

TASKS

Task 3.1: DTN overlay design and convergence layers for underlying protocols

- Task 3.2: Providing service abstraction to applications through content-centric approaches
- Task 3.3: Smart routing based on social interaction approaches

A deliverables, 2 milestones No FON participation TEKEVER only has minor contribution WP3 runs in parallel to WP4: Service enablement

Outcome of WP3 is a proof-of-concept implementation

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TASK 3.1

DTN overlay design and convergence layers for underlying protocols

- Task leader: DUTH
- Interconnect devices of different types
- Facilitate opportunistic communications
- Develop convergence layers for various underlying technologies
- Name-based replication

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TASK 3.2

Providing service abstraction to applications through content-centric approaches

Task leader: UCL

- Introduce a "content layer" to perform location-independent content resolution
- Incorporate user-, server- and content-mobility for smooth operation in infrastructure-less environments
- Extract personal data usage and consumption patterns seamlessly

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DELIVERABLES

- D3.1/D3.2 Initial and final architecture report (M16/M30)
- D3.3/D3.4 Initial and final ICN layer abstraction specifications (M12/M30)
- No clear deliverable for Task 3.3. Include in D3.1/D3.2?

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TASK 3.3

Smart routing based on social interaction approaches

Task leader: TECNALIA

- Integrate social aspects such as trust and social interaction
- Exploit HURRy, Dlife and SCORP routing protocols as basis
- Implement a large crowd scenario with mobile devices

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MILESTONES

- Both milestones on M30
- MS5: ICN layer abstraction specifications defined
- MS6: UMOBILE architecture implemented

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PARTNER CONTRIBUTION

- DUTH: Convergence layers, smart routing
- **UCL**: ICN content layer that accommodates social interactions
- **UCAM**: Forwarding and topology management, interfaces for QoS
- COPELABS: Social-aware and interest-based routing, social trust computation

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PARTNER CONTRIBUTION

- TECNALIA: Smart routing, input from FP7 SAIL
- **TEKEVER**: Convergence layers for aerial platforms
- SENCEPTION: Usage data contextualisation and system personalisation on-the-fly
- **AFA**: Dynamic and on-the-fly evaluation of the physical layer performance

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