CRA SAMPLE

F14 Security release approval

Example after one year of operation, status 14.02.2028 · Nordwald Wärmetechnik GmbH, networked wood chip boiler NWT HACKTHERM 60 connect

Publisher	OT-Cyber.de, Max Gilg, Rosenheim
Sample company	Nordwald Wärmetechnik GmbH, networked wood chip boiler NWT HACKTHERM 60 connect (fictitious)
Note	Free sample, not legal advice

Company, people, data and numbers are fictitious. This is how the document looks after one year of operation.

1 Purpose and scope

No release without security approval: requirements, tests, SBOM, open vulnerabilities, rollout plan and signature of the PSO (P03, P11).

2 Document control

Field	Entry
Document no.	NWT-CE-F14
Version, status	1.5, approved
Scope	NWT HACKTHERM 60 connect (18 to 60 kW), controller, gateway, portal and app
Author	Jonas Weiß, Engineering and Product Security (PSO)
Checked by	Ingenieurbüro Lechner (safety), Sichtwerk Security (security)
Approval	Michael Berger, Managing Director, 14.02.2028
Next review	15.03.2029 or in the event of a substantial modification
Confidentiality	internal
Filing	Technical documentation NWT-TD-HT60C, retained for at least 10 years after the last unit is placed on the market

3 Security release approval: overview

Release	Content	Tests	SBOM	Rollout
NWT-REL-140	Series production baseline	Penetration test 02/2027	F04 1.4.0	Factory
NWT-REL-141	Bug fixes	Regression	F04 1.4.1	1 %, 100 %
NWT-REL-142	MQTT library	Regression, fuzzing	F04 1.4.2	1 %, 100 %
NWT-REL-150	Maintenance authorisation	Functional penetration test	F04 1.5.0	1 %, 10 %, 100 %
NWT-REL-151	TLS setting	Regression	F04 1.5.1	1 %, 100 %

4 Approval NWT-REL-150 (Gateway 1.5.0)

✓ Requirements F01 reviewed, A03 and A04 extended

✓ D07 updated, new risk C16 rated 4

✓ Functional penetration test by Sichtwerk on 10.11.2027 without high findings

✓ SBOM with 231 components, no open vulnerability

✓ Signature created under the four-eyes principle (Weiß, Datenwerk)

✓ Staged rollout, fallback to 1.4.2 tested

✓ Instructions D13 and security information prepared

✓ End of support date in the portal and on the label unchanged

Approval: J. Weiß, PSO, 20.11.2027; acknowledged by M. Berger

Rules: Security updates can be delivered separately from functional updates; no release with an open critical or high vulnerability; the fallback version remains on the device; approval never by the person who creates the signature acting alone

5 Terms and abbreviations

MQTT: messaging protocol between device and portal

NWT: abbreviation of the sample company in document and ticket numbers

PSO: product security officer

REL: release, an approved software version (number range)

SBOM: software bill of materials: which components in which version

TLS: encryption of the connection

6 Revision history and approval

Version	Date	Change	Approval
1.0	10.03.2027	Release 1.4.0	M. Berger
1.1	15.05.2027	Release 1.4.1	M. Berger
1.2	23.06.2027	Release 1.4.2	M. Berger
1.4	20.11.2027	Release 1.5.0	M. Berger
1.5	14.02.2028	Release 1.5.1	M. Berger

Approved: Michael Berger, Managing Director, 14.02.2028 (signed in the original). Free sample from OT-Cyber.de, not legal advice. Company, persons, serial numbers and data are entirely fictitious.