

D41.2 Detailed architecture and set of ICDs

PUBLIC SUMMARY ONLY (PS) Reference SCR-WP41-D-THA-011-PS

Full document identification		Reference	SCR-WP41-D-THA-011
Related SP / WP	SP3-SP4	Dissemination Level	CO
Related Deliverable	D41.1	Lead Author	Jean-François SULZER
Lead Participant	THALES	Reviewers	Yves LAVANANT, RATP Manuel MORENO, ICCA
Contributors	THA, ALS, ANS, BOM, NIC, MPH, AXI		

This document is issued in the frame and for the purpose of SECUR-ED project. This project has received funding from the European Union's Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 261605.

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Status:	Issued				



1 Public Summary

The first aim of this deliverable is to refine the architecture and the standard interfaces to be used in the various SECUR-ED demonstrations, as already started in deliverable D41.1 "Preliminary architecture and set of ICDs".

For this deliverable, the starting point was the various scenarios defined by the Public Transport Operators, allowing identification of generic needs. These generic needs have been materialized in modules defined by standard interfaces in order to reach our aim of flexibility, modularity, etc.

Specific focus is made on object-oriented programming, client-server and distributed architectures, IP and Ethernet networking, Web-services and Service Oriented Architectures (SOA). These main technological bricks are considered for the deployment of standardized, high interoperable and low-effort customizable platforms for security.

For each specific domain specified by the various working groups and for each subsystem used in that domain, all needed interfaces are defined and documented, relying as much as possible on existing international standards. These interface requirements will be the base for the modules implementation.

The last part of this deliverable is dedicated to a practical implementation of these modules and interfaces in one flagship demonstration, Milan. This illustrates that the adaptations done in the main demonstrations remain minor and prepare reuse in the satellite demonstrations.

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