

## **MaxAudit – Dongle Interaction & UX Feedback Layer**

Version: 1.0

Issued by: SAC, Take Back Your Data (TBVD)

License: MaxOneOpen License v2.2 – Structurally Enforced

### **1. Objective**

This module defines the user-facing interface logic, interaction flow, and visual feedback system of the MaxAudit Dongle device. The UX design is minimal, self-evident, language-neutral, and hardened for field-level robustness.

### **2. Interface Philosophy**

- No touch interaction or operator configuration
- Entirely visual + optional auditory feedback
- Status must be recognizable within < 1 second
- Consistent iconography, shape, and color coding
- Use-case hardened: sunlight, gloves, physical vibration

### **3. Status Display Logic**

- Green Pulse: Fully compliant / audit passed
- Yellow Blink: Deviation found / remediation required
- Red Solid: Critical violation / operation must stop
- Blue Flash: Dongle not initialized / schema mismatch
- No Light: System not responding or power failure

### **4. Feedback Stack**

- Primary: RGB LED-based color pulse engine
- Optional: Piezo feedback (3 short tones = yellow, 1 long = red)
- Auxiliary: QR code generator (short-term validity, signed result)

### **5. Interaction Flow**

1. Insert Dongle → Power-on self-test
2. Auto-scan MaxInstance structure
3. Evaluate and map audit state
4. Display result visually
5. Wait for disconnect (no further interaction)

## **6. Field Operation Requirements**

- Operating range: -20°C to +55°C
- Visibility at >1m in daylight
- Dust-proof, shock-proof housing
- Status must persist for 30s or until unplugged

## **7. Optional Modes**

- Silent Mode (no audio, visual only)
- Masked Mode (status logged but not shown until authorized)
- QR Snapshot Mode (for airgapped report handover)