Roadmap

## Introduction

The Eclipse Cyclone DDS project aims at implementing the OMG DDS core standards, namely:

* DDS OMG specification,
* DDSI OMG,
* DDS Security,
* DDS-Xtypes

We ultimately aim to comply with the latest version of above OMG standards.

Cyclone DDS supports currently the following languages binding for the DCPS APIs:

* C language,
* C++11 language ( [(ISO/IEC C++ 2003 Language PSM for DDS)](https://www.omg.org/spec/DDS-PSM-Cxx/) ,

The community is welcome to add new language bindings and contribute to the implementation of other OMG specifications.

The roadmap presented in this page is indicative and subject to change.

**Short-term milestones**

**Cyclone 0.8, Dec 2020**

* C++11 APIs (GA)
* New APIs to access to serialized CDR data
* New APIs for configuring the deployment of Cyclone DDS based application
* Multi Network interface cards support (Consolidation)
* Content filtering support for C++
* IDL compiler front-end & back end support of the Xtypes annotations
* Topic and data type discovery

**Cyclone 0.9, March 2021**

* Integration of Durability Service for Transient and Persistent data
* Shared memory transport support
* Python APIs (GA)
* Internet scale deployment support
* Xtypes APIs

**Midterm milestones,**

**Cyclone 1.0 June 2021**

* Static discovery
* Static mem allocation
* Writer side filtering support
* Content Querying APIs

**Long-term milestones**

* Network Mobility support
* C# language binding support [DDS C# API](https://www.omg.org/techprocess/meetings/schedule/DDS_C_Sharp.html) –
* Java language binding support [(Java 5 Language PSM for DDS)](https://www.omg.org/spec/DDS-Java/)
* Time sensitive Networking support [DDS-TSN](https://www.omg.org/techprocess/meetings/schedule/DDS-TSN_RFP.html)
* Rust language binding support
* Certifiable DDS
* Face 3 support
* Network Scheduling and Federated architecture support