



# Session 2: Scalable and adaptive ubiquitous service infrastructures

## *Workshop on Software and Service Development, Security & Dependability*

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Chair: Antonio Maña  
Rapporteur: Aljosa Pasic  
10-11 July 2007, Maribor



Funded by EC contract FP6-027599

# Session rationale (I)

*ESFORS Software and Service Development, Security & Dependability Workshop*

- Service oriented software and systems introduces various new challenges, besides those related to the dynamic and ad-hoc nature of service coalitions.
- The main problem is, that at this stage, we are not even fully aware of possible problems that service orientation will bring or, in some cases, we are not aware of the scale of potential problems.
- In other words, this session will deal with **UNKNOWN** or **UNDERESTIMATED** problems of future service oriented software and systems.
- This includes **prediction** and **behavioural analysis**, **scalability** of services and infrastructure components, **service mutations** and **dynamic adaptability**, **co-existence** and **compatibility**, **flexible TSD** etc.



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# Session rationale (II)

*ESFORS Software and Service Development, Security & Dependability Workshop*

- In this second edition we will revisit some of the research topics identified in the first ESFORS workshop including
  - virtualisation,
  - trustworthy computing,
  - trust and reputation engines,
  - security as service,
  - distributed authentication and authorisation services,
- but we are also interested in new issues such as
  - on demand security level (and TSD trade off mechanisms),
  - hosting and outsourcing TSD,
  - dynamic security and runtime support
  - security process networks,
  - event driven security etc.



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# Session objectives and structure

*ESFORS Software and Service Development, Security & Dependability Workshop*

- This would be a forward-looking type of session with visionary and roadmapping objectives.
- In essence, the basic objective of this session is obtaining a successful **prediction and gap analysis**.
- We will start with some presentations, followed by 5 minutes of questions.
- After all presentations have finished, we will have time to discuss the different issues that have been introduced by the presenters (+ new ones added by the audience).



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# Presentations

*ESFORS Software and Service Development, Security & Dependability Workshop*

- **Security, Dependability and Performance (C. Ragusa - UNIME)**
- **Runtime Dynamic Security (D. Llewellyn-Jones - LJMU)**
- **Dynamic Security Challenges (A. Maña - UMA)**
- **Trusted Computing Challenges (A. Muñoz - UMA)**
- **Dependability and Security Metrics (G. Csertan – BUTE)**





Now it's your turn!

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# Issues

*ESFORS Software and Service Development, Security & Dependability Workshop*

- **Data Security, Content protection**
- **Dependability evaluation / S&D measurement**
- **Runtime Dynamic Security**
- **Security engineering expertise capture**
- **Trusted Computing Challenges / Infrastructure Security**
- **Metrics**

