

24 July 2024

Digital Emblems - Framing the Problem

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Stakeholders

- ❖ Some organizations are protected under various legal statutes
 - Types of protection are orthogonal to this discussion
 - “Displaying” an emblem is a necessary signal in order to garner such protections
- ❖ Some organizations are required under legal statutes to display an emblem
 - Types of legal requirements are orthogonal to this discussion
- ❖ **Secure**, real-time signaling of protection does not currently exist

Signaling Protections

- ❖ Signaling protection is as important as ever, **but** physical indicators
 - Are not trustworthy,
 - Can't always be recognized by systems (or people),
 - Can't be shown to have been used.
- ❖ And... digital assets are being relied on more and more
- ❖ The types of functions necessary for secure, digital emblems are *also* directly applicable to physical ones

Common Needs

- ❖ Real-time evaluation of authenticity
 - Trust
 - Integrity
 - Traceability
- ❖ Increased visibility/detection
 - Directly and indirectly involved observers
- ❖ Reduced risk of misuse and abuse
 - E.g., Non-repudiation
- ❖ Revocation