

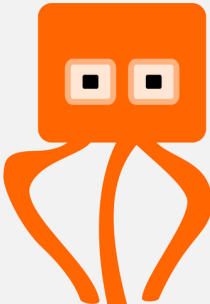
CONFIGURATION TOOL FOR THE MUXEN NETWORK

RAKEN

The whole installation described in one unified configuration tool, then written into the devices that have to run it.

Raken is served by the Brain and opened in a browser on the boat's own network, with nothing to install on the laptop that reaches it. A technician scans the network, adopts the devices, names every channel, writes the multiplexing rules and draws the synoptic views, then deploys.

What is deployed is held by the devices, not by the tool: the boat goes on switching, measuring and protecting itself with no browser open and no laptop aboard.



KEY SPECIFICATIONS

Runs on	Any current browser, on the boat's network
Reached at	Web interface on port 8080
Distribution	Debian package, installed on the Brain
Device protocol	UDS over CAN
Live boat data	MQTT over WebSocket
Project storage	On the Brain's internal storage Can be backed up on demand
Interface languages	English, French, Portuguese
Handbook	Installed on the Brain
Licence	Proprietary — MUXEN SAS

MUXEN and the MUXEN logo are trademarks of MUXEN SAS. Raken is proprietary software of MUXEN SAS.

ON THE BOAT

WHAT IT DOES

One tool covers the whole of commissioning: finding the equipment, configuring it, updating it, and describing how the boat behaves, how it is shown and in which languages.

> PROJECT MANAGEMENT

A boat is described once, as a **project**: what is installed, what each channel is called, how it all behaves. The project is created, opened and kept in the Brain, and a copy comes out on demand as a **single file**.

> THE BOAT ON A SCREEN

A **canvas editor** lets you draw the **synoptic views** the crew touches: the layout, the icons, the live values and the states that change them. What is drawn here is exactly what the screens show once deployed.

> IT FINDS WHAT IS THERE

Raken **scans the CAN network** and lists what answers. A device is adopted into the project, named and configured from its own screen — MUXEN devices directly, third-party equipment through the **gateways** that translate it.

> COMMISSIONING

For series-built boats, an **options manager** adapts the interface during commissioning: the same project is fitted to **each hull**, and every screen includes only the options that boat was actually built with.

> FIRMWARE UPDATE

Every device **reports the version** it runs, and the one it should run is installed from the same screen. An image a board cannot take is **never offered**, so an update is only ever applied where it is safe.

> CALIBRATION

Sensors that measure a level or a quantity are **calibrated** from Raken: a **tank sender** is matched to its real empty and full, so the value shown on the screens is accurate.

> RULES, NOT WIRING

A button controlling a load is a **multiplexing rule**, written graphically and pushed into the devices themselves. **Assisted templates** cover what a boat does over and over, and the result is drawn back as a diagram.

> TRANSLATION

Names that exist **only on this boat** — zones, circuits, tanks, keypad legends, synoptic labels — are entered again in each **additional language**. A screen shows the primary one wherever a translation is missing.

A HANDBOOK COMES WITH IT

Raken includes its own handbook, installed on the Brain and opened from the tool itself, so the procedure is at hand aboard with no internet connection. Tell us what your installation has to do.

Contact us by email: contact@muxen.fr