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## RTA-OS SA80M/GHS

Release Note - Version 5.0.0 (12-12-2018)

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## **Safety Notice**

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This ETAS product fulfills standard quality management requirements. If requirements of specific safety standards (e.g. IEC 61508, ISO 26262) need to be fulfilled, these requirements must be explicitly defined and ordered by the customer. Before use of the product, customer must verify the compliance with specific safety standards.

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# 1 Introduction

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RTA-OS is an AUTOSAR compliant Operating System and associated tooling. This document provides release information for the RTA-OS SA80M/GHS port plug-in that customizes the RTA-OS development tools for the Uhhder SA80NFE20T with the GHS compiler. It supplements the more general information you can find in the *Release Note*.

## 1.1 Version Information

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This is Version 5.0.0 of the RTA-OS SA80M/GHS plug-in.

## 1.2 Installation

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The installation process is covered in detail in the *SA80MGHS Port Guide*.

## **2** **Open EHI Calls**

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Open issues are referred to by their call number in the ETAS Helpdesk International (EHI) system.

No EHI calls are open.

## 3 **Change History**

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### 3.1 Version 5.0.0

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#### **Additional Features**

The following features have been added to this release:

- First full release.
- Supports the SA80NFE20T CCP.
- This target only supports the use of RTA-OS Tools v5.4.0 and later.
- All example applications are now supported.
- Support for the 'Enable stack repositioning' target option.
- Support for trusted-with-protection OS Applications.
- Support for ECC1 and ECC2 tasks.
- Support for the 'ORTI Stack Fill' target option.
- Support for Timing Protection.
- Support for Memory protection.
- Trust (supervisor/user) is supported.
- MISRA 2012 compliance.

#### **Modified Features**

No features have been modified in this release.

#### **Removed Features**

No features have been removed from this release.

### 3.2 Version 1.99.0 (Preview Release)

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#### **Additional Features**

The following features have been added to this release:

- Initial Early Access Release, and no warranty is provided for use in production applications.
- BCC1 and BCC2 Task support only.
- Category 1 and 2 interrupt support.

- RTA-Trace support.
- Support for the SA80\_CCP core. The implementation is based on and partially tested on the SA80NFE20T.
- Support for the GHS 2018.1.4 compiler.

**Modified Features**

No features have been modified in this release.

**Removed Features**

No features have been removed from this release.



## **4 Fixed EHI Calls**

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Bugs that have been fixed are referred to by their call number in the ETAS Helpdesk International (EHI) system.

No EHI calls have been fixed in this release.

## 5 **Limitations**

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### 5.1 **Installer**

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There are the following limitations for the installer:

|                   |       |
|-------------------|-------|
| <b>Limitation</b> | None. |
| <b>Workaround</b> | None. |

### 5.2 **SA80MGHS DLL**

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There are the following limitations for this tool:

|                   |   |
|-------------------|---|
| <b>Limitation</b> | Interrupt API support API is not supported. |
| <b>Workaround</b> | None.                                       |

|                   |   |
|-------------------|---|
| <b>Limitation</b> | The SysTick interrupt must be Category 1. |
| <b>Workaround</b> | None.                                     |

|                   |                                   |
|-------------------|-----------------------------------|
| <b>Limitation</b> | Raw interrupts are not supported. |
| <b>Workaround</b> | None.                             |

## 6 Contacting ETAS

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### 6.1 Technical Support

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Technical support is available to all users with a valid support contract. If you do not have a valid support contract, please contact your regional sales office (see Section 6.2.2).

The best way to get technical support is by email. Any problems or questions about the use of the product should be sent to:

`rta.hotline.uk@etas.com`

If you prefer to discuss your problem with the technical support team, you call the support hotline on:

+44 (0)1904 562624.

The hotline is available during normal office hours (0900-1730 GMT/BST).

In either case, it is helpful if you can provide technical support with the following information:

- Your support contract number
- Your .xml, .arxml, .rtaos and/or .stc files
- The command line which caused the error
- The version of the ETAS tools you are using
- The version of the compiler tool chain you are using
- The error message you received (if any)
- The file Diagnostic.dmp if it was generated

### 6.2 General Enquiries

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#### 6.2.1 ETAS Global Headquarters

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Germany

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WWW: [www.etas.com](http://www.etas.com)

#### 6.2.2 ETAS Local Sales & Support Offices

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Contact details for your local sales office and local technical support team (where available) can be found on the ETAS web site:

ETAS subsidiaries [www.etas.com/en/contact.php](http://www.etas.com/en/contact.php)  
ETAS technical support [www.etas.com/en/hotlines.php](http://www.etas.com/en/hotlines.php)