

### **Release Notes**

Product name: AURIX<sup>™</sup> Development Studio Release number and version: V1.9.20 build 20231207-0841 Type of release: Official Release Release method: Infineon corporate website AUTOSAR specification: None Compiler support: Not applicable Processor platform: Not applicable Date: 2023-12-18 Previous release number and version: V1.9.16 build 20231116-1359

### About this document

#### Scope and purpose

This document details the release contents, all known issues in the release and the changes from the last release, together with information on tools, compiler options and support packages.

Changes implemented since the last release of this document are detailed first, followed by all changes implemented in previous versions of this release.

#### Attention: Refer to the Limitations and deviations chapter before using the software for integration.

#### Intended audience

This document is intended for anyone using the AURIX<sup>™</sup> Development Studio and the AURIX<sup>™</sup> microcontroller products from Infineon Technologies AG.

#### **Reference documents**

• None



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### **1** Release contents

### **1.1** Release overview

This release is for building software on AURIX<sup>™</sup> microcontroller products from Infineon Technologies AG.

### **1.2** Released items

The release contains the file AURIX-studio-setup\_1.9.20.exe.

Table 1Release content	
COMPONENT	DESCRIPTION
AURIX-studio-setup_1.9.20.exe	Installer for the AURIX <sup>™</sup> Development Studio development environment
	This is a self-extracting installation program which contains the following software components:
	• <b>AURIX<sup>™</sup> Development Studio V1.9.20</b> : Integrated Development Environment for AURIX <sup>™</sup>
	• AURIX <sup>™</sup> Flasher Software Tool 1.0.8.0: Flashing tool for AURIX <sup>™</sup> Devices
	• <b>DAS V8.0.5</b> : Infineon AURIX <sup>™</sup> Drivers
	• <b>iLLD 1.0.1.17.0:</b> Infineon Low Level Drivers for AURIX <sup>™</sup> TC2xx devices
	• <b>iLLD 1.0.1.17.0.1:</b> Infineon Low Level Drivers for AURIX <sup>™</sup> TC3xx devices
	OpenJDK 17: Java Runtime Environment
	• <b>TASKING<sup>®</sup> Debugger v1.1r8</b> – Debugger for AURIX <sup>™</sup> devices that can only be used for non-commercial purposes
	• <b>TASKING<sup>®</sup> Compiler v1.1r8</b> - Compiler for AURIX <sup>™</sup> devices that can only be used for non-commercial purposes
	• iSystem winIDEA 9.21.133.1
	• TASKING <sup>®</sup> PinMapper for AURIX <sup>™</sup> Development Studio v1.1r9
	SDCC SCR Compiler v4.2.2
	• GNU Make 4.2.1
	• GNU Coreutils 5.3.0
	• OneEye 2.56.0
	GCC11 with TriCore support

### 1.3 Safety

This product is a software customization. This product is developed according to project specific lean process for tool development. Safety process related documents are not in the scope of deliverables of this product and hence not produced.



### 1.4 Compatibility

This product is a standalone product for the main use-cases of producing and testing non-commercial software on AURIX<sup>™</sup> microcontroller products from Infineon Technologies AG.

The AURIX<sup>™</sup> Development Studio has been tested on Windows 10 operating system.



# 2 Tool information

Please look into the Getting Started guide for more details.

### 2.1 Supported sub-derivate

Not applicable



# 3 Summary of changes

This chapter describes the new features and fixes for issues from previous version(s).

### 3.1 Changes implemented in release V1.9.20

#### Table 2

Module	Description of changes
Base Platform	<ul> <li>Upgraded base platform to Eclipse 2023-06</li> <li>Fixed missing separator in source templates (AURIX_E2U-2969)</li> </ul>
Licenses	Removed obsolete TASKING Compiler and winIDEA EULA and license     (AURIX_E2U-3033)
Analytics	<ul> <li>Removed empty, unused personal data node from payload (AURIX_E2U- 3059)</li> </ul>
	<ul> <li>Fixed wrong analytics backend endpoint (AURIX_E2U-3023)</li> </ul>
	• Fixed bug that was causing an error popup when the Analytics backend URL could not be found in the settings (AURIX_E2U-3093)
Managed build	• Fixed missing linker flag -nocrt0 from external GCC build configuration (AURIX_E2U-3031)
	• Fixed a bug that was causing the GCC for TriCore to sporadically crash at link time (AURIX_E2U-3045)
Project Exporter	Folder winIDEAWorkspace removed from exported folders (AURIX_E2U- 3066)
New Project Wizard	Update iLLDs to latest version. (AURIX_E2U-3051)

## 3.2 Changes implemented in release V1.9.16

Table 3

Module	Description of changes
winIDEA Debugger	• Fixed a bug that caused winIDEA debugger not to start anymore due to a licensing issue (AURIX_E2U-3090)

### 3.3 Changes implemented in release V1.9.12

Module	Description of changes
Base Platform	• Fixed a bug that caused wrong code highlighting for GCC projects (AURIX_E2U-2920)
Managed build	Updated embedded GCC for TriCore toolchain (AURIX_E2U-2931)
	• Fixed a bug that caused not working dependency files for *.c/*.cpp files in the root when using TASKING toolchains (AURIX_E2U-2958)
	• Fixed a bug that caused creation of non-buildable TC3 project, when using the embedded GCC toolchain (AURIX_E2U-2927)
DAS	DAS updated to version 8.0.5



Module	Description of changes
Metadata Editor	• Fixed a bug that caused the Last Modified date not to be written in metadata if not explicitly set by the user (AURIX_E2U-2990)
Analytics	Updated analytics backend endpoint (AURIX_E2U-2988)

# 3.4 Changes implemented in release V1.9.8

Table 5	Та	ble	5
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Module	Description of changes
Base Platform	<ul> <li>Added link to "Report a Bug, Feedback, Ideas", allowing users to submit a feedback to Ease of Use team (AURIX_E2U-2465)</li> </ul>
	<ul> <li>Added a button to open the Updated Infineon template for empty source and header files with Infineon copyright (AURIX_E2U-2665) "Infineon Register Viewer" (AURIX_E2U-2685)</li> </ul>
	• Fixed an issue which was preventing Infineon Developer Community forum to be usable in all its parts and menus (AURIX_E2U-2681)
Managed build	Added embedded GCC for TriCore toolchain (AURIX_E2U-2460)
	<ul> <li>Added the possibility to set linker floating point settings via user interface (AURIX_E2U-2597)</li> </ul>
	• Fixed a bug which was causing unresolved placeholders in the build booster configuration (AURIX_E2U-2833)
SCR support	• Fixed "Calling a function without a prototype" warning (AURIX_E2U-2373)
Notifications	<ul> <li>Added the ADS Notification System, which allows to display remote information to the user via pop-ups (AURIX_E2U-2455)</li> </ul>
Analytics	Added the ADS Analytics System, which allows (with user consent) to collect     anonymous usage data from ADS (AURIX_E2U-2459)
Project Importer	• README.md file is opened automatically after importing a project, if the file exists (AURIX_E2U-2660)
ChipCoach Library	Updated ChipCoach Library to latest version

### 3.5 Changes implemented in release V1.9.4

Module	Description of changes
Base Platform	<ul> <li>Added support for Dark theme (AURIX_E2U-2515)</li> <li>Fixed names of all toolbars in "Window -&gt; Perspective -&gt; Customize Perspective -&gt; Toolbar Visibility" (AURIX_E2U-2389)</li> <li>Fixed bug that was causing some menu options to be duplicated in the C/C++ Projects view (AURIX_E2U-2591)</li> </ul>
Managed build	Aligned all build configuration and tool-chain names to a common standard (AURIX_E2U-2393)

### Summary of changes



Module	Description of changes
	• Fixed bug that was causing an internal error in the booster in case of folders which are not synchronized in the workspace (e.g. non existing folders shown as existing) (AURIX_E2U-2354)
	<ul> <li>Fixed bug that was producing an ELF file without name for a CSRM build configuration (AURIX_E2U-2396)</li> </ul>
winIDEA Debugger	Upgraded version
	<ul> <li>Fixed a bug that was preventing the winIDEA debug configuration UI to correctly save settings (AURIX_E2U-2421)</li> </ul>
Metadata Editor	<ul> <li>Encoding forced to be always UTF-8 when serializing metadata (AURIX_E2U- 2589)</li> </ul>
	• Fixed bug that was wrongly allowing the user to open the metadata editor when more than one projects were selected (AURIX_E2U-2537)
	• Fixed bug that was preventing the metadata editor to correctly close if the date was not explicitly set by the user (AURIX_E2U-2542)
Active Project	• Fixed bug that was causing text editor background color not showing according to the state of the active project (AURIX_E2U-2563)
AURIX <sup>™</sup> PinMapper	Integrated PinMapper version 1.1r9 (AURIX_E2U-2404)
AURIX™ Flasher	Integrated AURIX Flasher version 2.5.3.2 (AURIX_E2U-2471)
SDCC Compiler	<ul> <li>Integrated SDCC compiler version 4.2.2 (AURIX_E2U-2606)</li> </ul>
Quick Links	Refactored to support Dark Theme
	<ul> <li>Added display of icons in the QuickLins view (AURIX_E2U-1518)</li> </ul>
OneEye	Updated OneEye version to the latest release
ChipCoach Library	<ul> <li>Integrate ChipCoach Library version with support for external parameters (AURIX_E2U-2505)</li> </ul>

# 3.6 Changes implemented in release V1.9.0

Module	Description of changes
Base Platform	<ul> <li>Updated Eclipse version to 2022-06 and CDT to 10.7</li> <li>Aligned version name in documentation and UI</li> <li>Removed non-existent TASKING Update site from "Install New Software" function</li> </ul>
Managed build	<ul> <li>Added quick build configuration switch functions, which activates a build configuration and build the project at once</li> <li>Deprecated legacy Command Line Pattern for TASKING toolchains. The Command Line Pattern has now the standard Eclipse form, and all extra flags have been added to the Settings UI</li> <li>Added the possibility to have the object files generated by the compiler call directly for TASKING toolchains</li> <li>Fixed bug in the Build Booster that was causing cache conflicts when projects with same build configuration ID were built</li> </ul>
	Fixed bug that was preventing a post-build step to be correctly executed

### Summary of changes



Module Description of changes	
winIDEA Debugger	Upgraded version
	• Fixed bug that prevented the register view to correctly show registers values
Project Importer	Code examples selection retained after sorting and searching
	Minor UI improvements
	• Extracted folders are removed from temporary folder after a project has been imported
Documentation	• Fixed encoding of documentation pages. The issue was causing special character not to be rendered correctly in some situations
OneEye	Updated OneEye version to the latest release

# 3.7 Changes implemented in release V1.8.0

Table 8

Module	Description of changes
Base Platform	Updated AURIX <sup>™</sup> Development Studio EULA
	Updated product icons
Managed build	<ul> <li>Fixed a bug in the *.d files postprocessor, which caused dependencies not to be taken into considerations</li> </ul>
MCS Support	<ul> <li>Added support for Multi Channel Sequencer (MCS) architecture during project creation for AURIX<sup>™</sup> TC3xx</li> </ul>
SCR Support	<ul> <li>Added support for Standby Controller (SCR) architecture during project creation for AURIX<sup>™</sup> TC3xx</li> </ul>
HSM Support	<ul> <li>Added support for Hardware Security Module (HSM) architecture during project creation for AURIX<sup>™</sup> TC2xx and TC3xx</li> </ul>
ChipCoach Library	<ul> <li>Added ChipCoach Library for AURIX<sup>™</sup> devices</li> </ul>
AURIX™ Flasher	Toolbar Flash button renamed
Project Importer	• Fix bug that was showing the wrong date in the "last updated" field, if no value is present in the project metadata

### 3.8 Changes implemented in release V1.7.2

Module	Description of changes
Debugger	<ul> <li>Updated winIDEA debugger</li> <li>Added core synchronization to winIDEA. If a breakpoint causes a core to stop, all other cores will stop</li> <li>Fixed bug that prevented debugging of the PPU with the winIDEA debugger</li> <li>Fixed bug that prevented the usage of winIDEA for a project if the project is renamed</li> </ul>
Device Support	<ul> <li>Added support for AURIX<sup>™</sup> TC32x devices</li> </ul>
MCS Support	• Added external TASKING <sup>®</sup> MCS Toolchain, which allows to build MCS code using external compiler/assembler/linker.

### Summary of changes



Module	Description of changes
Build Booster	Build Booster configuration made available through user interface in project settings
	• Build Booster operation is now relative to a specific build configuration rather than the whole project, in order to allow build configuration with different source paths in the same project
Include Paths Auto- discovery	• Include paths auto-discovery operation is now relative to a specific build configuration rather than the whole project, in order to allow build configuration with different source paths in the same project
AURIX™ Profiler	Added AURIX <sup>™</sup> Profiler

# 3.9 Changes implemented in release V1.6.0

Module	Description of changes
Debugger	<ul> <li>Added winIDEA debugger as possible option for debugging</li> <li>Integrated TASKING<sup>®</sup> Debugger 1.1r8</li> <li>Fixed bug that sporadically prevented the correct core to be selected when a breakpoint is hit</li> <li>Fixed bug that prevented correctly stepping over struct or array assignment instructions</li> <li>Fixed bug that affected register view performance during debug</li> </ul>
Managed build	<ul> <li>Fixed bug that prevented the FSS view to correctly show printfs calls result</li> <li>Added the possibility to remove the "-C" option in the generated makefiles for advanced usage, by blanking the value of the "processor" option</li> <li>Project libraries build booster improved to decrease wait time before build start</li> <li>Fixed bug that prevented TASKING® Assembler flags to be correctly copied to generated makefiles</li> <li>Fixed bug that prevented library project to be correctly archived during build process</li> <li>Fixed bug that forced Linker to get called at every build, even if no changes were made to any source file</li> </ul>
New Project Wizard	• Fixed bug that prevented projects to be correctly created if remote templates repository is not reachable
DAS	Integrated DAS version 7.3.7
Project Importer	<ul> <li>Project Metadata shown also for locally imported projects</li> <li>Changed display of error message when remote repository is not reachable</li> </ul>
Project Exporter	• Fixed a bug which prevented some project files to be correctly copied in the destination folder
Compiler	Integrated TASKING <sup>®</sup> Toolchain 1.1r8
Libraries Updater	• Functionality added. It is now possible to upgrade and rollback the libraries of a project
AURIX™ Flasher	<ul> <li>Added AURIX<sup>™</sup> Flasher 2.5.3</li> </ul>



Module	Description of changes
OneEye	Updated version of supported OneEye to latest.
Platform	<ul> <li>Added link to AURIX<sup>™</sup> Development Studio Forum</li> </ul>

# 3.10 Changes implemented in release V1.5.4

Table 11

Module	Description of changes
OneEye	• Added support to OneEye. OneEye can be installed with ADS, and can be started from within ADS for the active project.
Managed build	• TASKING <sup>®</sup> Processor and Package options made visible and editable using the UI
	<ul> <li>Fixed a bug which was preventing the TASKING<sup>®</sup> Assembler flags to be correctly used during the build process</li> </ul>
	<ul> <li>Fixed bug which was preventing imported non-managed make based projects to correctly build</li> </ul>
Platform	Eclipse upgrade to version 2021-09
	Added Markdown viewer and editor
	Fixed unlinked page in the Help Documentation
Compiler	Integration of version 1.1r8 of the non-commercial TASKING <sup>®</sup> Toolchain
	• Fixed bug which was preventing the Linker to complete processing in certain situations
Project Exporter	Removed generation of .exportedSettings file. Project are now exported in standard Eclipse format
New Project Wizard	Removed iLLD set choice. All projects are now created with the full iLLD set

# 3.11 Changes implemented in release V1.5.2

Module	Description of changes
Managed build	• Added support to projects which are located in an external folder, and not in the workspace
	• Default include paths have been changed to use Eclipse variables in order to be independent from the project name
	• Fixed bug that prevented the project to be built if the project contains folders with empty characters in the name
	• Fixed bug that caused a delay in the project build even if the project sources was not changed from the last build
	<ul> <li>Fixed bug that occasionally prevented the build working directory to be deleted</li> </ul>
	• Fixed bug that prevented the file specific build settings to be opened
	• Fixed bug that prevented the built-in " <i>make</i> " program to be used, if "make" is contained also in the bin folder of an external toolchain
	• Fixed bug that occasionally prevented the correct sequence of "build" and "flash" to be executed when using the function " <i>Build Active Project</i> "

### **Release Notes**

#### Summary of changes



Module	Description of changes
	• Fixed bug that caused the building of a project to fail if any command exceeds the maximum number of characters allowed by the shell
Platform	• Added possibility to build the project, including libraries boosting and includes auto discovery, using the contextual menu "Build Project"
Project Importer	Added number of projects currently shown in the list
	<ul> <li>Removed empty projects from the AURIX<sup>™</sup> Code Vault projects list</li> </ul>
Project Exporter	• Fixed bug that prevented to import a previously exported project, if the project was exported using ADS version 1.5.0
New Project Wizard	UI improvements for screens with lower resolution
	• Fixed bug that caused a project to have a wrong folder structure, if the project is created in a non-default location

# 3.12 Changes implemented in release V1.5.0

Table 13

Module	Description of changes
Managed build	• Added support to AURIX <sup>™</sup> TC334 lite Kit
	Added possibility to create a static Library Project
	• Added g++ compiler support in External GCC Toolchain
	Added support to C++ constructors and destructors
	• Added the root of a project in the list of Compiler Include paths
Platform	<ul> <li>Added possibility to import projects from AURIX<sup>™</sup> Code Vault (only available from within IFX Network)</li> </ul>
	• Removed possibility to import AURIX <sup>™</sup> Code Examples from IFX BitBucket
Project Importer	<ul> <li>Added capability to import projects which were not previously exported using the AURIX<sup>™</sup> Development Studio export function, but which contain a *.project Eclipse file</li> </ul>
Project Exporter	Changed UI texts

# 3.13 Changes implemented in release V1.4.2

Module	Description of changes	
Managed build	<ul> <li>Added support to TC33xLP_A-Step device</li> <li>Fixed bug that caused the selected CPU setting to get lost after resetting the Toolchain Settings to their default</li> </ul>	
	<ul> <li>Fixed bug that prevented the External TASKING<sup>®</sup> Toolchain to be used with any device but the TC29xTP_B-Step and TC29TA/TX/TF_B-Step</li> </ul>	
	<ul> <li>Fixed bug that prevented a project from being built if any used iLLD folder contains *c files which are the only includers of other iLLD header files contained in different folders</li> </ul>	
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#### **Release Notes**

#### Summary of changes



Module	Description of changes
	<ul> <li>Fixed bug that caused the Floating-point custom settings to be ignored if deactivated</li> </ul>
Platform	<ul> <li>Added documentation for Compiler Include paths Auto-discovery function and creation and configuration of an external TASKING<sup>®</sup> Toolchain</li> </ul>
	• Fixed bug that would occasionally cause the UI to freeze while a project is building
	• Fixed bug in installation program, which forced a system reboot after the installation
	• Fixed bug that caused the build folder not to refresh correctly after a build, if the project was copied and pasted from another
Debugger	<ul> <li>Integration of version 1.1r7 of the non-commercial TASKING<sup>®</sup> debugger</li> </ul>
	<ul> <li>Fixed bug that prevented the Memory View to correctly display data when scrolling</li> </ul>
	<ul> <li>Fixed bug that caused the Expression View to display no data</li> </ul>
	• Fixed bug that caused sporadic crash when creating/editing expressions in the Expression View
	• Fixed bug that prevented the Expression View to correctly refresh the data of configured expressions
	<ul> <li>Fixed bug that prevented float values to be correctly displayed in Variables View</li> </ul>
	<ul> <li>Fixed bug that prevented all elements of array variables to be shown in Variables View</li> </ul>

# 3.14 Changes implemented in release V1.4.0

Table 15

Module	Description of changes
Managed build	<ul> <li>Enhanced support for external GCC toolchain</li> <li>Added auto discovery of include paths</li> </ul>
	<ul> <li>Removed percent display of build progress</li> <li>Fixed bug that prevented triggering of build enhancement if an empty source file is present in the project</li> </ul>
AURIX™ PinMapper	Added "Open AURIX PinMapper" button in the toolbar
Quick Links	Added Quick Links feature, which enables easy access to documentation     and functions
	<ul> <li>Added warning to the user if the PinMapper perspective is left without saving changes</li> </ul>

# 3.15 Changes implemented in release V1.3.2

Module	Description of changes
Managed build	• Removed use of external "sed" call for *.d dependency files post processing
	Removed percent indicator from build progress bar

### Summary of changes



Module	Description of changes
	• Fixed bug that caused the build to fail if build booster is triggered before project indexing is complete
	<ul> <li>Fixed bug that prevented "Build Active project" command to correctly trigger an incremental build</li> </ul>
PinMapper	• Fixed bug that caused the creation of a PinMapper configuration file for imported projects
Platform	Fixed icon shown in start menu
	<ul> <li>Activated excluded source files indexing and indexing of open files by default</li> </ul>
Project Importer	• Fixed bug that wrongly interpreted Doxygen "\brief" command as part of the project metadata, wrongly recognizing the metadata as available for the project

### 3.16 Changes implemented in release V1.3.0

Module	Description of changes
PinMapper	<ul> <li>Integration of version 1.1r6 of the TASKING<sup>®</sup> PinMapper for AURIX<sup>™</sup> Development Studio</li> </ul>
Platform	Eclipse base framework migrated to version 2020-06
	• Fixed bug that prevented the Eclipse indexer to correctly recognize uint*_t data types
AURIX™ Flasher	• "Build and Flash" command bound to Ctrl + Alt + F Keyboard shortcut
Project Importer	Project list sorted alphabetically
	Title column size changed to improve content visibility
New Project Wizard	<ul> <li>Infineon Low Level Driver (iLLD) updated to version 1.0.1.12</li> </ul>
	<ul> <li>Added support for AURIX<sup>™</sup> TC375 lite kit</li> </ul>

# 3.17 Changes implemented in release V1.2.4

Module	Description of changes
Debugger	<ul> <li>Integration of version 1.1r6 of the non-commercial TASKING<sup>®</sup> debugger</li> <li>Fixed bug that caused the IDE to freeze when expression are used</li> <li>Fixed bug that caused Expressions to disappear</li> <li>Fixed bug that prevented to step over struct variables assignments</li> <li>Fixed bug that prevented the debugger to work correctly with the board KIT_A2G_TC375_ARD_SB (hitex ShieldBuddy with AURIX<sup>™</sup> TC37x)</li> </ul>
New Project Wizard	<ul> <li>User Interface improvements</li> <li>Fixed bug that prevented the right version of the iLLDs to be added in new projects when the board KIT_AURIX_TC275_LITE (AURIX™ TC275 lite Kit) is selected</li> </ul>



### 3.18 Changes implemented in release V1.2.2

#### Table 19

Module	Description of changes
Debugger	Integration of version 1.1r5 of the non-commercial TASKING <sup>®</sup> debugger
	General improvement of user experience
	Added "Live Variables Mode" in Variables view
	Fixed single core/all cores pause and resume functionality
	• Fixed bug that prevented correct data visualization in Expression view
Managed Build	Added support to TC36xDP_A-Step device
	Added External TASKING <sup>®</sup> and GCC Toolchain configurations
	Added "Libraries" Linker option
New Project Wizard	User Interface improvements
	• Fixed bug that prevented the right version of the iLLDs to be added in new projects when device TC37xTX_A-Step is selected
AURIX™ Flasher	• Added "Flash current project" functionality, using AURIX™ Flasher
Platform	Added "Open AURIX Forum" button
	<ul> <li>Added new "C/C++ Projects" view with improved Copy/Paste and Project rename support</li> </ul>
DAS	DAS Version updated to 7.2.0

### 3.19 Changes implemented in release V1.2.0

Module	Description of changes
Debugger	<ul> <li>Integration of version 1.1r4 of the non-commercial TASKING<sup>®</sup> debugger</li> <li>Added support to TC3xx debugging</li> <li>Removed unsupported TASKING<sup>®</sup> import function</li> <li>Fixed a bug that lead to an error popup if the "Generic Infineon AURIX Board" node is selected in Debug view</li> </ul>
Compiler	<ul> <li>Integration of version 1.1r4 of the non-commercial TASKING<sup>®</sup> debugger</li> <li>Added support to TC3xx debugging</li> </ul>
Managed Build	<ul> <li>Added support to C++ language and toolchain options</li> <li>Added support to TC3xx devices</li> <li>Improved time required to build a project</li> <li>Changed the makefile generator in order to prevent failures in the "clean" phase, if the command is too long for the console</li> <li>The default shell program is now forced to "sh".</li> <li>Fixed some non-working linker parameter</li> <li>Fixed a bug that prevented the toolchain from recompiling new header files in the "Configuration" folder</li> <li>Eixed a bug that load to corrupted makefiles if a project is cleaned manually.</li> </ul>
	• Fixed a bug that lead to corrupted makefiles if a project is cleaned manually

### **Release Notes**

#### Summary of changes



Module	Description of changes
	Fixed built-in symbols and macros
New Project Wizard	User Interface refactored and improved
	Added support to TC3xx devices
	CMake decommissioned
	Removed obsolete files from project template
Metadata Editor	User Interface improvements
Project Importer	User Interface improvement
	• Added capability to import project from any folder and independently from their metadata
	Fixed a bug that lead to incorrect project settings import
Platform	Added version number to Splash Screen
	Added support and documentation to printf
	Removed "Processor" setting view
	• Fixed an error in the installation program, that prevented the "Uninstall" program from removing all installation files

# 3.20 Changes implemented in release V1.1.10

Module	Description of changes
Debugger	• Integration of version 1.1r3 of the non-commercial TASKING <sup>®</sup> debugger
	Fixed visualization of variables in Variables and Expressions views
	Removed Tracer view
Managed Build	Linker map file is now created in ASCII format
	All unsaved files are now automatically saved upon debug start
	• Fixed bug that prevented the linking of custom assembly files
	Fixed rename of a project, which used to break the build
New Project Wizard	User Interface refactored and improved
	• Fixed addition of include folders during project creation, when folders contain no header files
	• Fixed conflicts with already existing folders in workspace during project creation
Metadata Editor	User Interface refactored and improved
	<ul> <li>Fixed wrong behavior on Enter Key pressed for boards, keywords and documents</li> </ul>
Project Importer	User Interface refactored and improved
	Build folders are now ignored during import
	Full-text search algorithm improved
Project Exporter	Added warning in case of possible override of existing files
Platform	Changed list of supported Boards
	Added button to open IDE documentation in the toolbar

#### Summary of changes



Module	Description of changes
	C/C++ perspective is now the default perspective when IDE is started
	<ul> <li>Improved console output format</li> </ul>
	<ul> <li>Added new *.c and *.h file templates</li> </ul>
	• Terminal window is now visible by default in Debug perspective (requires new workspace)

### 3.21 Changes implemented in release V1.1.8

Table 22

Module	Description of changes
Debugger	<ul> <li>Integration of version 1.1r2 of the non-commercial TASKING<sup>®</sup> debugger</li> <li>Improved multi core synchronization during debugging</li> <li>Improved variable data transfer from the device during a debug session</li> <li>Removed "Startup Registers" configuration view</li> <li>Improved "Resume debug" button function</li> <li>Fixed "Unknown parent id" and "Cannot read source file" background errors</li> </ul>
Documentation	Added Help documentation accessible from within the IDE
Managed Build	Added compiler standard library to project includes
New Project Wizard	Fixed tooltip for iLLD selection options
Project Importer	<ul> <li>Removed support for GitHub Code Examples Repository from within the IDE</li> <li>Added new Infineon Code Examples HTTP Repository</li> <li>Implemented Last used Code Examples Repository as the default selection</li> </ul>
Platform	<ul> <li>Compiler errors and code syntax recognition improvements</li> <li>Changed default installation folder</li> <li>Number of buffered build console lines increased to 5000</li> <li>Build console output is grouped by build target</li> <li>Added Serial Terminal to available tools</li> <li>Removed unused dependencies</li> </ul>

# 3.22 Changes implemented in release V1.1.6

#### Table 23

Module	Description of changes
Platform	Updated license texts
	Added link to Getting Started as menu entry

# 3.23 Changes implemented in release V1.1.4

Module	Description of changes
Debugger	• Integration of version 1.1r1 of the non-commercial TASKING <sup>®</sup> debugger
	Removed "Instruction Simulator" from the available targets

### **Release Notes**

#### Summary of changes



Module	Description of changes		
	Fixed support with ShieldBuddy board		
Managed build	Integration of the TASKING <sup>®</sup> non-commercial compiler version 1.1r1		
New Project Wizard	Fixed case sensitivity in project name validation phase		
	Added additional supported boards		
Metadata Editor	Fixed issue with multiline keywords and document names		
	• Fixed issue with carriage return at the end of keywords and documents		
Project Importer	Complete restyling of the UI.		
	Fixed Network issues for the GitHub repository		
Platform	Updated license texts		
	Changed workspace default name		
	Added link to TASKING <sup>®</sup> website		
	Removed spaces from installation folder		
	Added missing window names		
	Fixed issue with hanging background processes started by the IDE		
	Added Help menu functions		
DAS	DAS Version updated to 7.1.9		

# 3.24 Changes implemented in release V1.1.2

#### Table 25

Module	Description of changes		
Debugger	Integration of updated version of the non-commercial TASKING <sup>®</sup> debugger		
Managed build	Changed optimization level		
	Removed unsupported platforms		
	• Fixed bug that prevented building of project located in drives whose name is not "C:"		
	Fixed editing of toolchain settings		
Metadata Editor	UI Improvements		
Project Importer	General user experience improvements		
Platform	Changed Logo/Splash Screen and naming		
	Removed unused dependencies		
	Minor cosmetic changes		
	Changed default workspace folder		
	Improved logging		
	Fixed project documentation opening		
	Removed wrong license information		

# 3.25 Changes implemented in release V1.1.0

Module	Description of changes		
Debugger	Integration of first version of the non-commercial TASKING <sup>®</sup> debugger		
Release Notes	19 of 24	Version 1.0	
		2023-12-18	

### **Release Notes**

#### Summary of changes



Module	Description of changes		
	Removed GDB support		
Managed build	Integration of the TASKING <sup>®</sup> non-commercial compiler		
	Removed GCC support		
	Added "Release" configuration		
New Project Wizard	General UI improvements		
Metadata Editor	• Attributes renamed and aligned between UI, project files and repository index file.		
Project Importer	General UI improvements		
Project Exporter	Compiler configuration is also exported		
Platform	Eclipse upgrade to version 2019-03		
DAS	DAS Version updated to 7.1.8		



# 4 Known issues

Title	Identifier	Description	
Debugger			
Core0 not resumed after breakpoint hit on another core	AURIX_E2U-1059	If a breakpoint is hit on any other core but Core 0, after a "Resume" operation all cores except Core 0 are resumed. Core 0 needs to be selected and resumed manually.	
Build process			
Leaving root folder empty after build breaks successive builds	AURIX_E2U-1416	If, after a successful build, all source files are moved from the project root folder to a subfolder, successive builds will fail because the root "subdir.mk" file is not correctly updated.	
Platform			
"Includes" virtual folder not updated when build configuration is switched	AURIX_E2U-1521	<ul> <li>The "Includes" virtual folder of the "C/C++ Projects" doesn't show the correct set of include folders for the active build configuration.</li> <li>This issue affects only projects which were created in a previous ADS session.</li> <li>The set of include folders used for building the project is correct, and not affected by this issue.</li> </ul>	
PinMapper			
Device selection when creating a PinMapper document with "External GCC Toolchain" active	AURIX_E2U-1509	When an "External GCC" build configuration is selected, manually creating a new PinMapper configuration file does not display the correct project device in the "Select device and package for the new pin mapper document" wizard step. It is necessary to select the option "Show all" and to manually search for the correct device/package.	



### 5 Limitations and deviations

This chapter describes the limitations and deviations due to software/hardware design constraints.

### 5.1 Limitations

There are no limitations towards the established usage of the project environment for the purpose of creating software running on AURIX<sup>™</sup> microcontroller products from Infineon Technologies AG.

### 5.2 Deviations

There are no deviations towards the established usage of the project environment for the purpose of creating software running on AURIX<sup>™</sup> microcontroller products from Infineon Technologies AG.

### 5.2.1 HIS-MISRA violations

Not applicable for this product



# 6 Installation

Please refer to the **Getting Started** document, which can be downloaded from <u>https://www.infineon.com/AURIXdevelopmentstudio</u>

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