

Requirements on UART Driver

Team X

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Scope of document:

This document specifies requirements on the module UART Driver.

Functional overview:

The UART driver initializes, sends character, number or string and Receive character, number or string.

Requirement specifications:

Functional Requirements:

Configuration and initialization:

- 1- [SRS_UART_3301] The UART driver shall provide a service that that initializes the UART.

Type:	Valid
Description:	The UART driver shall provide a service that initializes UART.
Rationale:	Basic functionality
Use cases	Initialize the UART
Dependencies	--
Supporting material	--

Normal operation:

- 1- [SRS_UART_3302] The UART driver shall provide a service that transmit character or number to another MCU

Type:	Valid
Description:	The UART driver shall provide a service that transmit character or number to another MCU.
Rationale:	Basic functionality
Use cases	transmit character or number to another MCU.
Dependencies	[SRS_UART_3301]
Supporting material	--

- 2- [SRS_UART_3303] The UART driver shall provide a service that send a string to another MCU.

Type:	Valid
Description:	The UART driver shall provide a service that displays a string on the UART.
Rationale:	Basic functionality
Use cases	Displays a string on the UART
Dependencies	[SRS_UART_3301]
Supporting material	--

- 3- [SRS_UART_3304] The UART driver shall provide a service that receive character, number or string from another MCU.

Type:	Valid
Description:	The UART driver shall provide a service that receive character, number or string from another MCU.
Rationale:	Basic functionality
Use cases	Receive character, number or string from another MCU.
Dependencies	[SRS_UART_3301]
Supporting material	--

- 4- [SRS_UART_3305] The UART driver shall provide a service that set call back function

Type:	Valid
Description:	The UART driver shall provide a service that set call ISR function.
Rationale:	Basic functionality
Use cases	Take the address of a function
Dependencies	[SRS_UART_3301]
Supporting material	--