SICK AppSpace SDK 1.1.0 release note



Revision history

Status	RELEASED
Version	1.0
Last update	29 Aug 2023
Revision comments	

Summary

SICK AppSpace - SDK (free demo) is the Software Development Kit for the creation of application software for programmable sensors, released as an extension in the Visual Studio Code marketplace. This document pertains to the version 1.1.0, released on 29 Aug 2023. It contains an overview of the important new features, improvements, fixes, remaining known limitations and issues, since version 1.0.3 from February 2023.

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Highlights

Free usage

SICK AppSpace - SDK (free demo) is published in the VSCode Marketplace.

It is publicly available and usable for free. The user receives and agrees to a free demo license according to the general terms and condition. The user further agrees to send telemetry data according to https://www.sick.com/de/en/privacy-policy-data-processing-information-sick-appspace-tools/w/dataprotection-dataprocessing-information/.

Included in this release is a **getting started guide** which provides installation instructions and a **how-to build your first sensor app** (https://github.com/SICKAG/SICK-AppSpace-SDK-Docs). The user may download the SICK AppEngine(x64) for Windows or for Linux and use it for non-productive use in a demo mode.

Features

Develop & Execute

LUA language support is added to the editor. This includes support for SensorApp specific language features and device and algorithm APIs. With the UI-Builder, user interfaces for SensorApps are created in a structured view, just by drag and drop of UI Elements.

Execute the SensorApp directly to a connected programmable device.

Building the source code as a SensorApp package, completes the development journey.

Device file system access

The device file system is integrated with VSCode to provide easy access to files on the device.

Device Console

The device console shows the output of deployed SensorApps in VSCode and thus provides immediate feedback.

Changelog

1.1.0 - 29 Aug 2023



Due to the update of the "Device connectivity services" a reinstallation of those services is required. The device configuration (device list) will be lost, but can be manually restored.

See "known issue device list empty after update"



We replaced the formatter that is used for LUA files. Therefore you might have to update your configuration.

See "known issue lua format options not used"

Features

- Multiple instances of VSCode are now supported
- Debugging
 - See line execution time
 - View & traverse the callstack (AppEngine >= 3.0.0)
 - View local variables
 - View global variables
 - Use "watch" (Expressions are not supported)
 - 2D/3D image viewer (experimental)
- App development & Packaging
 - Jump to CROWN from the CROWN viewer
 - SAPKs now contain build information about the tooling and build-environment
- AppManagement
 - Start, stop and delete apps on a device
- UI-Builder
 - Update to @sick-appspace/uibuilder@3.5.0, @sick-appspace/uibuilderservice@6.0.0, @sick-appspace/controllibrary@4.0.1
 - The control library will now be extracted to AppData, so it won't be replaced on updates

Fixes

- Device connectivity
 - Closing VSCode while installing the device connectivity services no longer results in broken installation
- Device file system
 - Renaming directories
- App development & deployment
 - Manifest changes of newly created apps are now handled
 - App names are now determined by the project.mf.xml instead of the directory name
 - App deployment issues with slow devices
 - Packaging SAPKs that include apps with "big" or very many files
- Lua language support
 - Code completion now works on empty lines after comments
 - Code completion issues when typing too fast
 - Diagnostics & completion for standard lua functions

1.0.3 - 01 Feb 2023



(1) Currently updates of the "Device connectivity" extension results in a loss of the device list/configuration. The device list is not automatically migrated, but you can restore it.

Fixes

- Fix occasional crash of the device communication services
- Fixed bug that caused the AppSpace SDK to load indefinitely
- Fixed bug that resulted in huge log files
- Fix some issues after a device list refresh, when the selected device is no longer reachable

1.0.2 - 10 Jan 2023

Fixes

 Fixed bug, preventing the SICK AppSpace Programmable Core plugin to activate. For users having such issues in 1.0.1: Please update first to 1.0.2, then delete the following folder:

```
windows: %appdata%/SICK/AppSpace/MaxwellConnect
linux: ~/.config/SICK/AppSpace/MaxwellConnect
```

Be aware that this removes all your devices from the device list. We apologize for this inconvenience.

1.0.1 - 14 Dec 2022

Fixes

- · Correct and faster manifest download
- Loosen file name restrictions
- Errors in "Redhat XML" no longer prevents start of the SICK AppSpace SDK
- Trigger manifest change for new apps
- Generate "desc" attribute for served function parameters (was shown as an error before)

Roadmap

Limitation	Description
CLI	A Command Line Interface is planned to be released in a future version.
FlowEditor	The FlowEditor to define data flows is planned to be released in a future version.
Usability	Settings and detailed configurations are based on text file. Depending on user feedback, we may offer user interface for certain configurations.

Limitations

Limitation	Description
Protect SensorApp	Protection settings for your SensorApp to restrict reading the source code by others or duplicating the app from one sensor to another are currently not available. The source code of all sensor apps build with this version are readable by others.
Import app from device	Importing an installed SensorApp from device into your workspace is not available.

Known issues

Workspace & building

Issue	Description	Workaround
Build watcher does not register changes	The watcher does NOT work for symlinked files it only works for directories.	If possible, include the parent directory as symlink.
Multiple build triggered	After removing a symlinked directory, the VSCode watcher still triggers the change event as if the symlink was never removed. This shouldn't have any bad side effects, except for performance (unnecessary rebuilds)	Restart VSCode
Name conflicts in project manifest are not validated	Name conflicts in the project.mf.xml are not displayed as error to the users and are not validated when building SAR or SAPK files. This can lead to unpredictable behavior.	None
Changes in app manifests are not detected and prevent re-deployment / installation	If an app has been deployed / installed on a device, we detect if changes have been made to the app. If no changes were detected, the app will no be deployed again. Currently changes won't be detected, if only the app manifest (project.mf.xml) has changed.	Delete the app from the device and try to deploy it again.

Language server

Issue	Description	Workaround
Custom path structure not loaded	Directories defined by <i>Lua.workspace.library</i> are not loaded.	A further <i>scripts</i> folder must be placed in which the Lua code must be placed.
No effect of certain <i>Lua.</i> format.* options	The old formatter was replaced by a new one including the settings options.	Use Lua.format.defaultConfig instead.

UI-Builder

Issue	Description	Workaround
Missing parameter bindings	"Parameter Bindings" work only with parameters in the workspace. Parameters from the device are not loaded.	
Unexpected behavior on shortcut	Changed keyboard shortcuts are not respected by the UI-Builder.	If changed one should add activeCustomEditorId!= 'sickag.ui-builder-plugin.HtmlEditor' to the When condition in Keyboard Shortcuts.
Unexpected behavior with edit menu	It is not recommended to use VSCode menu Edit > operations with UIBuilder as • Cut-copy-paste operates on VSCode's history and not the UIBuilder's. • Other operations should have no effect.	Use the built-in functionality of the UI-Builder.
No log output for broken MSDD builds	There is no error log in OUTPUT > SICK AppSpace Build, if your .msdd build breaks.	Open Help > Toggle Developer Tool to display UI logs.

Device connectivity

Issue	Description	Workaround				
No reachable device selected	After removing and adding the same device again, the device model configuration shows "No reachable device selected"	Restarting VSCode fixes this (Wait 5 seconds to make sure the device connectivity process is stopped)				
"Failed to activate extension: sickag. device- connectivit y"	Possible reasons: 1. The device connectivity services uses fixed ports. When this error occurs it is most likely due to a blocked port blocked. 2. VSCode has been closed during the installation of the device connectivity services. The installation might be corrupt.	If the device connectivity services fail to start, a webview should open and perform several diagnost Try to resolve the issue with the offered solutions (buttons). Possible solution (manual): 1. Check the log of the device connectivity (see output channel) The blocked ports should be listed in the log. 2. Delete the following folder: • Windows: '%APPDATA%/SICK/AppSpace/MaxwellConnect' • Linux: '~/.config/SICK/AppSpace/MaxwellConnect'		agnostics.		
Device list empty after update	Currently updates of the "Device connectivity" extension results in a loss of the device list /configuration. The device list is not automatically migrated, but you can restore it.	Migrate the configuration: 1. Identify the current and previous version of the device connectivity services. Respective ones with the highest and second highest version.		eess/colax o "mwc-		

Device / App Model

Issue	Description	Workaround
Device manifest not loaded	Device must be in the same network and accessible from the current device.	 Ensure device is in the same network Add device IP to NO_PROXY environment variable

Device console

Issue	Description	Workaround
Duplicated message in device console	Messages in the device console might be printed multiple times and therefore duplicated.	None
No output printed after (re-adding) device	The device console does not print any more messages after following these steps: 1. View device console 2. Remove device from list 3. Add device again & select it	Restart VSCode
New line and tabs are not decoded	The device console does not decode the output and print \X0A and \X09 instead of newlines or tabs.	None

Debugging

Issue	Description	Workaround
2D/3D viewer is empty	No image is displayed, even though the debugger stopped at a breakpoint with an image. Possible reasons: Color images can currently not be rendered Error during the initialization of the view	None
2D/3D viewer shapes are drawn incorrectly		None

Device file system

Issue	Description	Workaround
Create new file on device file system shows error	When creating a new file on the "Device filesystem" an error message is shown. The file is created regardless, but not shown in the UI until refresh.	Refresh the "File explorer" view after the error message appeared. EXPLORER WORKSPACE-1 App 1692185050022 Refresh Explorer
Files with special symbols in name are no longer accessible	If you create or rename a file with special non-ASCII symbols in their name, they will no longer be accessible.	None. Be cautious when choosing file names.

Supported hardware & software

This release supports the following SICK AppSpace-enabled devices:

Product family	Part number	Device type
SICK AppEngine	1613796	SICK AppEngine (x64)
InspectorP61x	1116350	V2D611P-MMSCE4
	1114809	V2D611P-MMSBE4
InspectorP62x	1110847	V2D621P-2MSFBB5

1110848 V2D621P-2MSFFBS 1110849 V2D621P-2MDFGB5 InspectorP63x 1082298 V2D631P-2MXCXB0 1082299 V2D631P-2MXSXB0 1082300 V2D632P-2MXCXB0 1082301 V2D632P-2MXSXB0 InspectorP64x 1082302 V2D642P-2MCXXA6 InspectorP65x 1082303 V2D652P-2MCXXA6 1082304 V2D654P-2MCXXA6 1082305 V2D652P-2MEWHA6 1082306 V2D654P-2MEWHA6 1084278 RFU610-10600 RFU610-10600 RFU610-10600 RFU610-10601 RFU610-10601 RFU610-10601 RFU610-10601 RFU610-10603 RFU610-10603 RFU610-10603 RFU610-10604 RFU610-10604 RFU610-10607 RFU620-10607 RFU620-1000 RFU620-10000 RFU620-100			
InspectorP63x		1110848	V2D621P-2MSFFB5
1082299 V2D631P-2MXSXB0 1082300 V2D632P-2MXCXB0 1082301 V2D632P-2MXSXB0 1082302 V2D642P-2MCXXA6 1082303 V2D652P-2MCXXA6 1082304 V2D654P-2MCXXA6 1082305 V2D652P-2MEWHA6 1082306 V2D654P-2MEWHA6 1082306 V2D654P-2MEWHA6 MRS1000P 1104278 MRS1104P-111011 RFU61x 1091102 RFU610-10600 1099890 RFU610-10601 1101394 RFU610-10605 1104441 RFU610-10614 1104443 RFU610-10603 1104444 RFU610-10604 1104445 RFU610-10604 1104446 RFU610-10610 1104447 RFU610-10607 1104448 RFU610-10607 1104449 RFU610-10609 RFU62x 1062599 RFU620-10100 1062600 RFU620-10400 1062601 RFU620-10500 1062602 RFU620-10101 1062603 RFU620-10501 1068727 RFU620-10501 1068728 RFU620-10503 1069677 RFU620-10505 1077860 RFU620-10510		1110849	V2D621P-2MDFGB5
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1062603 RFU620-10401 1062604 RFU620-10501 1068727 RFU620-10107 1068728 RFU620-10105 1069453 RFU620-10503 1069677 RFU620-10104 1070407 RFU620-10504 1077860 RFU620-10505 1077863 RFU620-10514 1083557 RFU620-10510		1062601	RFU620-10500
1062604 RFU620-10501 1068727 RFU620-10107 1068728 RFU620-10105 1069453 RFU620-10503 1069677 RFU620-10104 1070407 RFU620-10504 1077860 RFU620-10505 1077863 RFU620-10514 1083557 RFU620-10510		1062602	RFU620-10101
1068727 RFU620-10107 1068728 RFU620-10105 1069453 RFU620-10503 1069677 RFU620-10104 1070407 RFU620-10504 1077860 RFU620-10505 1077863 RFU620-10514 1083557 RFU620-10510		1062603	RFU620-10401
1068728 RFU620-10105 1069453 RFU620-10503 1069677 RFU620-10104 1070407 RFU620-10504 1077860 RFU620-10505 1077863 RFU620-10514 1083557 RFU620-10510		1062604	RFU620-10501
1069453 RFU620-10503 1069677 RFU620-10104 1070407 RFU620-10504 1077860 RFU620-10505 1077863 RFU620-10514 1083557 RFU620-10510		1068727	RFU620-10107
1069677 RFU620-10104 1070407 RFU620-10504 1077860 RFU620-10505 1077863 RFU620-10514 1083557 RFU620-10510		1068728	RFU620-10105
1070407 RFU620-10504 1077860 RFU620-10505 1077863 RFU620-10514 1083557 RFU620-10510		1069453	RFU620-10503
1077860 RFU620-10505 1077863 RFU620-10514 1083557 RFU620-10510		1069677	RFU620-10104
1077863 RFU620-10514 1083557 RFU620-10510		1070407	RFU620-10504
1083557 RFU620-10510		1077860	RFU620-10505
		1077863	RFU620-10514
1083976 RFU620-10507		1083557	RFU620-10510
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	1084997	RFU620-10111
	1086439	RFU620-10110
	1088871	RFU620-10508
	1091355	RFU620-10103
	1092037	RFU620-10112
	1094605	RFU620-10108
	1096414	RFU620-10114
	1101686	RFU620-10118
	1101700	RFU620-10102
RFU63x	1054396	RFU630-13100
	1054397	RFU630-13101
	1057943	RFU630-13105
	1058117	RFU630-04100
	1058775	RFU630-13102
	1059999	RFU630-04101
	1061498	RFU630-13107
	1067133	RFU630-13106
	1067473	RFU630-13103
	1068569	RFU630-04106
	1068726	RFU630-13104
	1070903	RFU630-13108
	1070904	RFU630-04108
	1073196	RFU630-04105
	1073376	RFU630-04102
	1073377	RFU630-04109
	1073442	RFU630-13110
	1074302	RFU630-13112
	1077861	RFU630-13113
	1077862	RFU630-13111
	1083558	RFU630-13115
	1087776	RFU630-04117
	1093152	RFU630-04104
	1095224	RFU630-13114
	1104670	RFU630-04103
RFU65x	1073556	RFU650-10100
	1076522	RFU650-10101
	1083559	RFU650-10105
	1083560	RFU650-10106
		5555 10100

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1087587	RFU650-10102
1092036	RFU650-10104
1096413	RFU650-10103
1098321	SID120
1101360	SID70
1097816	SIM1000-0P0B100
1098146	SIM1012-0P0G200
1111314	SIM1012-0P0G200S01
1098148	SIM1004-0P0G311
1080579	SIM2000-0A10A00
1081902	SIM2000-2P04G10
1092673	SIM2500-2P03G10
1097817	SIM1000-0P0B110
1078787	SIM4000-0P03G10
1090292	TIM881P-2100101
1091318	V3T11P-MR12A8
1091319	V3T12P-MR32A8
1091320	V3T13P-MR62A8
1091321	V3T12P-MR32A7
1091322	V3T11P-MR12A7
1091323	V3T13P-MR62A7
1102953	V3S140-2AAAAAA
1102954	V3S140-2AABAAB
1114319	V3S142-1AAAAAA
1114320	V3S142-1AABAAB
	1092036 1096413 1098321 1101360 1097816 1098146 1111314 1098148 1080579 1081902 1092673 1097817 1078787 1090292 1091318 1091319 1091320 1091321 1091322 1091323 1102953 1102954 1114319

Installation

Components

SICK AppSpace SDK	1.1.0
Code samples	https://gitlab.com/sick-appspace/samples
UI Builder	3.5.0, WYSIWYM and web programming tool for creating app Uls, based on DaVinci basic elements 5.6.4

System requirements

OS	Windows 10 x86_64	
	Windows 11 x86_64	
	Ubuntu 22.04 x86_64	
HDD	min 1 GB	
RAM	min 4 GB, 8 GB recommended	
Processor	1 GHz CPU	
Browser	Chrome for support of WebGL and WebSockets	
IDE	Microsoft Visual Studio Code v1.71	

Installation instructions & first steps

 $Please find installation instructions \ and \ first \ steps \ tutorials \ here: \ https://github.com/SICKAG/SICK-AppSpace-SDK-Docs$