

# Internal communication interface standards

Researchlab Autonomous Shipping (RAS) Delft

August 29, 2022

ADD LOGO HERE

Date	Name	Description
2022-08-29	Bart Boogmans	Creation

Table 1: Revision history of this document

Note: This is an early file version. Interfaces described in this document are prone to change.

## 1 Namespaces

The following identifiers are used for our vessels:

Model	Description	Identifier
TitoNeri	Light-blue Tito Neri	RAS.TN_LB
TitoNeri	Dark-blue Tito Neri	RAS.TN_DB
TitoNeri	Red Tito Neri	RAS.TN_RE
TitoNeri	Yellow Tito Neri	RAS.TN_YE
TitoNeri	Purple Tito Neri	RAS.TN_PU
TitoNeri	Green Tito Neri	RAS.TN_GR
TitoNeri	Orange Tito Neri	RAS.TN_OR
GreySeabax	The Grey-seabax	RAS.GS
Delfia-1*	Delfia 1	RAS.DF_1
Delfia-1*	Delfia 2	RAS.DF_2
Delfia-1*	Delfia 3	RAS.DF_3
Delfia-1*	Delfia 4	RAS.DF_4
Delfia-1*	Delfia 5	RAS.DF_5

## 2 ROS topics & message formats

For all topics, describe:

- topic names

- messagetypes
- meaning of parameters (e.g. if float32multiArray which elements mean what?)
- default units
- frame of reference
- notes
- standard variations: (e.g. pose as 3 or 6 DOF.) and how to distinct them, and when we generally use which one.

### **3 IP reservation**

explain local network and vpn server protocols. explain how to connect to both.