



SMARTER.YACHTS NODE V2

Configuration Reference Manual

Firmware 2.3.0 · Build 01684

Field-by-field settings, allowed values and defaults

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<https://smarter.yachts/manuals/configuration>

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NODE V2 DOCUMENTATION

Configuration Reference Manual

Field descriptions sourced from the Node V2 firmware configuration help.

Introduction

This configuration reference is valid for Smarter.Yachts Node V2 firmware version **2.3.0**, build **01684**.

This reference documents the Node V2 `config.txt` settings as described in the firmware Config Help. The bold field name matches the Config Editor GUI; the smaller code label shows the internal configuration variable. Each setting is stored as `KEY=VALUE`. Mode-specific settings apply only to the selected operation mode. Examples are illustrative; the Node V2 Config Editor validates accepted values and ranges. The Default column shows values in the firmware-generated configuration template; these can differ from runtime initialization and invalid-value fallbacks. Such fallbacks are stated separately. Editor-only controls are marked explicitly. Allowed values include the exact Config Editor choices and firmware constraints. Differences between editor choices and configuration-file validation are stated explicitly. Text-length checks in the firmware count UTF-8 bytes. For enumerated fields, the permitted stored values are paired with the exact labels shown in the Config Editor.

Use the navigation links to jump to a section. Choose **Download PDF** for a ready-to-print copy with the Smarter.Yachts logo, publication date, and page numbers on every page. Choose **Print** to open the PDF in your browser, then use the PDF viewer's print control.

General & UI

Configure the Node identity, display appearance, and general operating behavior. These settings determine how Node V2 is identified in the app and how routine system functions, such as scheduled reboots, behave.

App Icon

Type: Enum

APPICON

Selects the icon displayed for this Node in the Smarter.Yachts App. Use an available icon resource that clearly identifies the controlled equipment. The editor offers the listed resources. The firmware validates the stored resource name as 1–48 bytes and truncates longer names; it does not restrict APPICON to this dropdown domain.

Example

generator.png

Default

_default

Allowed values / range

_default — Standard	blackwater.png — Blackwater
desalator.png — Desalator / Watermaker	divecompressor.png — Dive Compressor
gangway.png — Gangway	gangway-2.png — Gangway 2
furler.png — Furler	furler-2.png — Furler 2
generator.png — Generator	generatorfp.png — Generator - Fisher Panda
generatoroc.png — Generator - Cummins Onan	hydraulicvalve.png — Hydraulic Valve
motorizedpump.png — Pumps	tenderlift.png — Tenderlift
windlass.png — Windlass	windlassyacht.png — Windlass Yacht
switches.png — Switching classic	switcheselectronics.png — Switching Electronics
switchesplotter.png — Switching Plotter	switchesmodern.png — Switching modern
switchesoutdoor.png — Switching Outdoor	switchesspreader.png — Switching Spreader
smarteryachts.png — Smarter Yachts	SmarterYachts_1024x1024.png — Smarter Yachts 1024
customlogo1.png — Custom 1	customlogo2.png — Custom 2
customlogo3.png — Custom 3	customlogo4.png — Custom 4
splash.png — Splash	splashESP32.jpg — Splash ESP32
ico180.png — Icon 180	ico180_maskable.png — Icon 180 Maskable
ico192.png — Icon 192	ico192_maskable.png — Icon 192 Maskable
ico256.png — Icon 256	ico256_maskable.png — Icon 256 Maskable
ico320.png — Icon 320	ico512.png — Icon 512
ico512_maskable.png — Icon 512 Maskable	favicon.ico — Favicon
favicon_16x16.png — Favicon 16x16	favicon_32x32.png — Favicon 32x32
favicon_48x48.png — Favicon 48x48	favicon_64x64.png — Favicon 64x64

Periodic reboot (periodicity in days, every day)

Type: Enum

AUTOREBOOT

Automatic reboot interval in hours. When the configured interval has elapsed, Node V2 checks whether restarting is safe. Any energized relay blocks an automatic restart, including a Maintained (MA) switch that is ON. The reboot remains postponed for as long as a blocker is active, without a maximum deferral time. SWxSTARTUPACTION settings such as ON or LAST do not override this protection. Active directional commands, timers, locally controlled generator operation, SD formatting, file uploads, repository downloads and direct OTA updates also block automatic restarts. This protection does not prevent a manual reset; after a restart, relays are initially OFF and supported switches follow their configured startup action. Editor/firmware discrepancy: the editor stores 0 for Never, but the firmware domain accepts -1 instead. A stored 0 falls back to 168 hours. Other listed values are accepted by both.

Example

24

Default

168

Allowed values / range

0 — Never

48 — Every 2nd day

168 — Every week

24 — Every day

120 — Every 5th day

Log Debug Information

Type: Boolean

DEBUG

Enables additional diagnostic messages in the system log to help investigate faults. Leave disabled during normal operation unless troubleshooting is required. On an invalid value, the firmware falls back to off.

Example

off

Default

on

Allowed values / range

on / off

Default Color Scheme

Type: Enum

LAYOUT

Selects the default visual theme of the Node V2 web interface. Individual app appearance settings may override this choice.

Example

C

Default

C

Allowed values / range

A — Modern

C — Ocean (Default)

B — Night

D — Carbon

LOGO

Type: Enum

LOGO

Specifies the logo resource displayed by the Node interface when Show Logo is enabled. Use a supported resource name.

Example

_default

Default

_default

Allowed values / range

_default — Standard

desalator.png — Desalator / Watermaker

gangway.png — Gangway

furler.png — Furler

generator.png — Generator

generatoroc.png — Generator - Cummins Onan

motorizedpump.png — Pumps

windlass.png — Windlass

switches.png — Switching classic

switchesplotter.png — Switching Plotter

switchesoutdoor.png — Switching Outdoor

smarteryachts.png — Smarter Yachts

customlogo1.png — Custom 1

customlogo3.png — Custom 3

splash.png — Splash

ico180.png — Icon 180

ico192.png — Icon 192

ico256.png — Icon 256

ico320.png — Icon 320

ico512_maskable.png — Icon 512 Maskable

favicon_16x16.png — Favicon 16x16

favicon_48x48.png — Favicon 48x48

blackwater.png — Blackwater

divecompressor.png — Dive Compressor

gangway-2.png — Gangway 2

furler-2.png — Furler 2

generatorfp.png — Generator - Fisher Panda

hydraulicvalve.png — Hydraulic Valve

tenderlift.png — Tenderlift

windlassyacht.png — Windlass Yacht

switcheselectronics.png — Switching Electronics

switchesmodern.png — Switching modern

switchesspreader.png — Switching Spreader

SmarterYachts_1024x1024.png — Smarter Yachts 1024

customlogo2.png — Custom 2

customlogo4.png — Custom 4

splashESP32.jpg — Splash ESP32

ico180_maskable.png — Icon 180 Maskable

ico192_maskable.png — Icon 192 Maskable

ico256_maskable.png — Icon 256 Maskable

ico512.png — Icon 512

favicon.ico — Favicon

favicon_32x32.png — Favicon 32x32

favicon_64x64.png — Favicon 64x64

Show Maintenance Log in Hamburger Menu

Type: Boolean

MAINTENANCEMODE

Displays the Maintenance Log in the Node V2 menu when enabled. Use the log to record inspections, oil checks, servicing, and other maintenance activities for this device.

Example

on

Default

on

Allowed values / range

on / off

Node Name

Type: Text

NODENAME

Friendly name used to identify this Node V2 in the Smarter.Yachts App and on device lists. Choose a short, descriptive name such as Generator or Windlass.

Example

Generator

Default

Allowed values / range

0–48 characters (firmware length limit)

Operation Mode (Device Type)

Type: Enum

OPMODE

Selects the function controlled by this Node V2: Gangway (GW), Windlass (WL), Furler (FU), Tenderlift (TL), Dive Compressor (DC), Hydraulic Valves (HV), Switching (SW), or Generator (GE). The selected mode determines which controls and mode-specific settings are available. On an invalid value, the firmware falls back to SW.

Example

GE

Default

GW

Allowed values / range

DC — Dive Compressor

GW — Gangway

HV — Hydraulic Valve / Pump

TL — Tenderlift

FU — Furler

GE — Generator

SW — Switching

WL — Windlass

Lock Screen

Type: Enum

SCREENLOCK

Time in seconds before the Node V2 interface locks automatically after inactivity. Set to -1 to disable automatic locking.

Example

-1

Default

-1

Allowed values / range

-1 — Never

20 — 20 Seconds

40 — 40 Seconds

60 — 60 Seconds

80 — 80 Seconds

10 — 10 Seconds

30 — 30 Seconds

50 — 50 Seconds

70 — 70 Seconds

90 — 90 Seconds

Show in App Menu

Type: Boolean

SHOWINAPPMENU

Controls whether this Node appears as a direct entry in the Smarter.Yachts App navigation menu. Disable it to hide the shortcut without disabling the Node itself.

Example

on

Default

on

Allowed values / range

on / off

Show Logo

Type: Boolean

SHOWLOGO

Displays the configured logo in the Node interface when enabled. Disable to simplify the screen layout. On an invalid value, the firmware falls back to off.

Example

on

Default

on

Allowed values / range

on / off

Show Slogan

Type: Boolean

SHOWSLOGAN

Displays the configured slogan text in the interface when enabled. The slogan itself is set in the Slogan field. On an invalid value, the firmware falls back to off.

Example

on

Default

on

Allowed values / range

on / off

Slogan (If empty, System defaults apply)

Type: Text

SLOGAN

Defines optional text displayed as the Node slogan. When left empty, the firmware may use its built-in default.

Example

Fair Winds

Default**Allowed values / range**

0–50 characters (firmware length limit)

Configuration Schema Version

Type: Integer

CONFIGVERSION

Internal configuration schema marker, not the firmware version. Leave it at the value generated by the firmware. Missing or invalid values are treated as legacy schema 0.

Example

1

Default

1

Allowed values / range

0–65535 (whole numbers); not a Config Editor control

Motion & Interlocks

Define how motorized equipment responds to commands and how opposing movements are protected. Review these settings carefully before operating gangways, lifts, furlers, or other moving equipment.

Direction change delay (seconds)

Type: Integer

DIRECTIONCHANGEDELAY

Minimum waiting period before the motor may change to the opposite direction. This protects the drive and relays from immediate direction reversals. Verify the unit used by the firmware before changing this value.

Example

1000

Default

1

Allowed values / range

1–60 (whole numbers)

Reverse Up / Down (R1 / R2)

Type: Boolean

DIRECTIONREVERSE

Swaps the UP and DOWN command assignment for supported motion controls. Check actual equipment movement after changing this setting.

Example

off

Default

off

Allowed values / range

on / off

Reverse In / Out (R3 / R4)

Type: Boolean

GWINOUTREVERSE

Swaps the IN and OUT command assignment for Gangway control. Test both directions safely after making changes.

Example

off

Default

off

Allowed values / range

on / off

Max command time while key is pressed (seconds)

Type: Integer

MAXSEND

Maximum duration for a continuously held movement command. Limits how long the output can remain active from a single sustained command. Verify the unit used by the firmware before changing this value. On an invalid value, the firmware falls back to 10.

Example

20000

Default

20

Allowed values / range

1–3600 (whole numbers)

WiFi & Network

Configure the wireless connection and local network identity of Node V2. Choose whether the device joins an existing WiFi network or provides its own access point, and verify connectivity before deploying.

Gateway

Type: Text

GATEWAYIP

Sets the network router/gateway address used when a static IP configuration is selected. It must be reachable on the configured subnet.

Example

192.168.1.1

Default

192.168.4.1

Allowed values / range

IPv4 dotted decimal: four octets, each 0–255; required by the editor for static addressing

Hostname

Type: Text

HOSTNAME

Defines the network hostname used to identify the Node, typically reachable as hostname.local on networks supporting mDNS. Enter the name without the .local suffix. The editor permits an empty value; the firmware logs a minimum-length warning but retains it. Firmware truncates hostnames beyond 63 bytes.

Example

node

Default

sy

Allowed values / range

Hostname labels: 1–63 letters, digits, or hyphens; no leading or trailing label hyphen or spaces. Editor maximum: 253 characters; firmware maximum: 63 bytes.

IP Address

Type: Integer

IPADDRESS

Specifies the fixed IP address assigned to Node V2 when IP Mode is set to static. Choose an unused address on the yacht network.

Example

192.168.1.20

Default

192.168.4.1

Allowed values / range

IPv4 dotted decimal: four octets, each 0–255; required by the editor for static addressing

IP Mode

Type: Enum

IPMODE

Controls whether the Node receives its IP settings automatically (dynamic/DHCP) or uses the manually configured static address, gateway, and subnet. Dynamic is unavailable in Access Point mode; the editor selects Static.

Example

D

Default

D

Allowed values / range

D — Dynamic

S — Static

Password

Type: Text

PASSWORD

Password for the Wi-Fi network selected in SSID. It is used for station-mode connection and should be kept confidential.

Example

Default

smarter1

Allowed values / range

Empty for an open network (editor warning), or 8–63 printable ASCII characters. Firmware warns on fewer than 8 characters but retains the value.

SSID

Type: Text

SSID

Name of the Wi-Fi network to which Node V2 connects when operating as a station (STA). Enter the network name exactly, including capitalization.

Example

YACHT-WIFI

Default

SY

Allowed values / range

1–32 UTF-8 bytes; no control characters

Subnet

Type: Text

SUBNETMASK

Sets the subnet mask for a static network configuration. It must match the addressing scheme of the connected Wi-Fi network.

Example

255.255.255.0

Default

255.255.255.0

Allowed values / range

IPv4 subnet mask with contiguous leading 1 bits followed by 0 bits; all-zero mask rejected by the editor

WiFi Mode

Type: Enum

WIFIMODE

Selects the Wi-Fi operating mode. STA connects Node V2 to an existing Wi-Fi network; AP lets Node V2 provide its own access point for direct setup and access. In Access Point mode, the Config Editor disables Dynamic IP mode and selects Static.

Example

STA

Default

AP

Allowed values / range

AP — Access Point

STA — Station (Client)

Remote & Internet

Manage internet-dependent features and remote connectivity. These settings affect how the Node communicates beyond the local network and should be configured according to the vessel's connectivity and security requirements.

Internet Access

Type: Boolean

INTERNETENABLED

Allows the Node to use Internet-dependent functions when connectivity is available. Certain explicitly requested operations may establish temporary access independently.

Example

off

Default

off

Allowed values / range

on / off

Remote Management

Type: Boolean

REMOTE

Enables communication with the configured remote service when supported and permitted. Requires suitable network connectivity and service configuration. The editor requires Internet Access to be enabled when Remote Management is enabled.

Example

off

Default

off

Allowed values / range

on / off

Remote Poll Interval

Type: Integer

REMOTEPOLLINT

Defines how frequently the Node checks the remote service, in seconds. Shorter intervals generate more network traffic.

Example

300

Default

300

Allowed values / range

120–3600 seconds (whole numbers)

Repository Server URL

Type: Text

REPOURL

Specifies the server URL used to retrieve firmware or other published resources. Change only when using an approved alternative repository.

Example

<https://repo.smarter.yachts>

Default

<https://prod.smarter.yachts>

Allowed values / range

HTTP or HTTPS host-only URL: <http://hostname> or <https://hostname> (IPv4 also accepted). No path or trailing slash, port, query string, fragment, or credentials. The Config Editor requires dotted hostnames with 1–63 letters, digits, or hyphens per label, no leading or trailing label hyphen, and a maximum hostname length of 253 characters. Use a lowercase scheme.

Remote Server URL

Type: Text

REMOTEURL

Remote management endpoint. The editor checks the URL when Remote Management is enabled. Invalid format disables REMOTE when firmware loads the configuration; syntax validation does not test reachability.

Example

`https://prod.smarter.yachts`

Default

`https://prod.smarter.yachts`

Allowed values / range

HTTP or HTTPS host-only URL: `http://hostname` or `https://hostname` (IPv4 also accepted). No path or trailing slash, port, query string, fragment, or credentials. The editor requires a dotted hostname, labels of 1–63 letters, digits or hyphens, no leading or trailing label hyphen, and a maximum hostname length of 253 characters. Use a lowercase scheme.

Authentication & Access

Control access to the Node configuration and protected functions. Set appropriate credentials and access rules to prevent unauthorized changes while keeping legitimate maintenance access available.

Login Expiry (days)

Type: Integer

ADMIN_AUTH_EXPIRY_DAYS

Number of days for which a successful Admin authentication remains valid before the user must authenticate again. On an invalid value, the firmware falls back to 10.

Example

`30`

Default

`1`

Allowed values / range

`1–360 (whole numbers)`

Auth Token

Type: Text

ADMIN_AUTH_TOKEN

Authentication token generated for the Admin role. Treat it as a secret credential; it is not a descriptive label or a value to share publicly.

Example

`generated`

Default

`oP3kvjH4hf`

Allowed values / range

`6–32 characters (firmware length limit)`

Passcode

Type: Text

ADMIN_PASSCODE

Passcode used to authenticate users with the Admin role. Set a suitable secret and avoid reusing credentials between roles.

Example

Default

dhZgHjX3kd

Allowed values / range

4–16 characters (firmware length limit)

Admin requires authentication

Type: Boolean

ADMIN_REQUIRES_AUTH

When enabled, users must authenticate before accessing functions protected by the Admin role. Disabling it removes that role-specific login requirement. The editor prevents disabling Admin authentication while Guest or Crew authentication is enabled.

Example

on

Default

off

Allowed values / range

on / off

Login Expiry (days)

Type: Integer

CREW_AUTH_EXPIRY_DAYS

Number of days for which a successful Crew authentication remains valid before the user must authenticate again. On an invalid value, the firmware falls back to 10.

Example

30

Default

30

Allowed values / range

1–360 (whole numbers)

Auth Token

Type: Text

CREW_AUTH_TOKEN

Authentication token generated for the Crew role. Treat it as a secret credential; it is not a descriptive label or a value to share publicly.

Example
generated

Default
U3HHgrT6kc

Allowed values / range

6–32 characters (firmware length limit)

Passcode

Type: Text

CREW_PASSCODE

Passcode used to authenticate users with the Crew role. Set a suitable secret and avoid reusing credentials between roles.

Example

Default
pH16ZZdmsw

Allowed values / range

4–16 characters (firmware length limit)

Crew requires authentication

Type: Boolean

CREW_REQUIRES_AUTH

When enabled, users must authenticate before accessing functions protected by the Crew role. Disabling it removes that role-specific login requirement. The editor requires Admin authentication to be enabled before Crew authentication can be enabled.

Example
on

Default
off

Allowed values / range

on / off

Login Expiry (days)

Type: Integer

GUEST_AUTH_EXPIRY_DAYS

Number of days for which a successful Guest authentication remains valid before the user must authenticate again. On an invalid value, the firmware falls back to 10.

Example

7

Default

7

Allowed values / range

1–360 (whole numbers)

Auth Token

Type: Text

GUEST_AUTH_TOKEN

Authentication token generated for the Guest role. Treat it as a secret credential; it is not a descriptive label or a value to share publicly.

Example

generated

Default

oPK1dj3d0d

Allowed values / range

6–32 characters (firmware length limit)

Passcode

Type: Text

GUEST_PASSCODE

Passcode used to authenticate users with the Guest role. Set a suitable secret and avoid reusing credentials between roles.

Example

Default

zeGwGr72Jb

Allowed values / range

4–16 characters (firmware length limit)

Guest requires authentication

Type: Boolean

GUEST_REQUIRES_AUTH

When enabled, users must authenticate before accessing functions protected by the Guest role. Disabling it removes that role-specific login requirement. The editor requires both Crew and Admin authentication to be enabled before Guest authentication can be enabled.

Example

on

Default

off

Allowed values / range

on / off

Trust token (Multi / Remote access)

Type: Text

TRUSTTOKEN

Shared secret used to authenticate trusted connections between Nodes or API clients. Keep it private and configure matching credentials on connected devices.

Example

generated

Default

1fKef2IoP1

Allowed values / range

5–32 characters: A–Z, a–z, 0–9, - _ . ~ ! \$ % +

System Health

Configure system monitoring, diagnostics, and reliability-related behavior. Use these settings to support stable operation and troubleshooting without interrupting active equipment.

Internet Health Check Interval (seconds, 120–1200, 600)

Type: Integer

HEALTHCHECKINT

Time between general system health checks, in seconds. The health monitor uses these checks to detect conditions requiring recovery.

Example

600

Default

600

Allowed values / range

120–1200 (whole numbers)

Network Health Check Interval (seconds, 60–600, 60)

Type: Integer

HEALTHCHECKWIFIINT

Time between checks of Wi-Fi and web-server availability, in seconds. Used to identify network-service failures.

Example

60

Default

60

Allowed values / range

60–600 (whole numbers)

Web Server failures before restart (2–10, 3)

Type: Integer

HEALTHWEBSERVERFAILURES

Number of consecutive failed web-server checks tolerated before recovery or restart is initiated. Larger values allow more transient failures.

Example

3

Default

3

Allowed values / range

2–10 (whole numbers)

Recover from Fallback WiFi after (minutes, 15–300, 30)

Type: Integer

HEALTHWIFIFROMFALLBACK

Delay in minutes before attempting to recover the preferred Wi-Fi connection after entering fallback access-point mode.

Example

30

Default

30

Allowed values / range

15–300 (whole numbers)

Switch to Fallback WiFi after (minutes, 5–300, 10)

Type: Integer

HEALTHWIFITOFALLBACK

Delay in minutes before switching to fallback Wi-Fi operation when the preferred network cannot be reached.

Example

10

Default

10

Allowed values / range

5–300 (whole numbers)

Multi Device

Connect and identify multiple Smarter.Yachts Node V2 devices within one installation. Configure host and device labels so each Node can be distinguished and addressed correctly in a coordinated setup.

Host Label

Type: Text

HOSTTXT

Friendly name displayed for the local or primary Node in a multi-device setup. Choose a label that distinguishes it from connected slave devices.

Example

Gangway

Default

Gangway

Allowed values / range

1–16 characters (firmware length limit)

Enable Multi

Type: Boolean

MULTI

Enables Multi Device mode, allowing one Node interface to provide access to additional configured Nodes. Configure each slave address and trust token separately.

Example

off

Default

off

Allowed values / range

on / off

Slave 1 enabled

Type: Boolean

SLAVE1

Enables slave Node 1 in Multi Device mode. Its address and trust token must also be configured for communication.

Example

on

Default

off

Allowed values / range

on / off

Trust-Token

Type: Text

SLAVE1TTO

Trust token used by the primary Node to authenticate with slave Node 1. It must match the token configured on that device.

Example

generated

Default

1fKef2IoP1

Allowed values / range

5–32 characters: A–Z, a–z, 0–9, - _ . ~ ! \$ % +; required only when Multi Device Mode and this slave are enabled

Label

Type: Text

SLAVE1TXT

Friendly label for slave Node 1 shown in multi-device navigation. Use the equipment name to make the destination easy to recognize.

Example

Windlass

Default

Diving

Allowed values / range

1–16 characters (firmware length limit)

URL

Type: Text

SLAVE1URL

HTTP URL used to contact slave Node 1. Format validation applies in the Config Editor when Multi Device Mode and this slave are enabled. An invalid URL disables this slave when the firmware loads the configuration. The destination must also be reachable from the primary Node; URL-format validation does not test connectivity.

Example

`http://windlass.local`

Default

`http://192.168.4.2`

Allowed values / range

HTTP host-only URL: `http://hostname` or `http://IPv4`. HTTPS is not accepted. No path or trailing slash, port, query string, fragment, or credentials. Hostnames use letters, digits, hyphens, and dots; firmware rejects consecutive dots and a leading or trailing dot or hyphen. Use a lowercase `http://` scheme.

Slave 2 enabled

Type: Boolean

SLAVE2

Enables slave Node 2 in Multi Device mode. Its address and trust token must also be configured for communication.

Example

`on`

Default

`off`

Allowed values / range

`on / off`

Trust-Token

Type: Text

SLAVE2TTO

Trust token used by the primary Node to authenticate with slave Node 2. It must match the token configured on that device.

Example

`generated`

Default

`2fKef2IoP2`

Allowed values / range

5–32 characters: A–Z, a–z, 0–9, - _ . ~ ! \$ % +; required only when Multi Device Mode and this slave are enabled

Label

Type: Text

SLAVE2TXT

Friendly label for slave Node 2 shown in multi-device navigation. Use the equipment name to make the destination easy to recognize.

Example

Windlass

Default

Tenderlift

Allowed values / range

1–16 characters (firmware length limit)

URL

Type: Text

SLAVE2URL

HTTP URL used to contact slave Node 2. Format validation applies in the Config Editor when Multi Device Mode and this slave are enabled. An invalid URL disables this slave when the firmware loads the configuration. The destination must also be reachable from the primary Node; URL-format validation does not test connectivity.

Example

http://windlass.local

Default

http://192.168.4.3

Allowed values / range

HTTP host-only URL: http://hostname or http://IPv4. HTTPS is not accepted. No path or trailing slash, port, query string, fragment, or credentials. Hostnames use letters, digits, hyphens, and dots; firmware rejects consecutive dots and a leading or trailing dot or hyphen. Use a lowercase http:// scheme.

Slave 3 enabled

Type: Boolean

SLAVE3

Enables slave Node 3 in Multi Device mode. Its address and trust token must also be configured for communication.

Example

on

Default

off

Allowed values / range

on / off

Trust-Token

Type: Text

SLAVE3TTO

Trust token used by the primary Node to authenticate with slave Node 3. It must match the token configured on that device.

Example
generated

Default
3fKef2IoP3

Allowed values / range

5–32 characters: A–Z, a–z, 0–9, - _ . ~ ! \$ % +; required only when Multi Device Mode and this slave are enabled

Label

Type: Text

SLAVE3TXT

Friendly label for slave Node 3 shown in multi-device navigation. Use the equipment name to make the destination easy to recognize.

Example
Windlass

Default
Windlass

Allowed values / range

1–16 characters (firmware length limit)

URL

Type: Text

SLAVE3URL

HTTP URL used to contact slave Node 3. Format validation applies in the Config Editor when Multi Device Mode and this slave are enabled. An invalid URL disables this slave when the firmware loads the configuration. The destination must also be reachable from the primary Node; URL-format validation does not test connectivity.

Example
`http://windlass.local`

Default
`http://192.168.4.4`

Allowed values / range

HTTP host-only URL: `http://hostname` or `http://IPv4`. HTTPS is not accepted. No path or trailing slash, port, query string, fragment, or credentials. Hostnames use letters, digits, hyphens, and dots; firmware rejects consecutive dots and a leading or trailing dot or hyphen. Use a lowercase `http://` scheme.

Slave 4 enabled

Type: Boolean

SLAVE4

Enables slave Node 4 in Multi Device mode. Its address and trust token must also be configured for communication.

Example

on

Default

off

Allowed values / range

on / off

Trust-Token

Type: Text

SLAVE4TTO

Trust token used by the primary Node to authenticate with slave Node 4. It must match the token configured on that device.

Example

generated

Default

4fKef2IoP4

Allowed values / range

5–32 characters: A–Z, a–z, 0–9, - _ . ~ ! \$ % +; required only when Multi Device Mode and this slave are enabled

Label

Type: Text

SLAVE4TXT

Friendly label for slave Node 4 shown in multi-device navigation. Use the equipment name to make the destination easy to recognize.

Example

Windlass

Default

Switches

Allowed values / range

1–16 characters (firmware length limit)

URL

Type: Text

SLAVE4URL

HTTP URL used to contact slave Node 4. Format validation applies in the Config Editor when Multi Device Mode and this slave are enabled. An invalid URL disables this slave when the firmware loads the configuration. The destination must also be reachable from the primary Node; URL-format validation does not test connectivity.

Example

`http://windlass.local`

Default

`http://192.168.4.5`

Allowed values / range

HTTP host-only URL: `http://hostname` or `http://IPv4`. HTTPS is not accepted. No path or trailing slash, port, query string, fragment, or credentials. Hostnames use letters, digits, hyphens, and dots; firmware rejects consecutive dots and a leading or trailing dot or hyphen. Use a lowercase `http://` scheme.

Electrical & Temperature Data

Select sources for electrical measurements and temperature readings, including supported external systems. Configure connection details and data selection so displayed values correspond to the installed equipment.

Electrical Data Source

Type: Enum

ELECTRICALLDATASOURCE

Selects where battery and electrical readings originate, such as Victron GX or Smarter.Yachts Dash. Choose None when no compatible source is connected.

Example

VICTRON

Default

NONE

Allowed values / range

NONE — None**DASH** — Smarter.Yachts Dash (not yet available)**VICTRON** — Victron GX

Refresh Cycle - Background

Type: Enum

VICTRONBACKGROUNDREFRESH

Interval in seconds between background updates of Victron electrical measurements. Higher values reduce polling traffic. The editor offers the listed choices; manually edited configuration files accept any whole-number interval in the firmware range: 5–120 seconds.

Example

5

Default

5

Allowed values / range

5 — 5 seconds

15 — 15 seconds

60 — 1 minute

10 — 10 seconds

30 — 30 seconds

120 — 2 minutes

Victron GX IP address / hostname

Type: Text

VICTRONGXHOST

IP address or hostname of the Victron GX device providing electrical data over Modbus TCP. Ensure the device is reachable on the same network.

Example

192.168.1.50

Default

venus.local

Allowed values / range

1–64 characters (firmware length limit)

Refresh Cycle - Popup Open

Type: Enum

VICTRONPOPUPREFRESH

Interval in seconds between electrical-data updates while the detail popup is open. Short intervals provide more responsive readings. The editor offers the listed choices; manually edited configuration files accept any whole-number interval in the firmware range: 2–30 seconds.

Example

2

Default

2

Allowed values / range

2 — 2 seconds

10 — 10 seconds

30 — 30 seconds

5 — 5 seconds

15 — 15 seconds

Temperature Modbus Unit ID

Type: Integer

VICTRONTEMPUNITID

Modbus TCP Unit ID identifying the Victron temperature service. Use the value discovered or assigned for the corresponding service.

Example

24

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Manual

Type: Enum

VICTRONTEMPUNITMODE

Choose Manual to enter a Modbus Unit ID, or Scan to discover temperature sensors on the Victron GX and select one. Editor-only selection; this is not stored in config.txt. Scan selects a detected sensor and writes its VICTRONTEMPUNITID.

Example

MANUAL

Default

MANUAL (editor only)

Allowed values / range

MANUAL — Manual

SCAN — Scan

VE.Bus Modbus Unit ID Electric

Type: Integer

VICTRONVEBUSUNITID

Modbus TCP Unit ID for the VE.Bus service used to read inverter/charger information from the Victron GX.

Example

227

Default

227

Allowed values / range

1–247 (whole numbers)

Tank Data

Configure the identification and presentation of tank measurements. Assign the appropriate tank sources and labels so fresh water, black water, and other configured tank readings can be recognized correctly.

Label

Type: Text

TANK10TXT

Display name for tank 10, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 10

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK10UNITID

Victron Modbus TCP Unit ID for tank 10. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK11TXT

Display name for tank 11, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 11

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK11UNITID

Victron Modbus TCP Unit ID for tank 11. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK12TXT

Display name for tank 12, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 12

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK12UNITID

Victron Modbus TCP Unit ID for tank 12. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK13TXT

Display name for tank 13, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 13

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK13UNITID

Victron Modbus TCP Unit ID for tank 13. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK14TXT

Display name for tank 14, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 14

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK14UNITID

Victron Modbus TCP Unit ID for tank 14. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK15TXT

Display name for tank 15, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 15

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK15UNITID

Victron Modbus TCP Unit ID for tank 15. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK16TXT

Display name for tank 16, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 16

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK16UNITID

Victron Modbus TCP Unit ID for tank 16. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK1TXT

Display name for tank 1, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 1

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK1UNITID

Victron Modbus TCP Unit ID for tank 1. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK2TXT

Display name for tank 2, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 2

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK2UNITID

Victron Modbus TCP Unit ID for tank 2. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK3TXT

Display name for tank 3, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 3

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK3UNITID

Victron Modbus TCP Unit ID for tank 3. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK4TXT

Display name for tank 4, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 4

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK4UNITID

Victron Modbus TCP Unit ID for tank 4. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK5TXT

Display name for tank 5, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 5

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK5UNITID

Victron Modbus TCP Unit ID for tank 5. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK6TXT

Display name for tank 6, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 6

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK6UNITID

Victron Modbus TCP Unit ID for tank 6. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK7TXT

Display name for tank 7, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 7

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK7UNITID

Victron Modbus TCP Unit ID for tank 7. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK8TXT

Display name for tank 8, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 8

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK8UNITID

Victron Modbus TCP Unit ID for tank 8. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Label

Type: Text

TANK9TXT

Display name for tank 9, such as Fresh Water or Black Water. The label helps identify the tank in level displays.

Example

Fresh Water

Default

Tank 9

Allowed values / range

1–24 characters (firmware length limit)

Modbus Unit ID

Type: Integer

TANK9UNITID

Victron Modbus TCP Unit ID for tank 9. Enter the ID of the corresponding tank service; use 0 to disable this tank entry.

Example

20

Default

0

Allowed values / range

0–247 (whole numbers); 0 disables this source

Refresh Cycle - Background (seconds)

Type: Integer

TANKBACKGROUNDREFRESH

Time in seconds between background updates of configured tank levels. Increasing the interval reduces network polling.

Example

5

Default

5

Allowed values / range

5–120 (whole numbers)

Tank Data Source

Type: Enum

TANKDATASOURCE

Selects the source supplying tank-level data. Choose the compatible provider configured on the yacht.

Example

VICTRON

Default

NONE

Allowed values / range

NONE — None

VICTRON — Victron GX

DASH — Smarter.Yachts Dash (not yet available)

Show tanks on main screen

Type: Boolean

TANKSHOWONMAIN

When enabled, configured tank levels appear directly on the Node main screen. Disable to keep them in the detailed views only.

Example

off

Default

on

Allowed values / range

on / off

Victron GX IP address / hostname

Type: Text

TANKVICTRONGXHOST

Hostname or IP address of the Victron GX providing tank-level data. This can differ from the GX used for electrical data.

Example

192.168.1.50

Default

venus.local

Allowed values / range

1–64 characters (firmware length limit)

Windlass / Furler (WL / FU)

Configure anchor windlass controls, movement behavior, and optional chain counting. Verify direction inputs, sensor settings, and movement protection before operating the windlass.

Enable Chain Counter

Type: Boolean

WLCHAINCOUNTER

Enable the Windlass chain counter. When off, counting and its UI controls are hidden.

Example

off

Default

off

Allowed values / range

on / off

Chain per pulse (cm)

Type: Decimal

WLCHAINPERPULSE

Chain travel per IN8 sensor pulse, in centimetres. Used to calculate deployed chain length.

Example

30

Default

25.0

Allowed values / range

1–2000 cm per pulse; decimals accepted (editor step 0.01)

Display unit

Type: Enum

WLCHAINUNIT

Display unit for the chain counter: metres or feet.

Example

M

Default

M

Allowed values / range

M — Meters

FT — Feet

Up/Down Indicator

Type: Enum

WLCHAINDIRECTION

Chain counter direction source: SELF uses Node V2 relays; IN6DOWN uses IN6 for Down and IN7 for Up; IN6UP reverses the input assignments. IN8 measures chain pulses. Coast-down pulses always count as Down.

Example

SELF

Default

SELF

Allowed values / range

SELF — Self (Node V2 relays)

IN6DOWN — IN6 Down / IN7 Up

IN6UP — IN6 Up / IN7 Down

Counter Mode

Type: Enum

WLCHAINMODE

Chain measurement method: SENSOR counts IN8 pulses (default); TIME estimates travel from active UP/DOWN signals.

Example

SENSOR

Default

SENSOR

Allowed values / range

SENSOR — Sensor (IN8)

TIME — Time Based (estimated)

DOWN distance in 15 seconds (m)

Type: Decimal

WLCHAINTIMEDOWN

Measured metres deployed in 15 seconds of DOWN motor operation in Time Based mode.

Example

0.0

Default

0.0

Allowed values / range

0–250 m travelled in 15 seconds; decimals accepted (editor step 0.01)

UP distance in 15 seconds (m)

Type: Decimal

WLCHAINTIMEUP

Measured metres retrieved in 15 seconds of UP motor operation in Time Based mode.

Example

0.0

Default

0.0

Allowed values / range

0–250 m travelled in 15 seconds; decimals accepted (editor step 0.01)

Total chain length (m)

Type: Integer

WLCHAINMAXLENGTH

Total physical chain length in metres (1–250; default 80). Defines the progress-bar scale and 75%/90% warning thresholds.

Example

80

Default

80

Allowed values / range

1–250 m (whole numbers)

Has Light

Type: Boolean

WLHASLIGHT

Enables the optional lighting control associated with Windlass or Furler operation, if the output is wired for this purpose.

Example

off

Default

off

Allowed values / range

on / off

Tenderlift (TL)

Configure tenderlift movement and control behavior. Check travel directions, timing, and interlocks against the installed lift before enabling normal operation.

Has Light

Type: Boolean

TLHASLIGHT

Enables the optional Tenderlift lighting control. Only enable when the relevant output and light are installed.

Example

off

Default

off

Allowed values / range

on / off

Dive Compressor (DC)

Configure remote control and operating parameters for the dive compressor. Ensure the electrical installation, operating feedback, and maintenance requirements—including breathing-air filter service—are handled appropriately.

Breathing air filter reminder (hours, 5-200)

Type: Integer

DCBREATHINGFILTERINTERVAL

Operating-hour interval between breathing-air filter service reminders on the dive compressor. Follow the compressor and filter manufacturer's requirements for safe breathing air.

Example

100

Default

20

Allowed values / range

5–200 (whole numbers)

Provides feedback if running (IN8)

Type: Boolean

DCHASFEEDBACK

Enables use of the Dive Compressor running-feedback input so the Node can distinguish requested operation from actual running state.

Example

on

Default

off

Allowed values / range

on / off

Oil check reminder (hours, 5-100)

Type: Integer

DCOILCHECKINTERVAL

Operating-hour interval for Dive Compressor oil checks. Set according to the compressor manufacturer's maintenance schedule.

Example

25

Default

20

Allowed values / range

5–100 (whole numbers)

Dive Compressor service reminder (hours, 20-1000)

Type: Integer

DCSERVICEINTERVAL

Operating-hour interval for scheduled Dive Compressor servicing. The maintenance log uses this value to indicate when service is due.

Example

200

Default

200

Allowed values / range

20–1000 (whole numbers)

Hydraulic Valves (HV)

Configure hydraulic valve functions and the behavior of connected outputs. Verify valve assignments and safe switching behavior against the actual hydraulic installation.

Maintenance cycle at approx. (System time, normally UTC)

Type: Enum

HVHTMAINT

Defines the maintenance action or position for the HT hydraulic-valve configuration. Verify connected actuators before using maintenance commands. Editor/firmware discrepancy: HV00 (approx. midnight) is offered by the editor but missing from the firmware domain; it falls back to HV99 (never).

Example

HV99

Default

HV99

Allowed values / range

HV99 — never	HV00 — approx. midnight
HV01 — approx. 1am	HV02 — approx. 2am
HV03 — approx. 3am	HV04 — approx. 4am
HV05 — approx. 5am	HV06 — approx. 6am
HV07 — approx. 7am	HV08 — approx. 8am
HV09 — approx. 9am	HV10 — approx. 10am
HV11 — approx. 11am	HV12 — approx. noon
HV13 — approx. 1pm	HV14 — approx. 2pm
HV15 — approx. 3pm	HV16 — approx. 4pm
HV17 — approx. 5pm	HV18 — approx. 6pm
HV19 — approx. 7pm	HV20 — approx. 8pm
HV21 — approx. 9pm	HV22 — approx. 10pm
HV23 — approx. 11pm	

Reverse Open/Close

Type: Boolean

HVHTRVS

Reverses the actuator direction assignment for HT hydraulic-valve control. Confirm open and close behaviour after changing it.

Example

off

Default

off

Allowed values / range

on / off

Pump 1 enabled

Type: Boolean

HVMP1

Enables pump/channel 1 in MP hydraulic mode. Configure its name and run duration before using the output.

Example

on

Default

off

Allowed values / range

on / off

Run pump for (seconds, 3-1200, 180)

Type: Integer

HVMP1RUNFOR

Number of seconds for which MP pump/channel 1 runs when activated. Set a duration suitable for the connected equipment.

Example

180

Default

180

Allowed values / range

Editor: 3–1200 seconds (whole numbers). Firmware configuration-file range: 3–12000 seconds.

Label

Type: Text

HVMP1TXT

Label displayed for MP pump/channel 1. Use a name describing the connected pump or function. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

Example

Pump 1

Default

Pump 1

Allowed values / range

1–16 characters (firmware length limit)

Pump 2 enabled

Type: Boolean

HVMP2

Enables pump/channel 2 in MP hydraulic mode. Configure its name and run duration before using the output.

Example

on

Default

off

Allowed values / range

on / off

Run pump for (seconds, 3-1200, 180)

Type: Integer

HVMP2RUNFOR

Number of seconds for which MP pump/channel 2 runs when activated. Set a duration suitable for the connected equipment.

Example

180

Default

180

Allowed values / range

Editor: 3–1200 seconds (whole numbers). Firmware configuration-file range: 3–12000 seconds.

Label

Type: Text

HVMP2TXT

Label displayed for MP pump/channel 2. Use a name describing the connected pump or function. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

Example

Pump 1

Default

Pump 2

Allowed values / range

1–16 characters (firmware length limit)

Pump 3 enabled

Type: Boolean

HVMP3

Enables pump/channel 3 in MP hydraulic mode. Configure its name and run duration before using the output.

Example

on

Default

off

Allowed values / range

on / off

Run pump for (seconds, 3-1200, 180)

Type: Integer

HVMP3RUNFOR

Number of seconds for which MP pump/channel 3 runs when activated. Set a duration suitable for the connected equipment.

Example

180

Default

180

Allowed values / range

Editor: 3–1200 seconds (whole numbers). Firmware configuration-file range: 3–12000 seconds.

Label

Type: Text

HVMP3TXT

Label displayed for MP pump/channel 3. Use a name describing the connected pump or function. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

Example

Pump 1

Default

Pump 3

Allowed values / range

1–16 characters (firmware length limit)

Pump 4 enabled

Type: Boolean

HVMP4

Enables pump/channel 4 in MP hydraulic mode. Configure its name and run duration before using the output.

Example

on

Default

off

Allowed values / range

on / off

Run pump for (seconds, 3-1200, 180)

Type: Integer

HVMP4RUNFOR

Number of seconds for which MP pump/channel 4 runs when activated. Set a duration suitable for the connected equipment.

Example

180

Default

180

Allowed values / range

Editor: 3–1200 seconds (whole numbers). Firmware configuration-file range: 3–12000 seconds.

Label

Type: Text

HVMP4TXT

Label displayed for MP pump/channel 4. Use a name describing the connected pump or function. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

Example

Pump 1

Default

Pump 4

Allowed values / range

1–16 characters (firmware length limit)

Valve 1 enabled

Type: Boolean

HVNT1

Enables valve/channel 1 in NT hydraulic mode. Its open, close and maintenance behaviour is configured separately.

Example

on

Default

off

Allowed values / range

on / off

Maintenance cycle at approx. (System time, normally UTC)

Type: Enum

HVNT1MAINT

Maintenance action or position assigned to NT valve 1. Confirm that this position is safe for the connected system. Editor/firmware discrepancy: HV00 (approx. midnight) is offered by the editor but missing from the firmware domain; it falls back to HV99 (never).

Example

HV99

Default

HV99

Allowed values / range

HV99 — never

HV01 — approx. 1am

HV03 — approx. 3am

HV05 — approx. 5am

HV07 — approx. 7am

HV09 — approx. 9am

HV11 — approx. 11am

HV13 — approx. 1pm

HV15 — approx. 3pm

HV17 — approx. 5pm

HV19 — approx. 7pm

HV21 — approx. 9pm

HV23 — approx. 11pm

HV00 — approx. midnight

HV02 — approx. 2am

HV04 — approx. 4am

HV06 — approx. 6am

HV08 — approx. 8am

HV10 — approx. 10am

HV12 — approx. noon

HV14 — approx. 2pm

HV16 — approx. 4pm

HV18 — approx. 6pm

HV20 — approx. 8pm

HV22 — approx. 10pm

Label 'off'

Type: Text

HVNT1OFF

Action used to drive NT valve 1 to its OFF or closed state. Match the setting to the actuator wiring and valve behaviour.

Example

HV00

Default

Allowed values / range

0–8 characters (firmware length limit)

Label 'on'

Type: Text

HVNT1ON

Action used to drive NT valve 1 to its ON or open state. Verify the physical result during commissioning.

Example

HV01

Default

Allowed values / range

0–8 characters (firmware length limit)

Reverse

Type: Boolean

HVNT1RVS

Reverses the direction assignment for NT valve 1 when actuator movement is opposite to the expected ON/OFF behaviour.

Example

off

Default

off

Allowed values / range

on / off

Label

Type: Text

HVNT1TXT

User-facing label for NT valve 1. Choose a name identifying the valve or controlled circuit. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

Example

Valve 1

Default

Valve 1

Allowed values / range

1–16 characters (firmware length limit)

Type

Type: Enum

HVNT1TYPE

Selects the actuator/control type for NT valve 1. The setting must match the installed valve hardware.

Example

OC

Default

OC

Allowed values / range

OC — Open/Close

LR — Left/Right

Valve 2 enabled

Type: Boolean

HVNT2

Enables valve/channel 2 in NT hydraulic mode. Its open, close and maintenance behaviour is configured separately.

Example

on

Default

off

Allowed values / range

on / off

Maintenance cycle at approx. (System time, normally UTC)

Type: Enum

HVNT2MAINT

Maintenance action or position assigned to NT valve 2. Confirm that this position is safe for the connected system. Editor/firmware discrepancy: HV00 (approx. midnight) is offered by the editor but missing from the firmware domain; it falls back to HV99 (never).

Example

HV99

Default

HV99

Allowed values / range

HV99 — never

HV01 — approx. 1am

HV03 — approx. 3am

HV05 — approx. 5am

HV07 — approx. 7am

HV09 — approx. 9am

HV11 — approx. 11am

HV13 — approx. 1pm

HV15 — approx. 3pm

HV17 — approx. 5pm

HV19 — approx. 7pm

HV21 — approx. 9pm

HV23 — approx. 11pm

HV00 — approx. midnight

HV02 — approx. 2am

HV04 — approx. 4am

HV06 — approx. 6am

HV08 — approx. 8am

HV10 — approx. 10am

HV12 — approx. noon

HV14 — approx. 2pm

HV16 — approx. 4pm

HV18 — approx. 6pm

HV20 — approx. 8pm

HV22 — approx. 10pm

Label 'off'

Type: Text

HVNT2OFF

Action used to drive NT valve 2 to its OFF or closed state. Match the setting to the actuator wiring and valve behaviour.

Example

HV00

Default

Allowed values / range

0–8 characters (firmware length limit)

Label 'on'

Type: Text

HVNT2ON

Action used to drive NT valve 2 to its ON or open state. Verify the physical result during commissioning.

Example

HV01

Default

Allowed values / range

0–8 characters (firmware length limit)

Reverse

Type: Boolean

HVNT2RVS

Reverses the direction assignment for NT valve 2 when actuator movement is opposite to the expected ON/OFF behaviour.

Example

off

Default

off

Allowed values / range

on / off

Label

Type: Text

HVNT2TXT

User-facing label for NT valve 2. Choose a name identifying the valve or controlled circuit. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

Example

Valve 1

Default

Valve 2

Allowed values / range

1–16 characters (firmware length limit)

Type

Type: Enum

HVNT2TYPE

Selects the actuator/control type for NT valve 2. The setting must match the installed valve hardware.

Example

OC

Default

OC

Allowed values / range

OC — Open/Close

LR — Left/Right

Valve 3 enabled

Type: Boolean

HVNT3

Enables valve/channel 3 in NT hydraulic mode. Its open, close and maintenance behaviour is configured separately.

Example

on

Default

off

Allowed values / range

on / off

Maintenance cycle at approx. (System time, normally UTC)

Type: Enum

HVNT3MAINT

Maintenance action or position assigned to NT valve 3. Confirm that this position is safe for the connected system. Editor/firmware discrepancy: HV00 (approx. midnight) is offered by the editor but missing from the firmware domain; it falls back to HV99 (never).

Example

HV99

Default

HV99

Allowed values / range

HV99 — never

HV01 — approx. 1am

HV03 — approx. 3am

HV05 — approx. 5am

HV07 — approx. 7am

HV09 — approx. 9am

HV11 — approx. 11am

HV13 — approx. 1pm

HV15 — approx. 3pm

HV17 — approx. 5pm

HV19 — approx. 7pm

HV21 — approx. 9pm

HV23 — approx. 11pm

HV00 — approx. midnight

HV02 — approx. 2am

HV04 — approx. 4am

HV06 — approx. 6am

HV08 — approx. 8am

HV10 — approx. 10am

HV12 — approx. noon

HV14 — approx. 2pm

HV16 — approx. 4pm

HV18 — approx. 6pm

HV20 — approx. 8pm

HV22 — approx. 10pm

Label 'off'

Type: Text

HVNT3OFF

Action used to drive NT valve 3 to its OFF or closed state. Match the setting to the actuator wiring and valve behaviour.

Example

HV00

Default**Allowed values / range**

0–8 characters (firmware length limit)

Label 'on'

Type: Text

HVNT3ON

Action used to drive NT valve 3 to its ON or open state. Verify the physical result during commissioning.

Example

HV01

Default**Allowed values / range**

0–8 characters (firmware length limit)

Reverse

Type: Boolean

HVNT3RVS

Reverses the direction assignment for NT valve 3 when actuator movement is opposite to the expected ON/OFF behaviour.

Example

off

Default

off

Allowed values / range

on / off

Label

Type: Text

HVNT3TXT

User-facing label for NT valve 3. Choose a name identifying the valve or controlled circuit. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

Example

Valve 1

Default

Valve 3

Allowed values / range

1–16 characters (firmware length limit)

Type

Type: Enum

HVNT3TYPE

Selects the actuator/control type for NT valve 3. The setting must match the installed valve hardware.

Example

OC

Default

OC

Allowed values / range

OC — Open/Close

LR — Left/Right

Valve 4 enabled

Type: Boolean

HVNT4

Enables valve/channel 4 in NT hydraulic mode. Its open, close and maintenance behaviour is configured separately.

Example

on

Default

off

Allowed values / range

on / off

Maintenance cycle at approx. (System time, normally UTC)

Type: Enum

HVNT4MAINT

Maintenance action or position assigned to NT valve 4. Confirm that this position is safe for the connected system. Editor/firmware discrepancy: HV00 (approx. midnight) is offered by the editor but missing from the firmware domain; it falls back to HV99 (never).

Example

HV99

Default

HV99

Allowed values / range

HV99 — never

HV01 — approx. 1am

HV03 — approx. 3am

HV05 — approx. 5am

HV07 — approx. 7am

HV09 — approx. 9am

HV11 — approx. 11am

HV13 — approx. 1pm

HV15 — approx. 3pm

HV17 — approx. 5pm

HV19 — approx. 7pm

HV21 — approx. 9pm

HV23 — approx. 11pm

HV00 — approx. midnight

HV02 — approx. 2am

HV04 — approx. 4am

HV06 — approx. 6am

HV08 — approx. 8am

HV10 — approx. 10am

HV12 — approx. noon

HV14 — approx. 2pm

HV16 — approx. 4pm

HV18 — approx. 6pm

HV20 — approx. 8pm

HV22 — approx. 10pm

Label 'off'

Type: Text

HVNT4OFF

Action used to drive NT valve 4 to its OFF or closed state. Match the setting to the actuator wiring and valve behaviour.

Example

HV00

Default

Allowed values / range

0–8 characters (firmware length limit)

Label 'on'

Type: Text

HVNT40N

Action used to drive NT valve 4 to its ON or open state. Verify the physical result during commissioning.

Example

HV01

Default

Allowed values / range

0–8 characters (firmware length limit)

Reverse

Type: Boolean

HVNT4RVS

Reverses the direction assignment for NT valve 4 when actuator movement is opposite to the expected ON/OFF behaviour.

Example

off

Default

off

Allowed values / range

on / off

Label

Type: Text

HVNT4TXT

User-facing label for NT valve 4. Choose a name identifying the valve or controlled circuit. The editor allows 1–32 characters; the firmware truncates the stored label to 16 bytes.

Example

Valve 1

Default

Valve 4

Allowed values / range

1–16 characters (firmware length limit)

Type

Type: Enum

HVNT4TYPE

Selects the actuator/control type for NT valve 4. The setting must match the installed valve hardware.

Example

OC

Default

OC

Allowed values / range

OC — Open/Close

LR — Left/Right

Type (System)

Type: Enum

HVTYPE

Selects the hydraulic-valve application subtype, such as HT, NT or MP. The selected type determines which channel settings and controls apply.

Example

MP

Default

MP

Allowed values / range

HT — Motorized Valve (H-Bridge) with position feedback

NT — Spring-Return Valve without position feedback

MP — Electric Pump (run-time controlled)

Switching (SW)

Assign and configure switching functions for connected electrical loads. Review output assignments and control behavior to ensure each command operates the intended equipment.

Switch 1 enabled

Type: Boolean

SW1

Enables switching channel 1 and makes its configured control available in the interface.

Example

on

Default

off

Allowed values / range

on / off

MAXSEND (time in seconds)

Type: Integer

SW1MAXSEND

Maximum output activation time in seconds for momentary (MO) switching channel 1. Limits continuous operation from a held command.

Example

20

Default

20

Allowed values / range

1–86400 (whole numbers)

Switch 1 Remote Control

Type: Boolean

SW1REMOTE

Allows remote control of switching channel 1 for supported maintained (MA) or timer (TI) modes. Enable only when remote operation is appropriate.

Example

off

Default

off

Allowed values / range

on / off

Show Time / Timer

Type: Boolean

SW1SHOWTIMER

Shows timing information for switching channel 1 in the user interface, when the selected switching mode uses a timer.

Example

off

Default

off

Allowed values / range

on / off

Relays Status at startup

Type: Enum

SW1STARTUPACTION

Defines the state of switching channel 1 after startup in supported modes: ON, OFF or LAST (restore previous state). Choose a safe default for the connected load.

Example

OFF

Default

OFF

Allowed values / range

OFF — off

LAST — last

ON — on

Time (timer in seconds)

Type: Integer

SW1TIME

Automatic run duration, in seconds, for switching channel 1 when configured as a timer (TI) output. On an invalid value, the firmware falls back to 10.

Example

60

Default

60

Allowed values / range

1–86400 (whole numbers)

Label

Type: Text

SW1TXT

Button label displayed for switching channel 1, such as Deck Light. Use a concise description of the connected load.

Example

Deck Light

Default

Cockpit

Allowed values / range

1–16 characters (firmware length limit)

Type

Type: Enum

SW1TYPE

Selects the behaviour of switching channel 1: MO for momentary, MA for maintained on/off, or TI for timed operation.

Example

MA

Default

MA

Allowed values / range

MA — Maintained

MO — Momentary

TI — Timer

Switch 2 enabled

Type: Boolean

SW2

Enables switching channel 2 and makes its configured control available in the interface.

Example

on

Default

off

Allowed values / range

on / off

MAXSEND (time in seconds)

Type: Integer

SW2MAXSEND

Maximum output activation time in seconds for momentary (MO) switching channel 2. Limits continuous operation from a held command.

Example

20

Default

20

Allowed values / range

1–86400 (whole numbers)

Switch 2 Remote Control

Type: Boolean

SW2REMOTE

Allows remote control of switching channel 2 for supported maintained (MA) or timer (TI) modes. Enable only when remote operation is appropriate.

Example

off

Default

off

Allowed values / range

on / off

Show Time / Timer

Type: Boolean

SW2SHOWTIMER

Shows timing information for switching channel 2 in the user interface, when the selected switching mode uses a timer.

Example

off

Default

off

Allowed values / range

on / off

Relays Status at startup

Type: Enum

SW2STARTUPACTION

Defines the state of switching channel 2 after startup in supported modes: ON, OFF or LAST (restore previous state). Choose a safe default for the connected load.

Example

OFF

Default

OFF

Allowed values / range

OFF — off

ON — on

LAST — last

Time (timer in seconds)

Type: Integer

SW2TIME

Automatic run duration, in seconds, for switching channel 2 when configured as a timer (TI) output. On an invalid value, the firmware falls back to 10.

Example

60

Default

60

Allowed values / range

1–86400 (whole numbers)

Label

Type: Text

SW2TXT

Button label displayed for switching channel 2, such as Deck Light. Use a concise description of the connected load.

Example

Deck Light

Default

Horn

Allowed values / range

1–16 characters (firmware length limit)

SW2 Type

Type: Enum

SW2TYPE

Selects the behaviour of switching channel 2: MO for momentary, MA for maintained on/off, or TI for timed operation.

Example

MA

Default

MO

Allowed values / range

MA — Maintained

MO — Momentary

TI — Timer

Switch 3 enabled

Type: Boolean

SW3

Enables switching channel 3 and makes its configured control available in the interface.

Example

on

Default

off

Allowed values / range

on / off

MAXSEND (time in seconds)

Type: Integer

SW3MAXSEND

Maximum output activation time in seconds for momentary (MO) switching channel 3. Limits continuous operation from a held command.

Example

20

Default

20

Allowed values / range

1–86400 (whole numbers)

Switch 3 Remote Control

Type: Boolean

SW3REMOTE

Allows remote control of switching channel 3 for supported maintained (MA) or timer (TI) modes. Enable only when remote operation is appropriate.

Example

off

Default

off

Allowed values / range

on / off

Show Time / Timer

Type: Boolean

SW3SHOWTIMER

Shows timing information for switching channel 3 in the user interface, when the selected switching mode uses a timer.

Example

off

Default

off

Allowed values / range

on / off

Relays Status at startup

Type: Enum

SW3STARTUPACTION

Defines the state of switching channel 3 after startup in supported modes: ON, OFF or LAST (restore previous state). Choose a safe default for the connected load.

Example

OFF

Default

OFF

Allowed values / range

OFF — off

ON — on

LAST — last

Time (timer in seconds)

Type: Integer

SW3TIME

Automatic run duration, in seconds, for switching channel 3 when configured as a timer (TI) output. On an invalid value, the firmware falls back to 10.

Example

60

Default

60

Allowed values / range

1–86400 (whole numbers)

Label

Type: Text

SW3TXT

Button label displayed for switching channel 3, such as Deck Light. Use a concise description of the connected load.

Example

Deck Light

Default

Bimini

Allowed values / range

1–16 characters (firmware length limit)

Type

Type: Enum

SW3TYPE

Selects the behaviour of switching channel 3: MO for momentary, MA for maintained on/off, or TI for timed operation.

Example

MA

Default

MA

Allowed values / range

MA — Maintained

MO — Momentary

TI — Timer

Switch 4 enabled

Type: Boolean

SW4

Enables switching channel 4 and makes its configured control available in the interface.

Example

on

Default

off

Allowed values / range

on / off

MAXSEND (time in seconds)

Type: Integer

SW4MAXSEND

Maximum output activation time in seconds for momentary (MO) switching channel 4. Limits continuous operation from a held command.

Example

20

Default

20

Allowed values / range

1–86400 (whole numbers)

Switch 4 Remote Control

Type: Boolean

SW4REMOTE

Allows remote control of switching channel 4 for supported maintained (MA) or timer (TI) modes. Enable only when remote operation is appropriate.

Example

off

Default

off

Allowed values / range

on / off

Show Time / Timer

Type: Boolean

SW4SHOWTIMER

Shows timing information for switching channel 4 in the user interface, when the selected switching mode uses a timer.

Example

off

Default

off

Allowed values / range

on / off

Relays Status at startup

Type: Enum

SW4STARTUPACTION

Defines the state of switching channel 4 after startup in supported modes: ON, OFF or LAST (restore previous state). Choose a safe default for the connected load.

Example

OFF

Default

OFF

Allowed values / range

OFF — off

ON — on

LAST — last

Time (timer in seconds)

Type: Integer

SW4TIME

Automatic run duration, in seconds, for switching channel 4 when configured as a timer (TI) output. On an invalid value, the firmware falls back to 10.

Example

60

Default

60

Allowed values / range

1–86400 (whole numbers)

Label

Type: Text

SW4TXT

Button label displayed for switching channel 4, such as Deck Light. Use a concise description of the connected load.

Example

Deck Light

Default

Underwater

Allowed values / range

1–16 characters (firmware length limit)

Type

Type: Enum

SW4TYPE

Selects the behaviour of switching channel 4: MO for momentary, MA for maintained on/off, or TI for timed operation.

Example

MA

Default

TI

Allowed values / range

MA — Maintained

MO — Momentary

TI — Timer

Generator (GE)

Configure generator model, start/stop control, automatic operation, and service-related settings. Confirm wiring, running feedback, and safety conditions before enabling remote or automatic starts.

Enable automatic generator control

Type: Boolean

GENAUTOSTART

Enables automatic generator start and stop according to the configured battery state-of-charge or voltage thresholds. Ensure the generator wiring, running feedback, and safety interlocks are configured correctly before enabling.

Example

off

Default

off

Allowed values / range

on / off

Use Battery State of Charge (SoC)

Type: Boolean

GENAUTOSTARTSOC

Allows the generator automatic control to use battery State of Charge (SoC) values for its start and stop decisions. Configure the lower start threshold and upper stop threshold separately.

Example

off

Default

off

Allowed values / range

on / off

Use Battery Voltage

Type: Boolean

GENAUTOSTARTVOLTAGE

Allows automatic generator control to use battery voltage for start and stop decisions. Select the correct nominal battery system voltage and configure the corresponding thresholds.

Example

off

Default

off

Allowed values / range

on / off

Battery system

Type: Enum

GENBATTERYVOLTAGE

Nominal battery system voltage (12, 24 or 48 V), used to validate voltage thresholds.

Example

12

Default

12

Allowed values / range

12 — 12 V

48 — 48 V

24 — 24 V

Default generator runtime (minutes, 1-1440)

Type: Integer

GENDEFAULTRUNTIME

Default generator running duration in minutes used when starting a timed generator session. Adjust this to the normal charging or power-supply requirement.

Example

120

Default

120

Allowed values / range

1–1440 (whole numbers)

Enable oil level check reminder

Type: Boolean

GENERATOROILCHECK

Enables oil-level check reminders for the generator. The reminder interval is configured separately in operating hours.

Example

on

Default

on

Allowed values / range

on / off

Oil level check interval (hours, 5-100)

Type: Integer

GENERATOROILCHECKINTERVAL

Number of generator operating hours between oil-level check reminders. The reminder is active only when oil checks are enabled.

Example

25

Default

25

Allowed values / range

5–100 (whole numbers)

Generator service interval (hours, 20-1000)

Type: Integer

GENERATORSERVICEINTERVAL

Number of generator operating hours between scheduled maintenance services. The maintenance reminder uses this interval to determine when the next service is due.

Example

200

Default

200

Allowed values / range

20–1000 (whole numbers)

Generator Model

Type: Enum

GENMODEL

Selects the generator control profile, which determines how Node V2 handles start, stop and running feedback. Match this setting to the actual installed generator. The firmware also accepts GEOTHER, which is not offered by the Config Editor.

Example

GEONAN

Default

GEONAN

Allowed values / range

GEONAN — Cummins Onan

GEMAVS1 — MASE VS

GEFPANDA — Fisher Panda

GEGSVS1 — GENSET VS

Continue running after reaching 100% SoC (minutes)

Type: Integer

GENSOCFULLRUNMIN

Additional generator runtime in minutes after 100% SoC, when applicable.

Example

0

Default

0

Allowed values / range

0–1440 (whole numbers)

Start generator at or below (%)

Type: Integer

GENSOCSTART

Battery State of Charge threshold, in percent, at or below which an enabled SoC-based automatic start may be requested. Start must be lower than Stop. Invalid SoC pairs fall back to 30%/80%.

Example

30

Default

30

Allowed values / range

0–99 (whole numbers)

Stop generator at or above (%)

Type: Integer

GENSOCSTOP

Battery State of Charge threshold, in percent, at or above which an enabled SoC-based automatic stop may be requested. Start must be lower than Stop. Invalid SoC pairs fall back to 30%/80%.

Example

80

Default

80

Allowed values / range

1–100 (whole numbers)

Generator starting timeout (seconds, 0-120)

Type: Integer

GENSTARTTIME

Maximum time, in seconds, to wait for running feedback on IN8 after initiating a start on supported maintained-run generator models. A timeout indicates that start confirmation was not received.

Example

30

Default

30

Allowed values / range

0–120 (whole numbers)

Generator stopping timeout (seconds, 0-120)

Type: Integer

GENSTOPTIME

Maximum time, in seconds, to wait for running feedback on IN8 to clear after requesting stop on supported maintained-run generator models.

Example

30

Default

30

Allowed values / range

0–120 (whole numbers)

Start generator at or below (V)

Type: Decimal

GENVOLTSTART

Battery-voltage threshold below which the generator should start (V). Invalid voltage pairs fall back to 12.0/13.5 V, 24.0/27.0 V, or 48.0/54.0 V according to the selected battery system.

Example

12.0

Default

12.0

Allowed values / range

12 V system: 10–16 V; 24 V system: 20–32 V; 48 V system: 40–64 V. Decimal values accepted. Start must be lower than Stop.

Stop generator at or above (V)

Type: Decimal

GENVOLTSTOP

Battery-voltage threshold at which the generator may stop (V). Invalid voltage pairs fall back to 12.0/13.5 V, 24.0/27.0 V, or 48.0/54.0 V according to the selected battery system.

Example

13.5

Default

13.5

Allowed values / range

12 V system: 10–16 V; 24 V system: 20–32 V; 48 V system: 40–64 V. Decimal values accepted. Start must be lower than Stop.

Onan START signal (seconds, 1-120)

Type: Integer

ONANSTARTTIME

Duration in seconds of the START pulse sent on relay R1 for a compatible Cummins Onan generator. Match the setting to the generator interface requirements.

Example

15

Default

15

Allowed values / range

1–120 (whole numbers)

Onan STOP signal (seconds, 1-120)

Type: Integer

ONANSTOPTIME

Duration in seconds of the STOP pulse sent on relay R2 for a compatible Cummins Onan generator. Match the setting to the generator interface requirements.

Example

10

Default10

Allowed values / range

1–120 (whole numbers)



SMARTER.YACHTS NODE V2

End of configuration reference

Firmware 2.3.0 · Build 01684

Online configuration reference:

<https://smarter.yachts/manuals/configuration>

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