_ATTR_ACQUISITION_REFERENCE_CHANNEL	None	Specific to AgMD1
AGMD1_ATTR_ACQUISITION_DITHER_ENABLED	None	Specific to AgMD1
AGMD1_ATTR_ACQUISITION_	None	Specific to AgMD1



AgMD1 Attribute name	AgMD2 Equivalent	Note
DITHER_RANGE		
AGMD1_ATTR_ACQUISITION_AUTO_ARM_ENABLED	None	lviDigitizerArm extension not supported
AGMD1_ATTR_CHANNEL_INPUT_FREQUENCY_MAX	None	lviScope class not supported
AGMD1_ATTR_CHANNEL_PROBE_ATTENUATION	None	lviScope class not supported
AGMD1_ATTR_CHANNEL_ACTIVE_INPUTS	AGMD2_ATTR_TIME_INTERLEAVED_CHANNEL_LIST	
AGMD1_ATTR_CHANNEL_CONVERTERS_PER_CHANNEL	None	Specific to AgMD1
AGMD1_ATTR_MEASUREMENT_WAVEFORM_TYPE	None	Specific to AgMD1
AGMD1_ATTR_DIGITAL_DOWNCONVERSION_DATA_BANDWIDTH	None	No Equivalent attribute, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help or to your digitizer user manual.
AGMD1_ATTR_DIGITAL_DOWNCONVERSION_TRIGGER_BANDWIDTH	None	No Equivalent attribute, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help or to your digitizer user manual.
AGMD1_ATTR_DIGITAL_DOWNCONVERSION_FREQUENCY_SHIFT	None	No Equivalent attribute, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help or to your digitizer user manual.
AGMD1_ATTR_DIGITAL_DOWNCONVERSION_DOUBLE_DATA_RATE_ENABLED	None	No Equivalent attribute, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help or to your digitizer user manual.
AGMD1_ATTR_DIGITAL_DOWNCONVERSION_FLIP_BAND_ENABLED	None	No Equivalent attribute, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help or to your digitizer user manual.
AGMD1_ATTR_COUNTER_APERTURE_TIME	None	Specific to AgMD1
AGMD1_ATTR_COUNTER_MODE	None	Specific to AgMD1
AGMD1_ATTR_REFERENCE_LEVEL_HIGH	None	lviScope class not supported
AGMD1_ATTR_REFERENCE_LEVEL_LOW	None	lviScope class not supported
AGMD1_ATTR_REFERENCE_LEVEL_MID	None	lviScope class not supported
AGMD1_ATTR_SYSTEM_TRACE_ENABLED	None	Specific to AgMD1 - use Trace init option
AGMD1_ATTR_SYSTEM_NBR_INSTRUMENTS	None	Specific to AgMD1

AgMD1 Attribute name	AgMD2 Equivalent	Note
AGMD1_ATTR_PXI_TRIG_OUT_ENABLED	None	Specific to AgMD1
AGMD1_ATTR_PXI_TRIG_SLOPE	None	Specific to AgMD1
AGMD1_ATTR_TRIGGER_OUTPUT_RESYNC_ENABLED	None	Specific to AgMD1
AGMD1_ATTR_TRIGGER_OUTPUT_MULTI_MODULE_SYNC_ENABLED	None	Specific to AgMD1
AGMD1_ATTR_EXT_TRIG_RANGE	None	Specific to AgMD1
AGMD1_ATTR_CONTROL_IO_SIGNAL_A	ControlIO repeated capability	
AGMD1_ATTR_CONTROL_IO_SIGNAL_B	ControlIO repeated capability	
AGMD1_ATTR_CONTROL_IO_SIGNAL_C	ControlIO repeated capability	
AGMD1_ATTR_INSTRUMENT_INFO_AQ_DRV_VERSION	AGMD2_ATTR_SPECIFIC_DRIVER_REVISION	
AGMD1_ATTR_INSTRUMENT_INFO_AQIO_VERSION	AGMD2_ATTR_INSTRUMENT_INFO_IO_VERSION	
AGMD1_ATTR_INSTRUMENT_INFO_CRATE_NUMBER	AGMD2_ATTR_INSTRUMENT_INFO_CHASSIS_NUMBER	
AGMD1_ATTR_INSTRUMENT_INFO_CPLD_FIRMWARE_REV	AGMD2_ATTR_INSTRUMENT_FIRMWARE_REVISION	
AGMD1_ATTR_INSTRUMENT_INFO_NBRADC_BITS	AGMD2_ATTR_INSTRUMENT_INFO_NBR_ADC_BITS	
AGMD1_ATTR_INSTRUMENT_INFO_BUS_NUMBER	None	Specific to AgMD1
AGMD1_ATTR_INSTRUMENT_INFO_DEVICE_ID	None	Specific to AgMD1
AGMD1_ATTR_INSTRUMENT_INFO_EEPROM_COMMON_SECTION_REV	None	Specific to AgMD1
AGMD1_ATTR_INSTRUMENT_INFO_EEPROM_DIGITIZER_SECTION_REV	None	Specific to AgMD1
AGMD1_ATTR_INSTRUMENT_INFO_HAS_HIGH_RES_SAMPLE_RATE	None	Specific to AgMD1
AGMD1_ATTR_INSTRUMENT_INFO_NBR_EXTERNAL_TRIGGERS	None	Specific to AgMD1
AGMD1_ATTR_INSTRUMENT_INFO_NBR_INTERNAL_TRIGGERS	None	Specific to AgMD1
AGMD1_ATTR_INSTRUMENT_INFO_NBR_MODULES_IN_INSTRUMENT	None	Specific to AgMD1



AgMD1 Attribute name	AgMD2 Equivalent	Note
AGMD1_ATTR_INSTRUMENT_INFO_SERIAL_NUMBER	None	Specific to AgMD1 - use INSTRUMENT_INFO_SERIAL_NUMBER_STRING
AGMD1_ATTR_INSTRUMENT_INFO_SLOT_NUMBER	None	Specific to AgMD1
AGMD1_ATTR_INSTRUMENT_INFO_FUNDAMENTAL_HANDLE	None	Specific to AgMD1

Enum values

AgMD1 enum value name	AgMD2 Equivalent	Note
AGMD1_VAL_IMMEDIATE_TRIGGER	Immediate TriggerSource repeated capability instance	
AGMD1_VAL_MAGNITUDE_TRIGGER	None	Specific to AgMD1
AGMD1_VAL_REFERENCE_OSCILLATOR_SOURCE_AXIE_CLK100	None	Specific to AgMD1
AGMD1_VAL_REFERENCE_OSCILLATOR_SOURCE_PXI_CLK10	None	Specific to AgMD1
AGMD1_VAL_REFERENCE_OSCILLATOR_SOURCE_PXIE_CLK100	None	Specific to AgMD1
AGMD1_VAL_TRIGGER_SOURCE_OPERATOR_NAND	None	Specific to AgMD1
AGMD1_VAL_TRIGGER_SOURCE_OPERATOR_NOR	None	Specific to AgMD1
AGMD1_VAL_SAMPLE_MODE_REAL_TIME	None	lviDigitizerSampleMode extension not supported
AGMD1_VAL_SAMPLE_MODE_EQUIVALENT_TIME	None	lviDigitizerSampleMode extension not supported
AGMD1_VAL_MEASUREMENT_RISE_TIME	None	lviScope class not supported
AGMD1_VAL_MEASUREMENT_FALL_TIME	None	lviScope class not supported
AGMD1_VAL_MEASUREMENT_FREQUENCY	None	lviScope class not supported
AGMD1_VAL_MEASUREMENT_PERIOD	None	lviScope class not supported
AGMD1_VAL_MEASUREMENT_VOLTAGERMS	None	lviScope class not supported
AGMD1_VAL_MEASUREMENT_VOLTAGE_PEAK_TO_PEAK	None	lviScope class not supported
AGMD1_VAL_MEASUREMENT_VOLTAGE_MAX	None	lviScope class not supported
AGMD1_VAL_MEASUREMENT_	None	lviScope class not supported



AgMD1 enum value name	AgMD2 Equivalent	Note
VOLTAGE_MIN		
AGMD1_VAL_MEASUREMENT_VOLTAGE_HIGH	None	IVI Scope class not supported
AGMD1_VAL_MEASUREMENT_VOLTAGE_LOW	None	IVI Scope class not supported
AGMD1_VAL_MEASUREMENT_VOLTAGE_AVERAGE	None	IVI Scope class not supported
AGMD1_VAL_MEASUREMENT_WIDTH_NEG	None	IVI Scope class not supported
AGMD1_VAL_MEASUREMENT_WIDTH_POS	None	IVI Scope class not supported
AGMD1_VAL_MEASUREMENT_DUTY_CYCLE_NEG	None	IVI Scope class not supported
AGMD1_VAL_MEASUREMENT_DUTY_CYCLE_POS	None	IVI Scope class not supported
AGMD1_VAL_MEASUREMENT_AMPLITUDE	None	IVI Scope class not supported
AGMD1_VAL_MEASUREMENT_VOLTAGE_CYCLE_RMS	None	IVI Scope class not supported
AGMD1_VAL_MEASUREMENT_VOLTAGE_CYCLE_AVERAGE	None	IVI Scope class not supported
AGMD1_VAL_MEASUREMENT_OVERSHOOT	None	IVI Scope class not supported
AGMD1_VAL_MEASUREMENT_PRESHOOT	None	IVI Scope class not supported
AGMD1_VAL_MEASUREMENT_DC_OFFSET	None	IVI Scope class not supported
AGMD1_VAL_MEASUREMENT_PHASE_ANGLE	None	IVI Scope class not supported
AGMD1_VAL_MEASUREMENT_PULSE_REPETITION_FREQUENCY	None	IVI Scope class not supported
AGMD1_VAL_CALIBRATE_TYPE_FULL	None	Specific to AgMD1
AGMD1_VAL_CALIBRATE_TYPE_CHANNEL_CONFIGURATION	None	Specific to AgMD1
AGMD1_VAL_CALIBRATE_TYPE_EXT_CLOCK_TIMING	None	Specific to AgMD1
AGMD1_VAL_CALIBRATE_TYPE_CURRENT_FREQUENCY	None	Specific to AgMD1
AGMD1_VAL_CALIBRATE_TYPE_FAST	None	Specific to AgMD1
AGMD1_VAL_MEASUREMENT_	None	Specific to AgMD1



AgMD1 enum value name	AgMD2 Equivalent	Note
WAVEFORM_TYPE_UNKNOWN		
AGMD1_VAL_MEASUREMENT_WAVEFORM_TYPE_SINE	None	Specific to AgMD1
AGMD1_VAL_MEASUREMENT_WAVEFORM_TYPE_SQUARE	None	Specific to AgMD1
AGMD1_VAL_MEASUREMENT_WAVEFORM_TYPE_RAMP	None	Specific to AgMD1
AGMD1_VAL_MEASUREMENT_WAVEFORM_TYPE_PULSEDDC	None	Specific to AgMD1
AGMD1_VAL_MEASUREMENT_WAVEFORM_TYPE_STEP	None	Specific to AgMD1
AGMD1_VAL_ACQUISITION_MODE_DOWNCONVERTER	None	Specific to AgMD1
AGMD1_VAL_ACQUISITION_MODE_COUNTER	None	Specific to AgMD1
AGMD1_VAL_COUNTER_MODE_FREQUENCY	None	Specific to AgMD1
AGMD1_VAL_COUNTER_MODE_PERIOD	None	Specific to AgMD1
AGMD1_VAL_COUNTER_MODE_TOTALIZE_TIME	None	Specific to AgMD1
AGMD1_VAL_COUNTER_MODE_TOTALIZE_GATE	None	Specific to AgMD1

Repeated capability physical identifiers

Repeated capability	AgMD1 instance	AgMD2 value	Note
TriggerSource	Channel <i>i</i>	Internal <i>i</i>	<i>i</i> = 1 to (number of channels)

IVI-COM Driver

Methods

AgMD1 Method name	AgMD2 Equivalent	Note
IAgMD1ChannelDigitalDownconversion.Configure	None	No equivalent property, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help
IAgMD1TriggerTV.Configure	None	IviDigitizerTVTrigger extension not supported
IAgMD1MultiTrigger.Configure	None	IviDigitizerMultiTrigger extension not supported
IAgMD1Acquisition.ConfigureAcquisition	None	IviScope class not supported - use Configure Acquisition



AgMD1 Method name	AgMD2 Equivalent	Note
		ition Record and Trigger Delay
IAgMD1ChannelMeasurement.ReadWaveformMeasurement	None	IviScope class not supported
IAgMD1ChannelMeasurement.FetchWaveformMeasurement	None	IviScope class not supported
IAgMD1ChannelDigitalDownconversion.Configure	None	No equivalent property, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help
IAgMD1Channel2Counter.Read	None	Specific to AgMD1
IAgMD1ReferenceLevel.Configure	None	IviScope class not supported
IAgMD1System.PowerOnAll	None	Specific to AgMD1
IAgMD1System.PowerOffAll	None	Specific to AgMD1
IAgMD1System.SuspendControl	None	Specific to AgMD1
IAgMD1System.ResumeControl	None	Specific to AgMD1
IAgMD1Calibration.LoadCal	IAgMD2Calibration.LoadFromFile	
IAgMD1Calibration.SaveCal	IAgMD2Calibration.SaveToFile	
IAgMD1Calibration.CalRequired	IAgMD2Calibration.IsRequired Property	
IAgMD1Calibration.SelfCalibrate	IAgMD2Calibration.SelfCalibrate	
IAgMD1Temperature.GetModuleTemperature	None	IAgMD2Temperature.BoardTemperature Property
IAgMD1LogicDevice.LoadLogicDeviceFromFile	IAgMD2LogicDevice.LoadFromFile	

Properties

AgMD1 Property name	AgMD2 Equivalent	Note
IAgMD1Acquisition.SampleMode	None	IviDigitizerSampleMode extension not supported
IAgMD1Channel.DigitalDownconversion	None	No equivalent property, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help
IAgMD1Channel3Downconversion.Enabled	None	No equivalent property, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help
IAgMD1Channel3Downconversion.CenterFrequency	None	No equivalent property, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help
IAgMD1Channel3Downconversion.IQInterleaved	None	
IAgMD1Trigger.Modifier	None	IviDigitizerTriggerModifier extension not supported



AgMD1 Property name	AgMD2 Equivalent	Note
IAgMD1Acquisition.StartTime	None	IviScope class not supported - use Trigger Delay
IAgMD1Acquisition.TimePerRecord	None	IviScope class not supported
IAgMD1Acquisition.NumberOfAverages	None	IviScope class not supported
IAgMD1Channels.ReferenceChannel	None	Specific to AgMD1
IAgMD1Acquisition.DitherEnabled	None	Specific to AgMD1
IAgMD1Acquisition.DitherRange	None	Specific to AgMD1
IAgMD1Arm.Enabled	None	IviDigitizerArm extension not supported
IAgMD1Channel.InputFrequencyMax	None	IviScope class not supported
IAgMD1Channel.ProbeAttenuation	None	IviScope class not supported
IAgMD1Channels.ActiveInputs	IAgMD2Channel.TimeInterleavedChannelList	
IAgMD1Channels.ConvertersPerChannel	None	Specific to AgMD1
IAgMD1ChannelMeasurement.WaveformType	None	Specific to AgMD1
IAgMD1ChannelDigitalDownconversion.DataBandwidth	None	No equivalent property, Digital Down Conversion methodology differs between AgMD1 and AgMD2. Please refer to AgMD2 IVI Driver Help
IAgMD1ChannelDigitalDownconversion.TriggerBandwidth	None	
IAgMD1ChannelDigitalDownconversion.FrequencyShift	None	
IAgMD1ChannelDigitalDownconversion.DoubleDataRateEnabled	None	
IAgMD1ChannelDigitalDownconversion.FlipBandEnabled	None	
IAgMD1Channel2Counter.ApertureTime	None	Specific to AgMD1
IAgMD1Channel2Counter.Mode	None	Specific to AgMD1
IAgMD1ReferenceLevel.High	None	IviScope class not supported
IAgMD1ReferenceLevel.Low	None	IviScope class not supported
IAgMD1ReferenceLevel.Mid	None	IviScope class not supported
IAgMD1System.TraceEnabled	None	Specific to AgMD1 - use Trace init option
IAgMD1System.NbrInstruments	None	Specific to AgMD1
IAgMD1Trigger.PxiTrigOutEnabled	None	Specific to AgMD1
IAgMD1Trigger.PxiTrigSlope	None	Specific to AgMD1
IAgMD1TriggerOutput.ResyncEnabled	None	Specific to AgMD1
IAgMD1TriggerOutput2.MultiModuleSyncEnabled	None	Specific to AgMD1
IAgMD1TriggerSource.ExtTrigRange	None	Specific to AgMD1



AgMD1 Property name	AgMD2 Equivalent	Note
IAgMD1ControlIO.SignalA	ControlIO repeated capability	
IAgMD1ControlIO.SignalB	ControlIO repeated capability	
IAgMD1ControlIO.SignalC	ControlIO repeated capability	
IAgMD1InstrumentInfo.AqDrvVersion	None	
IAgMD1InstrumentInfo.AqIOVersion	IAgMD2InstrumentInfo.IOVersion	
IAgMD1InstrumentInfo.CrateNumber	IAgMD2InstrumentInfo.ChassisNumber	
IAgMD1InstrumentInfo.CPLDFirmwareRev	None	
IAgMD1InstrumentInfo.NbrADCBits	IAgMD2InstrumentInfo.NbrADCBits	
IAgMD1InstrumentInfo.BusNumber	None	Specific to AgMD1
IAgMD1InstrumentInfo.DeviceID	None	Specific to AgMD1
IAgMD1InstrumentInfo.EEPROMCommonSectionRev	None	Specific to AgMD1
IAgMD1InstrumentInfo.EEPROMDigitizerSectionRev	None	Specific to AgMD1
IAgMD1InstrumentInfo.HasHighResSampleRate	None	Specific to AgMD1
IAgMD1InstrumentInfo.NbrExternalTriggers	None	Specific to AgMD1
IAgMD1InstrumentInfo.NbrInternalTriggers	None	Specific to AgMD1
IAgMD1InstrumentInfo.NbrModulesInInstrument	None	Specific to AgMD1
IAgMD1InstrumentInfo.SerialNumber	None	Specific to AgMD1 - use IAgMD2InstrumentInfo.SerialNumberString
IAgMD1InstrumentInfo.SlotNumber	None	Specific to AgMD1
IAgMD1InstrumentInfo2.FundamentalHandle	None	Specific to AgMD1

Enum values

AgMD1 enum value name	AgMD2 Equivalent	Note
AgMD1TriggerImmediate	Immediate TriggerSource repeated capability instance	
AgMD1TriggerMagnitude	None	Specific to AgMD1
AgMD1ReferenceOscillatorSourceAXleClk100	None	Specific to AgMD1
AgMD1ReferenceOscillatorSourcePXIClk10	None	Specific to AgMD1
AgMD1ReferenceOscillatorSourcePXleClk100	None	Specific to AgMD1
AgMD1TriggerSourceOperatorNAND	None	Specific to AgMD1
AgMD1TriggerSourceOperatorNOR	None	Specific to AgMD1



AgMD1 enum value name	AgMD2 Equivalent	Note
AgMD1SampleModeRealTime		IVI-DigitizerSampleMode extension not supported
AgMD1SampleModeEquivalentTime		IVI-DigitizerSampleMode extension not supported
AgMD1MeasurementRiseTime	None	IVI-Scope class not supported
AgMD1MeasurementFallTime	None	IVI-Scope class not supported
AgMD1MeasurementFrequency	None	IVI-Scope class not supported
AgMD1MeasurementPeriod	None	IVI-Scope class not supported
AgMD1MeasurementVoltageRMS	None	IVI-Scope class not supported
AgMD1MeasurementVoltagePeakToPeak	None	IVI-Scope class not supported
AgMD1MeasurementVoltageMax	None	IVI-Scope class not supported
AgMD1MeasurementVoltageMin	None	IVI-Scope class not supported
AgMD1MeasurementVoltageHigh	None	IVI-Scope class not supported
AgMD1MeasurementVoltageLow	None	IVI-Scope class not supported
AgMD1MeasurementVoltageAverage	None	IVI-Scope class not supported
AgMD1MeasurementWidthNeg	None	IVI-Scope class not supported
AgMD1MeasurementWidthPos	None	IVI-Scope class not supported
AgMD1MeasurementDutyCycleNeg	None	IVI-Scope class not supported
AgMD1MeasurementDutyCyclePos	None	IVI-Scope class not supported
AgMD1MeasurementAmplitude	None	IVI-Scope class not supported
AgMD1MeasurementVoltageCycleRMS	None	IVI-Scope class not supported
AgMD1MeasurementVoltageCycleAverage	None	IVI-Scope class not supported
AgMD1MeasurementOverShoot	None	IVI-Scope class not supported
AgMD1MeasurementPreshoot	None	IVI-Scope class not supported
AgMD1MeasurementDCOffset	None	IVI-Scope class not supported
AgMD1MeasurementPhaseAngle	None	IVI-Scope class not supported
AgMD1MeasurementPulseRepetitionFrequency	None	IVI-Scope class not supported
AgMD1CalibrateTypeFull	None	Specific to AgMD1
AgMD1CalibrateTypeChannelConfiguration	None	Specific to AgMD1
AgMD1CalibrateTypeExtClockTiming	None	Specific to AgMD1
AgMD1CalibrateTypeCurrentFrequency	None	Specific to AgMD1
AgMD1CalibrateTypeFast	None	Specific to AgMD1
AgMD1MeasurementWaveformTypeUnknown	None	Specific to AgMD1
AgMD1MeasurementWaveformTypeSine	None	Specific to AgMD1
AgMD1MeasurementWaveformTypePulse	None	Specific to AgMD1



AgMD1 enum value name	AgMD2 Equivalent	Note
MeasurementWaveformTypeSquare		
AgMD1MeasurementWaveformTypeRamp	None	Specific to AgMD1
AgMD1MeasurementWaveformTypePulsedDC	None	Specific to AgMD1
AgMD1MeasurementWaveformTypeStep	None	Specific to AgMD1
AgMD1AcquisitionModeDownconverter	AgMD2DigitalDownconverter	
AgMD1AcquisitionModeCounter	None	Specific to AgMD1
AgMD1CounterModeFrequency	None	Specific to AgMD1
AgMD1CounterModePeriod	None	Specific to AgMD1
AgMD1CounterModeTotalizeTime	None	Specific to AgMD1
AgMD1CounterModeTotalizeGate	None	Specific to AgMD1

Repeated capability physical identifiers

Repeated capability	AgMD1 value	AgMD2 value	Note
TriggerSource	Channel <i>i</i>	Internal <i>i</i>	<i>i</i> = 1 to (number of channels)