API transferring log 4.x -> 5.x

This document contains changes from the SpectralRadar SDK API from version 4.x to 5.x.

Version 4.x	Version 5.x	Comment
acquirePhotonTransferFunction		Removed
addFileBinaryData		Removed.
applyConvolutionFilter2D	convolutionFilter2D	Removed. Use suggested function instead.
applyFilter	convolutionFilter2D	Renamed.
applyFilter	predefinedComplexFilter2D or darkFieldComplexFilter2D or brightFieldComplexFilter2D	Removed. Use suggested functions instead.
applyMedianFilter2D_1x	medianFilter1D	Removed. Use suggested function instead.
applyNonlinearPrewittFilter2D	predefinedFilter2D	Removed. Use suggested function with selection "Filter2D_NonlinearPrewitt" instead.
applyNonlinearSobelFilter2D	predefinedFilter2D	Removed. Use suggested function with selection "Filter2D_NonlinearSobel" instead.
blendEnFaceInCamera		Removed
calcParableMaximum	calcParabolaMaximum	Renamed.
checkAvailableMemoryForRawData	checkAvailableMemoryForScanPattern	Renamed.
checkAvailableMemoryForScanPattern	checkAvailableMemoryForRawData	Renamed.
clearColoring32Bit	clearColoring	Renamed.
closeDopplerProcessing	clearDopplerProcessing	Renamed.
closeProcessing	clearProcessing	Renamed.
ColoredDataHandle getFileColoredData(OCTFileHandle handle, size_t index)	void getFileColoredData(OCTFileHandle handle, ColoredDataHandle data, size_t index)	Parameters changed.
Coloring32BitHandle	ColoringHandle	Renamed.
ComplexDataHandle getFileComplexData(OCTFileHandle handle, size_t index)	void getFileComplexData(OCTFileHandle handle, ComplexDataHandle data, size_t index)	Parameters changed.
containsFile	containsFileDataObject	Renamed.
containsRawData	containsFileRawData	Renamed.
correctImageFieldFromProbe		Removed. Use correctImageField and createImageFieldForProbe instead.
correctSurface		Requires additional specification of the ScanPattern that was used to acquire the surface.
createBilateralBScanPattern		Removed.
createDiskBuffer		Removed.

createDopplerProcessingForProcessing		Removed. Use createDopplerProcessing.
createFragmentedScanPattern	createNoScanPattern	Renamed.
createFreeformScanPattern	createFreeformScanPattern2D, createFreeformScanPattern2DFromLUT, createFreeformScanPattern3D or createFreeformScanPattern3DFromLUT	Use one of the suggested functions instead.
createPointScanPattern	createAScanPattern	Renamed.
createTriggerPattern	createAScanPattern or createNoScanPattern	Use one of the suggested functions instead.
cropData	cropData	Expects two indices instead of one.
cropDataEx		This function has been removed.
Data1DExportFormat	DataExportFormat	Renamed.
Data2DExportFormat	DataExportFormat	Renamed.
Data3DExportFormat	DataExportFormat	Renamed.
DataHandle getFileRealData(OCTFileHandle handle, size_t index)	void getFileRealData(OCTFileHandle handle, DataHandle data, int index)	Parameters changed.
DataKind enum	DataObjectType enum	Enum name changed
determineDynamicRange		Removed.
determineImageFieldForProbe		Removed. Use determineImageField instead.
determineImageFieldForProbeWithMap		Removed. Use new function determineImageFieldWithMask instead.
determineImageFieldWithMap	determineImageFieldWithMask	Renamed.
determineThickness		Removed.
DevicePreset		Removed. Use integer values instead. Use "getNumberOfDevicePresets" to receive the number of valid presets for the specific system.
doesOutputExist	doesOutputDeviceValueExist	Renamed.
Doppler* processing properties	Doppler_* processing properties	Enum member names changed.
enum CornerPos		Removed; Was no longer used by the API
equalizeColoredDataHistogram		Removed.
equalizeDataHistogram		Removed.
equalizeDataHistogramLocally		Removed.
expectedAcquisitionTimeSec	expectedAcquisitionTime_s	Renamed.
exportData1D	exportData	Renamed.
exportData2D	exportData	Renamed.
exportData3D	exportData	Renamed.
exportData3DAsImage	exportDataAsImage	Booleans drawScale, drawMarkers, and physicalAspectRatio were replaced by a single mask that can be combined by bitwise "or". Possible mask values are ExportOption_DrawScaleBar, ExportOption_DrawMarkers, and ExportOption_UsePhysicalAspectRatio

exportDataAs2DImage	exportDataAsImage	Booleans drawScale, drawMarkers, and physicalAspectRatio were replaced by a single mask that can be combined by bitwise "or". Possible mask values are ExportOption_DrawScaleBar, ExportOption_DrawMarkers, and ExportOption_UsePhysicalAspectRatio Requires now a direction that is only used or 3D export
FF_* enum members	FileFormat_* enum members	Enum member names changed
FileMetadataStringFieldToStringRef	FileMetadataStringToStringRef	Renamed.
findFile	findFileDataObject	Renamed.
flattenImage		Removed.
FMD_* enum members	FileMetadata_* enum members	Enum member names changed
gaussianFilter	predefinedFilter2D	Removed. Use suggested function with selection "Filter2D_Gaussian_3x3" or "Filter2D_Gaussian_5x5" instead.
getCameraImage		Parameter changed. SizeX and SizeY removed, control size of video camera with entries in configuration file "Probe.ini".
getCameraPreset	getDevicePreset	Renamed.
getCameraPresetDescription	getDevicePresetDescription	Renamed.
getDataSliceAnalyzed	computeDataProjection	Function name is now more descriptive, the functionality is still the same. Parameter name also changes, to make the declaration more didactic.
getDevicePresetDescription		Parameter and return value changed.
getDeviceRevision	getDevicePropertyInt	Function removed, use suggested function with selection "Device_RevisionNumber" instead.
getDeviceSerialNumber	getDevicePropertyString	Function removed, use suggested function with selection "Device_SerialNumber" instead.
getDeviceType	getDevicePropertyString	Function removed, use suggested function with selection "Device_Type" instead.
getFileBinaryData		Removed.
getFileDataFileCount	getFileDataObjectCount	Renamed.
getFileDataFileName	getFileDataObjectName	Renamed.
getFileDataFileType	getFileDataObjectType	Renamed.
getFileMetadataBool	getFileMetadataFlag	Renamed.
getFlippedCameraImage	getCameraImage	Function removed. If the image is flipped/mirrored can be handled with the corresponding entries in the Probe.ini.

getInternalValueByIndex	getInternalDeviceValueByIndex	Renamed.
getInternalValueByName	getInternalDeviceValueByName	Renamed.
getInternalValueName	getInternalDeviceValueName	Renamed.
getMirroredCameraImage	getCameraImage	Function removed. If the image is flipped/mirrored can be handled with the corresponding entries in the Probe.ini.
getNumberOfCameraPresets	getNumberOfDevicePresets	Renamed.
getNumberOfInternalValues	getNumberOfInternalDeviceValues	Renamed.
getNumberOfOutputValues	getNumberOfOutputDeviceValues	Renamed.
getOutputValueName	getOutputDeviceValueName	Renamed.
getOutputValueRangeByName	getOutputDeviceValueRangeByName	Renamed.
getProbeName	getProbeParameterString	Function removed, use suggested function with selection "Probe_Name" instead.
getProbePropertyInt with selection "Probe_MaxScanRangeShape"	getProbeMaxScanRangeShape	Selection removed, use suggested function instead.
getProbeSerialNo	getProbeParameterString	Function removed, use suggested function with selection "Probe_SerialNumber" instead.
getProcessingType	getProcessing_FFTType	
getRawDataSize		Use getRawDataPropertyInt instead, with arguments RawData_Size2 (x axis), RawData_Size3 (y axis), or RawData_Size1 (z axis).
getRawDataSliceIndex	getRawDataSliceAtIndex	Just a rename.
getSettingsEntryDouble	getSettingsEntryFloat	Renamed.
getTriggerTimeoutSec	getTriggerTimeout_s	Renamed.
getWavelengthAtPixel		Function removed.
initProbeWithType	initDefaultProbe	Function removed. Use initDefaultProbe function with appropriate args.
initStandardProbe	initDefaultProbe	Renamed and two parameters should be given: the probe type and the objective.
int getApodizationWindow	ApodizationWindow getApodizationWindow	Return type changed
interpolateScanPattern		This function has been removed. See "createFreeFormScanPattern".
isDeviceOn	getDeviceFlag	Function removed, use suggested function with selection "Device_On" instead.
isSLDAvailable	getDeviceFlag	Function removed, use suggested function with selection "Device_SLDAvailable" instead.
isVideoCameraAvailable	getDeviceFlag	Function removed, use suggested function with selection "Device_CameraAvailable" instead.

laplacianFilter	predefinedFilter2D	Removed. Use suggested function with selection "Filter2D_Laplacian" instead.
levelData		Removed.
loadImageField		Removed. Image Fields can be loaded from Probe files.
loadSettingsFile	initSettingsFile	Renamed.
lockData		This function had never been implemented. It has been removed.
meanFreeformScanPatternLength	getScanPatternPropertyFloat	Use suggested function with "ScanPattern_MeanLength_mm"
measureSpectrum		Removed. Use moveToApodization and measureCalibration instead.
medianFilter	medianFilter1D or medianFilter2D	Removed. Use suggested functions instead.
OCTFile_SpectralDataName	DataObjectName_SpectralData	
pepperFilter	pepperFilter2D	Removed. Use suggested function instead.
polynomialFilter2D		Removed.
prewittFilter	predefinedFilter2D	Removed. Use suggested function with selection "Filter2D_Prewitt_Horizontal_3x3" or "Filter2D_Prewitt_Vertical_3x3 " instead.
Probe_CameraInverted_X		Removed. Use VideoCameraFlip entries in Probe.ini instead.
Probe_CameraInverted_Y		Removed. Use VideoCameraFlip entries in Probe.ini instead.
ProcessingType	Processing_FFTType	Enum changed, affects all using functions.
QuantumEfficiency		Removed.
RawDataHandle getFileRawData(OCTFileHandle handle, size_t index)	void getFileRawData(OCTFileHandle handle, RawDataHandle data, size_t index)	Parameters changed.
refstageAvailable	isRefstageAvailable	Renamed.
refstageGetLength_mm	getRefstageLength_mm	Renamed.
refstageGetPosition_mm	getRefstagePosition_mm	Renamed.
refstageGetStatus	getRefstageStatus	Renamed.
refstageHome	homeRefstage	Renamed.
refstageMoveAbsolute	moveRefstageToPosition_mm	Renamed, additional parameter for the movement speed.
refstageMoveLonger	startRefstageMovement	Function removed, use suggested function instead.
refstageMoveShorter	startRefstageMovement	Function removed, use suggested function instead.
refstageSetPosChangeCallback	setRefstagePosChangedCallback	Renamed.
refstageSetSpeed	setRefstageSpeed	Renamed.
refstageSetStatusCallback	setRefstageStatusCallback	Renamed.

refstageStop	stopRefstageMovement	Renamed.
removeSignal		This function has been removed. Had neither been used in the GUI nor in LabVIEW.
rotateScanPatternExt	rotateScanPatternEx	Renamed.
saveCalibrationAuto	saveCalibrationDefault	Renamed.
saveCalibrationAutoEx	saveCalibrationDefaultEx	Renamed.
saveImageField		Removed. Image Fields can be stored in Probe files.
saveMetadata	saveFileMetadata	
setAveraging	setSpeckleVariancePropertyInt	Properties replace the 3 averaging axes.
setCameraPreset	setDevicePreset	Renamed, parameters changed.
setCameraPresetEx	setDevicePresetEx	Renamed, parameters changed.
setCameraShowScanPattern	setDeviceFlag	Function removed, use suggested function with selection "Device_CameraShowScanPattern" instead.
setFileMetadataBool	setFileMetadataFlag	Renamed.
setInternalValueByIndex	setInternalDeviceValueByIndex	Renamed.
setLaserDiode	setDeviceFlag	Function removed, use suggested function with selection "Device_LaserDiodeStatus" instead.
setMarkerListFromRealData	copyMarkerListFromRealData	Renamed.
setMarkerListInRealData	copyMarkerListToRealData	Renamed.
setOutputValueByName	setOutputDeviceValueByName	Renamed.
setProbeName	setProbeParameterString	Function removed, use initdefaultProbe function with selection "Probe_Name" instead.
setProbeSerialNo	setProbeParameterString	Function removed, use suggested function with selection "Probe_SerialNumber" instead.
setSettingsEntryDouble	setSettingsEntryFloat	
setSLD	setDeviceFlag	Function removed, use suggested function with selection "Device_SLDStatus" instead.
setSpeckleVarianceThreshold	setSpeckleVariancePropertyFloat	Parameter of old function replaced by property.
setTriggerTimeoutSec	setTriggerTimeout_s	Renamed.
shiftScanPatternExt	shiftScanPatternEx	Renamed.
smoothCurve1D		Removed.
sobelFilter	predefinedFilter2D	Removed. Use suggested function with selection "Filter2D_Sobel_Horizontal_3x3" or "Filter2D_Sobel_Vertical_3x3 " instead.
thresholdData		Removed.
thresholdDataPtByPt	thresholdDopplerData	Just a rename.
transpose	transposeData	Just a rename.

transposeInPlace	transposeDataInPlace	Just a rename.
unlockData		This function had never been implemented. It has been removed.
visualCalibrate_CameraCenter		Removed
visualCalibrate_getVideoCameraCenterImage		Removed
visualizeScanPattern	visualizeScanPatternOnDevice	Renamed.
zoomScanPattern		Additional parameter of Type ScanPattern_ZoomCenter