MUX-02: Role-Based UX Binding

System: MaxUXSuite

Module ID: MUX-02

Version: 1.0

Title: Role-Based UX Binding

Classification: UX Policy Layer Extension

Responsible: TBYD Role & Visibility Architecture Team

License Model: TBYD License v2.2 / Audit Addendum A

Standards Reference: WCAG 2.1, ISO/IEC 27001, TBYD Capsule Protocol v2.1

Applicability: MaxOneOpen v4.1+

# 1. Purpose

This module describes how MaxWorkRoles are structurally bound to UI components using UX Capsules. The capsule links ensure visibility, interactivity, and accessibility conditions are governed by verified role references.

# 2. Role Binding Logic

- Each UX Capsule can reference one or more MaxWorkRoles (by capsule ID)  
- The visibility\_condition is resolved only if the role is active for the session actor  
- Delegation and fallback (refusal or override) are inherited from the referenced MaxWorkRoles capsule  
- Role conditions can be conjunctive, disjunctive, or scoped (AND/OR + system condition)

# 3. Binding Syntax (Example)

access\_roles:  
 - ROLE-ID-AUDITOR-MODULE-VIEW  
 - ROLE-ID-COMPLIANCE-EDITOR  
visibility\_condition:  
 rule: 'capsule(MaxProcess-001).state == executed AND actor in access\_roles'

# 4. Interaction with Delegation

Delegated roles preserve binding unless the UX capsule explicitly overrides delegation inheritance. Capsules can freeze interaction or fallback to non-interactive mode when the role is no longer valid or revoked.

# 5. CTO Summary

Role-based UX binding establishes a verifiable, treaty-aligned linkage between UI visibility and organizational roles. This module ensures that no UI element governed by MaxUXSuite can appear or function without structural role validation.