



Arbitrary Code Execution via Unsafe Deserialization in LabOne Q

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF](#)

Summary

CVE	CVE-2026-7584
State	PUBLISHED
Assigner	NCSC.ch
Source Priority	CVE Program / NVD first with legacy fallback
Published	2026-05-01 08:16:01 UTC
Updated	2026-05-01 08:16:01 UTC
Description	The LabOne Q serialization framework uses a class-loading mechanism (import_cls) to dynamically import and instantiate F

Risk And Classification

Primary CVSS: v4.0 8.4 HIGH from vulnerability@ncsc.ch

CVSS:4.0/AV:L/AC:L/AT:N/PR:N/UI:A/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

Problem Types: CWE-502 | CWE-502 CWE-502 Deserialization of Untrusted Data

Version	Source	Type	Score	Severity	Vector
4.0	vulnerability@ncsc.ch	Secondary	8.4	HIGH	CVSS:4.0/AV:L/AC:L/AT:N/PR:N/UI:A/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N/E:X
4.0	CNA	CVSS	8.4	HIGH	CVSS:4.0/AV:L/AC:L/AT:N/PR:N/UI:A/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N
3.1	vulnerability@ncsc.ch	Secondary	7.8	HIGH	CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H
3.1	CNA	CVSS	7.8	HIGH	CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H

CVSS v4.0 Breakdown

Attack Vector

Local

Attack Complexity

Low

Attack Requirements

None

Privileges Required

None

User Interaction

Active

Active

Confidentiality

High

Integrity

High

Availability

High

Sub Conf.

None

Sub Integrity

None

Sub Availability

None

CVSS:4.0/AV:L/AC:L/AT:N/PR:N/UI:A/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

CVSS v3.1 Breakdown

Attack Vector

Local

Attack Complexity

Low

Privileges Required

None

User Interaction

Required

Scope

Unchanged

Confidentiality

High

Integrity

High

Availability

High

CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H

Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	Zurich Instruments	LabOne Q	affected 2.41.0 26.1.2 python	Not specified
CNA	Zurich Instruments	LabOne Q	affected 26.4.0b1 26.4.0b5 python	Not specified

References

Reference	Source	Link	Tags
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www.zhinst.com/support/security/2026/zi-sa-2026-002	vulnerability@ncsc.ch	www.zhinst.com	
CVE Program record	CVE.ORG	www.cve.org	canonical
NVD vulnerability detail	NVD	nvd.nist.gov	canonical, analysis

No vendor comments have been submitted for this CVE.

Additional Advisory Data

Solutions

CNA: Update LabOne Q to version 26.1.2 (security backport on the 26.1.x line) or to 26.4.0 or later. The package can be updated via `pip install --upgrade laboneq``.

Workarounds

CNA: Do not load untrusted experiment files: only deserialize experiment files (JSON, YAML) that originate from a trusted source. Treat serialized experiment files with the same caution as executable scripts. Validate file provenance: when receiving experiment files from external parties (e.g. for support or collaboration), verify their origin before loading them. Audit serialized files: before loading, inspect serialized experiment files and verify that only trusted classes are listed as deserializers.

There are currently no legacy QID mappings associated with this CVE.

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