

# Automation Studio transponder support

## 1 Requirements

Support for transponder readers in Automation Runtime is provided by the **AsUSB** and **DVFrame** libraries. In order to use a USB transponder device, its internal device name needs to be obtained at runtime. The internal device name is determined using the **AsUSB** library.

## 2 AsUSB library

Transponder readers can be searched for on the target system using the **UsbNodeListGet** and **UsbNodeGet** function blocks in the **AsUSB** library. The search is made using the **vendor ID** and **product ID**. The **DVFrame** library can then be used to communicate with the transponder reader using **ifName** from the output structure from the **UsbNodeGet** function block.

### Information:

Additional information and some examples in ANSI C are available in the Automation Studio help system.

## 3 DVFrame library

The **DVFrame** library can be used to communicate with the transponder reader.

The function blocks in the **DVFrame** library make it possible to send and receive data as "frames". The frame driver handles the hardware side of exchanging data without modifying the data in the frame. This makes it possible to quickly and easily implement user-specific communication.

### Information:

Additional information about the **DVFrame** library and some examples in ANSI C are available in the Automation Studio help system.

## 4 Vendor and product ID, AR version

Vendor and product ID, AR version			
Material	Vendor ID	Product ID	AR version
5E9000.29 (125 kHz)	0x067B	0x2303	≥A2.94
5E9010.29 (13.56 MHz)	0x0403	0x6001	≥L3.00
5E9020.29 (MIFARE) 5E9030.29 (MIFARE)	0x1FC9	0x0011	V3.09 - V3.10 O4.02 - V4.03 J4.04 - V4.05 ≥A4.06

Table 1: Vendor and product ID, AR version

## 5 Version information

Version	Date	Comment	Responsible
1.00	2015-10-29	First edition	Anna Sigl
1.10	2016-06-10	Updated AR versions.	Nadine Koch
1.20	2017-08-23	Updated vendor, product ID and AR version.	Nadine Koch

Table 2: Version information