

TM Forum Open APIs Conformance Certification



Company Name: _____

Enghouse Systems

Product Name and Release Version:

NetBoss XT – 8.0.4.0

TM Forum Open API Name and Release Version:

TMF642 - Alarm Management API 5.0.0

Date: 08/09/2026

1. What Product or Solution does your API support?

NetBoss XT is a multi-vendor network management and operations support platform for network assurance. It provides centralized alarm and fault management, topology and inventory visibility, performance access, operational workflows and integration services.

The TMF642 Alarm Management API provides a standards-based northbound interface to the NetBoss XT alarm domain. External OSS/BSS, orchestration and assurance systems can consume alarms through the TM Forum Alarm model instead of product-specific interfaces. NetBoss XT remains the system of record: alarm reads/searches use native NetBoss services and creation/lifecycle changes use existing typed NetBoss XT business operations.

This submission covers the NetBoss XT product implementation and is not tied to a specific customer deployment.

2. Overview of Certified API

The API submitted for certification is TMF642 Alarm Management API v4.0.0. The NetBoss XT adapter maps the TMF Alarm resource to the native NetBoss XT alert model and lifecycle services.

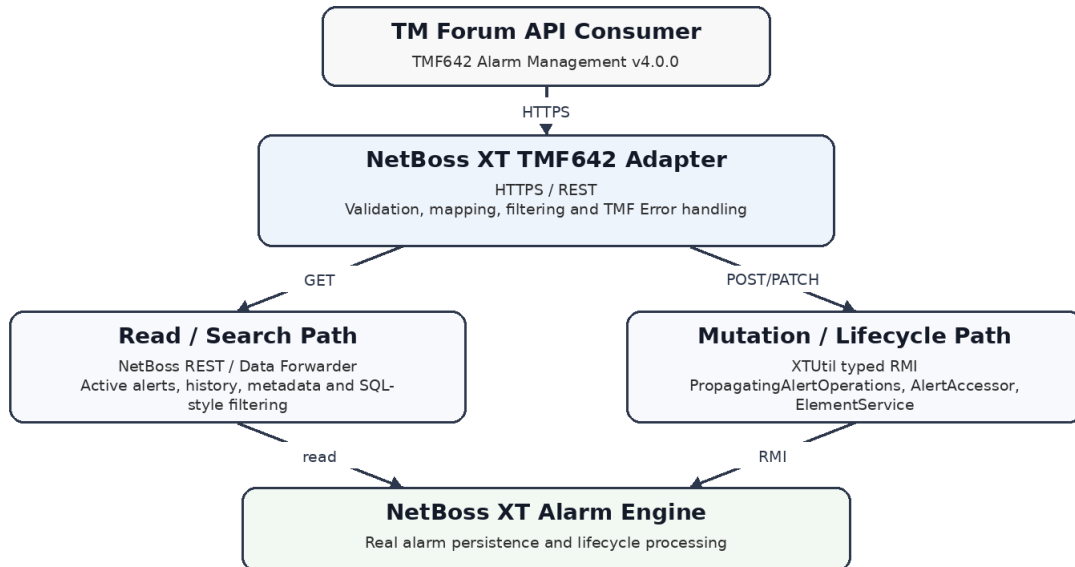
The implementation supports alarm collection retrieval and single-alarm retrieval, field projection and filtering, alarm creation, partial alarm updates, and standard not-found/error handling. The certification profile exercises filters including id, alarmRaisedTime, probableCause, sourceSystemId and state, plus PATCH updates of probableCause, perceivedSeverity, alarmType and state.

Read/search operations use NetBoss XT REST/Data Forwarder services. Capabilities not exposed by the canonical REST contract are executed through typed XT RMI using XTUtil, including AlertOperations through PropagatingAlertOperations, AlertAccessor and ElementService. Create and update therefore act on real NetBoss XT alarm state rather than a local or synthetic repository.

The adapter returns TMF642 resource representations and TMF Error responses while retaining NetBoss XT as the authoritative alarm source. CTK HTML and JSON results are supplied separately for TM Forum validation.

3. Architectural View

The TMF642 adapter is deployed as a standards-based northbound layer over the existing NetBoss XT alarm domain. It validates TMF requests, translates TMF alarm fields and filters into NetBoss semantics, and maps NetBoss results back to TMF642. Read/search traffic uses the existing REST/Data Forwarder path; create and lifecycle mutations use typed RMI through XTUtil. Both paths operate on the native NetBoss XT alarm engine and persistent operational state.



Test Results

Click here to view the test results:

[Enghouse-NetBossXT-TMF642-v5.0.0-HTMLReport.HTML](#)