

# USTUTT – IAAS

## Objectives and Deliverables of Work Package 4

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- **“Triple Space and Semantic Web Services”**
  - “link the efforts of TripCom and Semantic Web Services”
  - define TripCom-based service discovery, communication protocols and communication coordination
  - provide Web Service registry mechanisms in a Triple Space
  - define interfaces to allow Semantic Web Services to communicate over a Triple Space
    - develop a Triple Space Grounding for Semantic Web Services
  - analyze approaches for data mapping and mediation in a decoupled Triple Space environment
  - provide integration of Triple Spaces with WSMX

# WP4 Management Team



<b>WP participant</b>	<b>PM</b>	<b>WP management team representative</b>
LFUI	15	Omar Shafiq
NUIG	15	Brahmananda Sapkota
USTUTT (Lead)	18	Daniel Wutke
TUW	6	Martin Murth
Cefriel	10	Emanuele Della Valle
TID	11	Sara Carro Martínez

# Deliverables WP4 (1)



WP 4		Milestone 1												Milestone 2												
Task	Dependency		M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24
T4.1		D4.1																								
T4.2	T2.1/4.1	D4.2																								
T4.3	T1.3/2.1/4.1	D4.3																								
T4.4		D4.4																								
T4.5	T4.2/4.3	D4.3																								
T4.6	T4.5	D4.5																								
Deliverable														D4.1												D4.2 D4.3
									T2.1 done						T1.3 done											

- D4.1 (M12) - Architectural integration of Triple Spaces with Web Service infrastructures (Lead: NUIG)
  - T4.1 Deployment of Web Service infrastructure in a Triple Space
- D4.2 (M24) - TripCom grounding for Semantic Web Services (Lead: LFUI)
  - T4.2 Mapping of Web Service communication into a Triple Space
    - allow communication with SWS based on RDF triples
    - provide an alternative to WSDL grounding
- D4.3 (M24) - Methodology for adopting Semantic Web Services in a Triple Space environment (Lead: TID)
  - T4.3 Implementation of Web Service registry mechanisms in a Triple Space
  - T4.5 Analysis of approaches for the mapping of data, message, and protocol mediation in a Triple Space
  - describe Triple Space-based interaction with Semantic Web Services (Discovery, Mediation, ...)

# Deliverables WP4 (2)



WP 4			Milestone 3						Milestone 4					
Task	Dependency		M25	M26	M27	M28	M29	M30	M31	M32	M33	M34	M35	M36
T4.1		D4.1												
T4.2	T2.1/4.1	D4.2												
T4.3	T1.3/2.1/4.1	D4.3												
T4.4		D4.4												
T4.5	T4.2/4.3	D4.3												
T4.6	T4.5	D4.5												
Deliverable								D4.4						D4.5

- D4.4 (M30) - Methodology for augmenting Semantic Web Services with WS-\* standards (Lead: USTUTT)
  - T4.4 Analysis of WS-\* standards and how they map into a Triple Space environment
  - Security, Policies, ...
- D4.5 (M36) - Triple Space integration with respect to WSMX (Lead: NUIG)
  - T4.6 Integration and evaluation of Triple Space within WSMX
  - enable asynchronous semantic communication between geographically distributed WSMX nodes

**End of Document**