CRA SAMPLE

F04 SBOM release

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

For each firmware release, a reviewed software bill of materials (SBOM), checked against known vulnerabilities and approved by the PSO (Annex I, Part II, point (1), P06).

2 Document control

Field	Entry
Document no.	NWT-CE-F04
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 SBOM release: overview

Release	Date	Components	Open vulnerabilities	Approval
NWT-REL-140	10.03.2027	214	0	Weiß
NWT-REL-141	20.05.2027	214	0	Weiß
NWT-REL-142	24.06.2027	215	0, MQTT fixed	Weiß
NWT-REL-150	20.11.2027	231	0	Weiß
NWT-REL-151	14.02.2028	231	0, TLS fixed	Weiß

Format: CycloneDX 1.5, machine-readable, with version, origin, licence and checksum for each component

Matching: automated daily matching against public vulnerability databases and the catalogue of known exploited vulnerabilities; each match creates a ticket F05

Storage: stored for each release in the technical documentation, provided to market surveillance authorities on request

Approval 1.5.1: J. Weiß, 14.02.2028, after matching with no open findings

4 Extract from SBOM 1.5.1 (security-relevant components)

Component	Version	Origin	Maintained until
Linux kernel, long-term branch	6.6.x	Upstream, Datenwerk	12/2029
TLS library	3.0.x	Open source	09/2026, extended, replacement in 2028
MQTT library	1.3.x	Open source	active
Bootloader with signature verification	2027.10	Datenwerk	Product lifetime
Update agent	2.1	Datenwerk	Product lifetime
Modbus client, read-only	1.8	Datenwerk	Product lifetime

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	SBOM 1.4.0	M. Berger
1.1	20.05.2027	SBOM 1.4.1	M. Berger
1.2	24.06.2027	SBOM 1.4.2	M. Berger
1.4	20.11.2027	SBOM 1.5.0, machine-readable	M. Berger
1.5	14.02.2028	SBOM 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.