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| Document information | |
| Info | Content |
| Keywords | Radar, SAF85xx, RFE FW, DfT |
| Abstract | Release notes describing package contents, instructions, open issues, fixes, and limitations. |

| Revision history | | |
| --- | --- | --- |
| Rev | Date | Description |
| 0.1 | 23-April-2021 | Release Notes for SAF85xx RFE DfT FW Release 0.1.0 |

| Glossary | | |
| --- | --- | --- |
| Abbreviations | Description |
| RFE | mmW mixed signal Radar Front-End of SAF85xx |
| A53 | ARM Cortex-A53, the Radar processing core of SAF85xx |
| RFE-M7 | ARM Cortex-M7, the core embedded in RFE of SAF85xx |
| DfT | Discrete Functional Testing |

# Introduction

This document contains the release notes for the SAF85xx RFE DfT Firmware (FW).

The SAF85xx is a NXP CMOS One Chip Radar IC integrating mixed signal radar transceiver and radar processing SoC.

This document describes the contents, open issues, changes, fixes, and limitations of DfT releases.

The SAF85xx RFE DfT FW Reference Manual is included in the release.

Instructions on how to use the SAF85xx RFE DfT FW can be found in the specific documentation (TBD).

# Release Contents

1. Release contents

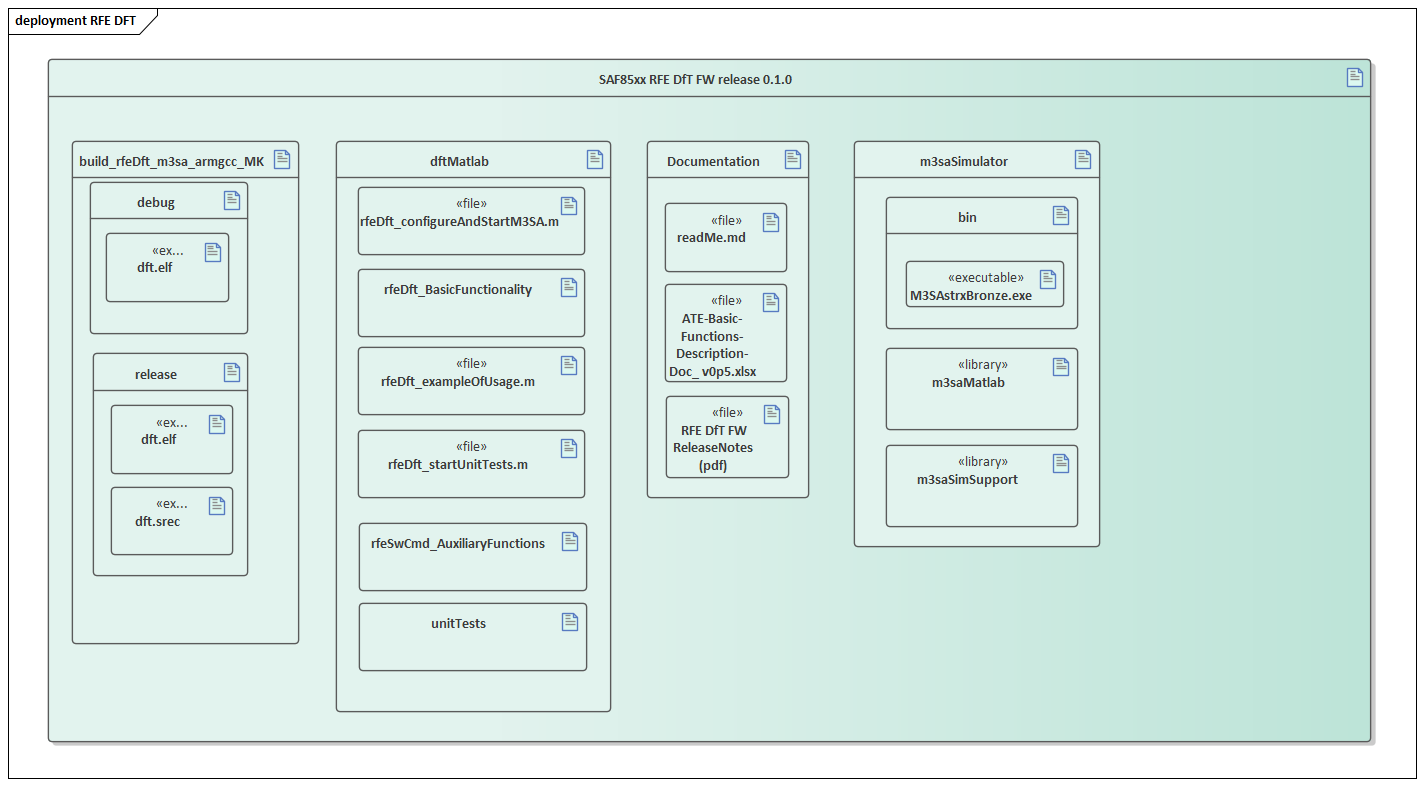
| Item | Version |
| --- | --- |
| Documentation |  |
| * SAF85xx\_RFE\_DfT\_FW\_ReleaseNotes.pdf | 0.1 |
| * ATE-Basic-Functions-Description-Doc\_ v0p5.xlsx | 0.5 |
| * readMe.md | 0.1 |
| RFE Firmware (RFE-M7) |  |
| * dft.elf debug version | **0.1.0** |
| * dft.elf release version | **0.1.0** |
| * dft.srec release version | **0.1.0** |
| Dft Matlab | 0.1.0 |
| * Matlab API | 0.1.0 |
| * RFE SW Command Client | 0.1.0 |
| * mri | 0.1.0 |
| M3SA Simulator |  |
| * M3SAStrxBronze.ex | Bronze |
| * M3SAMatlab | 0.1.0 |
| * M3SASimSupport | 0.1.0 |
|  |  |

Please refer to the corresponding user manuals to use and upgrade to the software and firmware provided by this release.

# Changes

## SAF85xx RFE Dft FW release 0.1.0

* Implementation of full basic arithmetic array functionality and related functionality for DfT application
* Implementation of Matlab interface to MESA for DfT application
* Implementation of unit-testing via Matlab and MESA for DfT application



**Figure 1 Release Content**

### Release Structure

Refer to **Figure 1 Release Content**

# Limitations

1. Limitations

| Item | Description |
| --- | --- |
| rfeSwCmdClient\_call.m | Current timeout is set to 60s, for future release it will be increased to 120s to avoid connections timeout when displaying results in MESA |
|  |  |

# Known issues

1. Known issues

| Item | Description |
| --- | --- |
| MESABronze.exe | The simulator has a known issue when using it to debug code. So the debug mode when attaching to mesa process with Eclipse will fail. |
|  |  |

# Compatibility

Table 4 gives an overview of the compatibility of the various software and firmware components. Combinations that are not listed are not supported and may not work.

1. Software and firmware compatibility

| RFE FW | RFE API | RFE Driver | RFE Configurator | Other |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| n/a | 0.1.0 | n/a |  |  |

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