

UNNS-ADM-A.3: Query and Audit Interface

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Abstract

This document specifies UNNS-ADM-A.3, the Query and Audit Interface of the UNNS Admissibility Framework technical realization. The interface defines the normative requirements for read-only access, historical inspection, and traceability of UNNS-ADM-B registry entries. It enables verification of admissibility records and enforcement actions without granting interpretive, evaluative, or modification authority.

1 Scope

UNNS-ADM-A.3 defines the requirements for querying and auditing admissibility registry records and related enforcement metadata.

It governs:

- read-only retrieval of registry entries,
- traversal of supersession and version histories,
- inspection of enforcement and compliance events,
- verification of immutability and temporal ordering.

UNNS-ADM-A.3 does not permit modification or adjudication.

2 Normative Position

UNNS-ADM-A.3 is subordinate to UNNS-ADM-A and complements:

- UNNS-ADM-A.1 (identifier and persistence),
- UNNS-ADM-A.2 (compliance validation).

It provides transparency and verifiability but no decision-making authority.

3 Principles

The Query and Audit Interface shall satisfy the following principles:

- **Read-only:** no query operation may modify registry state.
- **Completeness:** all registry entries must be queryable.
- **Traceability:** historical relationships must be reconstructible.
- **Non-interpretation:** no semantic judgments are performed.
- **Consistency:** repeated queries yield identical results.

4 Query Capabilities

UNNS-ADM-A.3 shall support the following query types.

Q1: Entry Retrieval

Retrieve a registry entry by identifier. Returned data must include the full immutable record.

Q2: Status Filtering

Retrieve all entries matching one or more admissibility statuses: *admissible*, *provisionally admissible*, or *inadmissible*.

Q3: Supersession Traversal

Retrieve the complete supersession chain for a given entry, including:

- preceding entries,
- superseding entries,
- reasons for supersession.

Q4: Temporal Queries

Retrieve entries based on creation timestamps or registry versions.

Q5: Dispute Inspection

Retrieve all entries marked as **disputed**, including linked assessments and resolution outcomes.

5 Audit Capabilities

UNNS-ADM-A.3 shall support audit inspection of:

- entry creation events,
- supersession events,
- compliance validation events (from UNNS-ADM-A.2),
- registry version changes.

Audit records must include timestamps, identifiers, and interface version metadata.

6 Immutability Verification

The interface shall enable verification that:

- registry entries have not been modified since creation,
- supersession links preserve original entries,
- identifiers remain stable over time.

Verification may rely on cryptographic hashes, checksums, or equivalent mechanisms.

7 Access Control

UNNS-ADM-A.3 shall enforce access controls consistent with UNNS-ADM-B:

- public read access,
- no write or modification access,
- no privileged query modes that bypass immutability guarantees.

Access events must be logged.

8 Failure Semantics

Query or audit failures (e.g. unavailable storage backend, network errors) are technical failures and must be reported explicitly.

No audit failure may be interpreted as admissibility failure or non-compliance.

9 Non-Guarantees

UNNS-ADM-A.3 does not guarantee:

- interpretive explanations of admissibility outcomes,
- resolution of disputes,
- performance characteristics or latency bounds.

10 Conclusion

UNNS-ADM-A.3 completes the technical realization of the UNNS Admissibility Framework by providing transparent, read-only access to admissibility records and enforcement history. By enabling auditability without authority, it ensures that methodological integrity can be verified independently of analysis or implementation.