



# Investigation Teams Kickoff 20-21 Oct 08 Core Service Framework Area

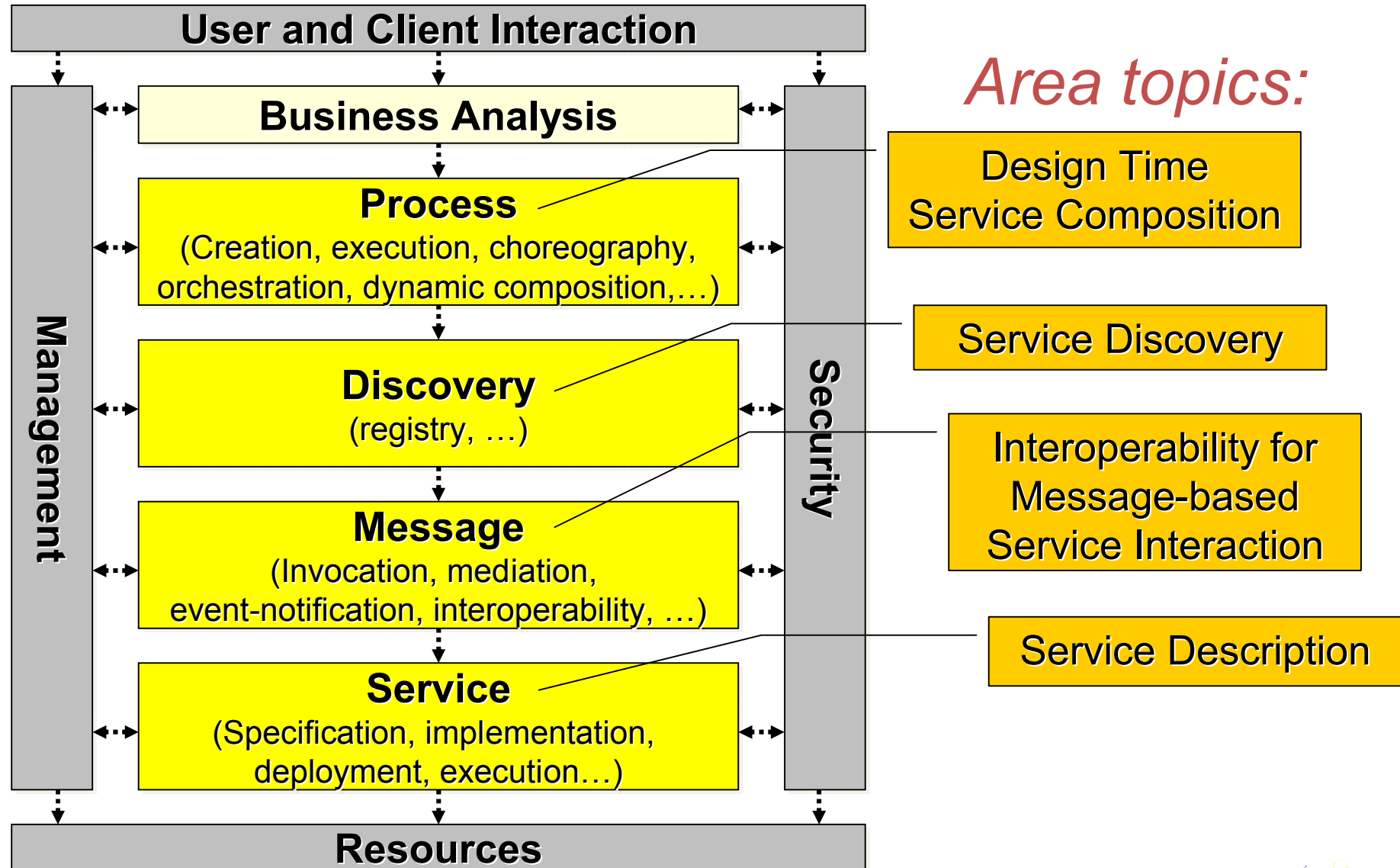
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- Presentation of core service framework area
- Topics of call 1
- Tentative topics of future calls
- List of position papers
- Concluding remarks

- The core of NEXOF RA architecture
- Functional components, core services, architectural patterns, best practices, standards
- Coherence, consistency, completeness
- Dependencies between areas
  - Interface to user interaction and infrastructure
  - Frame for security and quality of service
- Dependencies between area topics
  - Description and interoperability are orthogonal to other topics

# NEXOF RA System Structure



## Challenge

- Request specification and service selection

## Scope

- Search/selection/ranking facilities
- Automatic discovery

*Contact: Jesús Gorroñoigoitia/Antonio De Nigro*

## Challenge

- Link between service composition and BPM
- Graphical vs. executable composition modelling
- Human participation in compositions

## Scope

- Languages and Mechanisms
- Composition patterns
- Service decomposition and planning
- Assisted (semi-automatic) composition

*Contact: Jesús Gorroñoigoitia/Francisco de la Iglesia*

## Challenge

- Interoperability between services

## Scope

- Basis for enabling semantic interoperability on business level
- Mediation of data formats and protocols
- Orthogonal to composition and description

*Contact: Katharina Mehner/Franz Kudorfer*

## Challenge

- Reuse and automation
- Expressive and easy to use representations

## Scope

- Dedicated to creation, discovery, composition,  
...
- Therefore fundamental and orthogonal
- Not specifically addressing QoS, SLA, policies,  
or configuration

*Contact: Antonio De Nigro*

- Federated Registries
- Distributed Intelligent Deployment
- Service Lifecycle Management
- Event-Driven Architecture
- Access to Current Assets/Legacy Integration
- Service Creation
- Semantic Interoperability
- Semi-Dynamic Service Composition and Service Goal Decomposition
- Intelligent Service Discovery and Service Capability Extraction

# Design-Time Service Composition

Institution/Company	Represented Project	Position Paper Title	Main contact
FZI/SAP	SLA@SOI	Towards Design-Time Performance Prediction with the Service Component Architecture (SCA)	Christof Momm
SINTEF	SIMS	Design-time service composition according to SIMS	Richard Sanders
CEFRIEL	SeCSE	Towards dynamic service compositions	Elisabetta Di Nitto
FBK-irst	ASTRO	Process-level Composition of Web Services: a Semi-Automated Iterative Approach	Annapaola Marconi
CRP Henri Tudor		Design time service composition	Sophie Ramel
CWI	COMPAS	Design Time Service Composition with Reo Coordination Tools	Natallia Kokash
IBBT		Design time service composition	Filip De Turck
TECNALIA - Infotech	e-NVISION	Design time service composition	Valentín Sánchez
Siemens AG, CT SE 2		Core Framework - Design time service composition	Michael C. Jaeger
TNO		An MDA-based approach for achieving message-based service interoperability	Jack Verhoosel
University of Camerino		Design Time Service Composition for Testing, Monitoring and Adaptability	Andrea Polini
University of Bologna		Plug-ins as Patterns for Service Orchestration	Paolo Ciancarini
University Lyon 1	S-CUBE	Embedding Intelligence into Services Composition Framework	Salima Benbernou

# Service Discovery

Institution/Company	Project	Title	Contact
Institute for the Management of Information Systems		Service Discovery	Timmo Sellis
Dortmund University	SLA@SOI	Service Discovery	Constantinos Kotsokalis
SZTAKI	INFRAWEBBS, BREIN	Service Discovery	Andras Micsik
University of Trento, CWI		Collaborative web service discovery	Aliaksandr Birukou,
TECNALIA - Infotech		Service Discovery	Valentín Sánchez
City University London	SeCSE	User Request-Driven Service Discovery	Neil Maiden
IT Innovation Centre	GRIA, IRMOS	Service Discovery (2 x)	Mike Boniface
Universidad Politecnica di Madrid		FLEXI, OVAL/PM, RETVAS	Juan G. Sopeña

# Service Interoperability

Institution/Company	Project	Title/Topic	Contact
Fundacion Tekniker	EEE, Bidenet, OLANET	Interoperability of Message-Based Service Interaction	Francisco J. Diez
Univ. Lyon1	S-Cube, Compas	QoS for web service interactions	Salima Benbernou
Univ. Pisa	SENSORIA, TOCAI	Interoperability of Message-Based Service Interaction	Ugo Montanari
Telematica Instituut	MUSE, A-MUSE	Model-Driven Semantic Integration of Service Oriented Applications	Marc Lankhors/ Stanislav Pokraev
Univ. Delft	ARTOSC, Poseidon	Interoperability of Message Based Service Interaction	Eric Piel/ Gerd Gross
TNO Information and Communication Technology	-	An MDA-based approach for achieving message-based service interoperability	Jack Verhoosel
Siemens AG	-	SCA and WS*-Interoperability	Katharina Mehner

# Service Description 1/2

Institution/Company	Project	Title	Contact
University of Messina	RESERVOIR	SOA Performance Evaluation	Antonio Puliafito
Elsag Datamat	BREIN	Service Description Techniques	Barbara Cantalupo
Lancaster University	SeCSE	Faceted Service Description	Pete Sawyer
Clausthal University of Technology	OPEN	A Component Model supporting Proactive Configuration of Service-Oriented Systems	Holger Klus
CRP Henri Tudor	ADICT	Applying ISO/IEC-15504 PRM approach and GORE techniques to model and describe services	Eric Grandry
Department of Computer Science of University of Milano Bicocca	ADICT (?)	The relevance of design patterns to specify the overall design of a SOA-based system	Francesca Arcelli Fontana
NICE srl	ADICT (?)	EnginFrame Service Description XML	Francesco Ruffino
Institute for Cognitive Sciences and Technologies, National Research Council	NONE	An ontological foundation for the description of service systems	Nicola Guarino

# Service Description 2/2

Institution/Company	Project	Title	Contact
Telefónica Investigación y Desarrollo	RESERVOIR	Service Definition on Top of Cloud Architectures	Juan Caceres
Telematica Instituut (Telin)	A-MUSE	Service Description	Dick A.C. Quartel
STI Innsbruck	SOA4ALL	Service Description Techniques: Lightweight Service Semantics and Annotations Common for WSDL and RESTful Web Services	Tomas Vitvar
Dipartimento di Informatica, University of Pisa	TOCAI	Service Description	Ugo Montanari
Universidad Politécnica de Madrid	OVAL/PM, RETVAS, FLEXI	Service Description	Juan Garbajosa Sopeña
Orange Labs	AMIGO	Context Model and Universal API	Fano Ramparany
TNO	ADICT	Service Description: an architectural approach	Wout Hofman
Universitat Politècnica de Catalunya (UPC)	ADICT, SODA 2008	Service Description 28/10/2008,	Xavier Franch

# Concluding Remarks

- Questions and comments welcome, also later
- Tomorrow presentation of
  - Topics in detail
  - Process
- Further points of contact
  - Antonio De Nigro, ENGINEERING
  - Jesús Gorroñoigoitia/Francisco de la Iglesia , ATOS
  - Franz Kudorfer, SIEMENS