Objective

Development of a secure component framework to facilitate the development and the deployment of components. This framework will be an OpenSource implementation based on the CORBA Component Model and the CORBA security services. Development of a secure component framework to facilitate the development and the deployment of components. This framework will be an OpenSource implementation based on the CORBA Component Model and the CORBA security services.

OBJECTIVES
This project concern the component technology for telecom application. The key objective is to build a component framework that can rapidly transform architecture and design level components to execution level and deploy them efficiently on distributed hardware platforms. The project will provide a component infrastructure based on the COBRA standard and supporting the operational constraints of telecom application. This component framework will be composed of an XML tool chain and of a runtime environment integrating dications (Network Management and Service Provisioning) to describe the components, to build the application y components assembly and to deploy the components over the network

DESCRIPTION OF WORK
This project is structured in six technical work packages. WP1 will address the requirements analysis of the telecom COBRA components:- Comparative state of the art of the existing component models and telecom component requirements. WP2 will tackle the specifications of the telecom component infrastructure:- XML notation of components and component assemblies,- Specification of the tool chain and runtime environments (component generator, dynamic component interconnection, COBRA service integration).- Specification of the API of telecom business components,WP3 will implement the COBRA component model:- Implementation of the COBRA Component tool chain and of the runtime environments (based on open source).WP4 will implement the COBRA component deployment tool:- Dynamic deployment based on XML configuration (with on-line evolution and redeployment).WP5 will experiment the whole component infrastructure on representative telecom application as:- Telecom Network management (integration of typical TMN FCAPS functions: Fault, Control, Accounting Performance, Security) - Service Provisioning (focus on quality of service QoS, Performance and reliability).WP6 will be dedicated to the exploitation and dissemination of the projects results in the industrial and academic communities.

Related information

Result In Brief

Optimising security in distributed telecom applications
Test framework to help network administrators and developers
Report Summaries

Telecommunications Management Network software
Open Source components for building network applications
Single sign-on security network platforms

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Container virtual machine
Extensible container model
Framework for testing software systems on component level
Network element management framework
OpenCCM - A Java based opensource CCM implementation
Proxy based testing
Qedo - A C++ based opensource CCM implementation
Security policies in complex distributed systems
Standards
The Qedo runtime
The Qedo tool chain
The component based secure parlay platform
The quality of service framework for Qedo
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Subjects
Information Processing and Information Systems - Innovation and Technology Transfer

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