

# eProsima Setup

eProsima is used for real-time communication between programs and devices. It implements a publish-subscribe pattern and serialization/deserialization for the messages. It is mandatory.

If you use one of the RTI branches, take a look at [RTI DDS Setup](#).

## General Installation

This is covered by the `install.sh` script in the software folder of the repository, in point 3.

The path to the toolchain is set there as well. BUT: **The toolchain is currently not part of the install script.**

## How to Install the Toolchain

The Toolchain is required to build for the Raspberry Pi / for the vehicles (cross-compilation).

It can be downloaded using this link <https://rwth-aachen.sciebo.de/s/aw1UGIULZGV4L07>

The Toolchain must be put in `/opt/cross-pi-gcc`.

## Installation on the NUC

The script `install_eprosima_on_nuc.bash` should include all required information and can be found in the software folder of the repository.