# Module XX – Audit Dashboard & UI Overlay Definition

Version: 4.1 | Classification: CTO Mandatory (Governance Visibility Layer)

Scope: UI overlay schema, dashboard elements, capsule trace visualization

## 0. Purpose & Auditor Transparency

This module defines a non-code UI overlay schema and dashboard configuration for real-time governance visualization. It enables certification authorities, sovereign operators, and technical auditors to observe active capsule flows, trust violations, audit freezes, and ledger trace summaries in human-readable form.

## 1. Dashboard Core Zones

- Trust Flow Visualization: Shows active capsules, zone transitions, federation injections  
- Alert Layer Feed: Live list of Alert Capsules (TVC, PCC, FDAC, RAC)  
- Certification Score Map: Displays capsule simulation coverage and downgrade state  
- Capsule Lineage Trace: Graph of ledger-linked capsule chains  
- Operator Role Grid: View of active RDCs (Role Declaration Capsules)

## 2. Overlay Schema Format (UI JSON Model)

Each dashboard block may be rendered from a live overlay JSON entry:  
`{ type: 'alert', capsule\_id: 'CPS-TVC-34', tier: 2, zone: 'audit-core', timestamp: '...', resolved: false }`  
`{ type: 'score', certification\_id: 'CCC-002-A', trust\_score: 91, downgraded: true, grace\_active: true }`

## 3. Audit Signals & Color Coding (Standard)

- TVC: Red (Tier breach)  
- PCC: Orange (Policy collision)  
- FDAC: Blue (Federation fork)  
- RAC: Yellow (Replay event)  
- GRCC/REC: Green/Gray (Recovery/reentry)  
- SCC: Light green (simulation confirmation)

## 4. Integration Options

- Standalone HTML + WebSocket JSON feed  
- CLI-compatible terminal overlay (text-only rendering)  
- API feed puller via `/audit/overlay` endpoint (see API Interface Module)

## 5. UI Disclosure Policy

- Zones may mask operator roles unless Tier = 1 or audit-verified  
- All capsule IDs are pseudonymized unless auditor signature is present  
- Federation alerts are visible only to included federation nodes