ARC-IT V8 Workshop

ARC-IT & ITS SECURITY

Security

- Same basic security classification scheme in previous versions continues:
 - considered confidentiality, integrity, and availability requirements for each information flow and physical object
- Upgraded and revised for Version 8.0:
 - Every information flow triple now includes security classification ratings (C-I-A) which are used to provide device classification requirements for the physical objects
 - Explicitly supports security credentials management
 - References specific communications security standards

Securing ITS

- ITS as an information system
 - Trusted
 - Reliable
 - Available
- Security impacts all views
 - Enterprise must consider security-related roles.
 - Institutions will have relationships with security providers
 - Users will expect institutions to care for their security
 - Physical includes objects and flows dedicated to security
 - Functional includes functions dedicated to security
 - Communications profiles all require security protocols

ITS Security Areas

- ITS as a provider of security
 - Disaster response
 - Freight/Commercial Vehicle security
 - HAZMAT security
 - ITS Wide Area Alert
 - Rail security
 - Transit security
 - Transportation Infrastructure security
 - Traveler security
- Largely unchanged, just updated from 7.1

Take a Tour – Next Pit Stop

- Find the list of physical objects. Select "ITS Roadway Equipment"
- In the "Emergency Vehicle Preemption" service package, what is the device class suggested for ITS Roadway Equipment to provide appropriate security?
- What types of controls apply to devices of this class?
- What is Integrity requirement for the signal pre-emption request?
- Where do these High/Moderate/Low ratings come from?
- Where do these requirements (controls) come from?

What about all this PKI stuff?

- All of the connected vehicle security content has been integrated into the architecture
- SU08 and SU02 provide the necessary security SPs
 - For most, SU08 will be externally provided
 - For many, SU02 will have to be considered
- Much more information under the Security menu item

