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E-COLLEG - Advanced Infrastructure for Pan-European Collaborative Engineering

IST-1999-11746
2000 - Sept. 2003

E-Colleg develops technology that will enable engineers located in remote sites to efficiently collaborate over the Internet

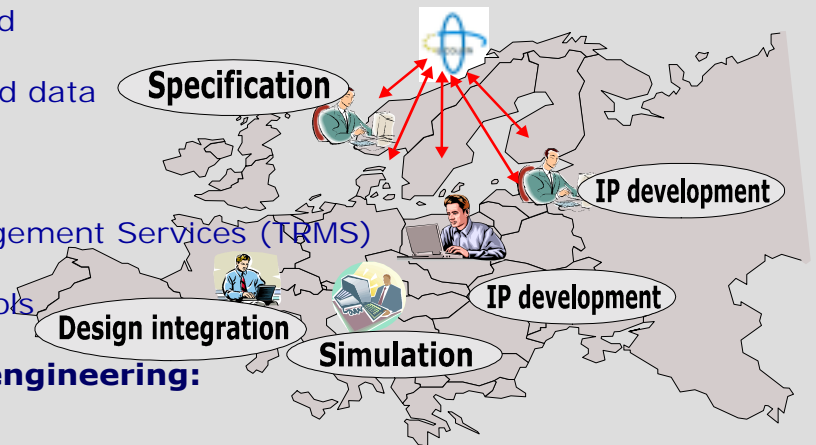
Key target - ACI: *Advanced Collaborative Infrastructure*
that will enable seamless Internet-based
(multi-site and multi-platform)
integration and management of tools and data

ACI components:

- Basic Collaborative Services
- Advanced Tool Registration and Management Services (TRMS)
- XML-based Integration Technologies
- Collaborative Extensions to Design Tools

Two industrial cases in distributed engineering:

- Thales Optronique / ITE
- Infineon Technologies / SUT



BASIC COLLABORATIVE SERVICES:

- Definition and implementation of complex distance-spanning engineering workflows
- Heterogeneous environment (OSs, domains, etc.)
- Higher level of workflow automation
- Profound experiments through 2 case studies: Thales Optronique/ITE, Infineon/SUT
- Definition of requirements for advanced services (TRMS)

but

- Passive tool-integration & oriented towards ASTAI(R)

TRMS:

- Open platform for dynamic tool-registration and management
- Dynamic, active advanced tool registration and discovery through Jini, PnP
- Generic data and tool encapsulation through XML, XSLT
- Standard technologies: XML, Corba, SNMP, WfXM, SOAP
- Integration of available service tools, e.g. security plug-in

XML-BASED EDA TOOL INTEGRATION:

- Already supported by a spectrum of tools for transformations, queries, editing validation
- Increasingly used for bi-directional transport of data and structure between applications
- XML is flexible enough for special extensions

COLLABORATIVE EXTENSIONS TO DESIGN TOOLS:

- Collaboration via Web-enabled Auriga™ simulation services
- Fine-grain version control with Intellectual Property protection

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