



ETSI TC ITS

Intelligent Transport Systems Security Working Group 5 (WG5)

Focus Area

Security in Intelligent Transport Systems (ITS)

Key Activities & Responsibilities

- **Develop security standards** for ITS communications and data management
- Ensure **compliance with privacy, data protection, lawful access to ITS and vehicular related data**, and **data retention** regulations
- Investigate and define **security mechanisms** for delivering ITS services, especially over the **Internet**
- Conduct **security analysis** of protocols, network elements, and capabilities (e.g., IPv6, EMTel, key management)
- Monitor and align with **global security efforts**, including work in **ISO TC204**
- Integrate **regional regulatory requirements** (e.g., personal data and privacy protections)
- Maintain an evolving **threat analysis** as ITS functionality grows
- Specify **comprehensive security requirements** for Services, User access, Billing/accounting, Operations & maintenance, Fraud control

- Develop security specifications for **network components**, including **Access networks, Core networks, Legacy interfaces, Terminals**
- Define and document a robust **ITS security architecture** aligned with overall system design.

Specification Development

WG5 is responsible for developing specifications that cover:

- All components of the security architecture
- Management and operations of security elements
- Necessary **cryptographic algorithms** (coordinated with groups like **SAGE**)
- **Lawful access requirements**, in collaboration with **TC LI**, including:
 - Access to ITS related and vehicular data

Integration & Deployment

- Ensure seamless **integration of security specifications** into:
 - Access and core networks
 - Terminals
 - O&M systems
- Create a **timeline and milestone plan** for rolling out security architecture in sync with ITS system development.

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ETSI TC ITS Portal:
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