



SOCRATES in Standardisation

**Joint NGMN Socrates Meeting
September 17th, 2008**

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SON in LTE Standardisation - overview

- **Release 8:**
 - Some concepts contained, mainly regarding initial configuration (auto-configuration) of addresses, software, security settings, interfaces → not in main scope of SOCRATES
 - No major updates of self-organisation concepts and tasks possible any more, but a lot of detail work still necessary
 - **Example: Automatic Neighbour Relation (not considered by SOCRATES)**
 - → Due to scope (w.r.t. timing and topics) actually not a target for SOCRATES
- **Release 9:**
 - Currently foreseen as an Update Release for Rel. 8
 - It is expected that e.g. Load Balancing will be discussed within Rel. 9 standardisation – other SOCRATES use cases may also be considered
- **Release 10:**
 - No concrete planning available for Rel. 10 up to now

What can SOCRATES contribute?

- Promotion of solutions in standardisation through 3GPP contributing SOCRATES members
- Evaluation methodology & parameters to enable a common analysis and evaluation of the benefits of SON use cases
→ Standardisation of “Measures” for SON use cases
- Providing the framework and interfaces according to the definition in SOCRATES for SON, at least for self-optimisation

What can SOCRATES contribute?

- Supporting activities for Release 9 and 10 version of 3GPP TR 36.902 (Self-configuring and self-optimizing network use cases and solutions)
 - **Enhancement and completion of use cases:**
 - Coverage and capacity optimisation
 - Interference reduction
 - Mobility load balancing optimisation
 - Coverage hole management and Cell outage management (→ Mobility robustness)
 - Handover optimisation
- SOCRATES will be doing detailed simulations on the use cases, therefore standardisation contributions will have a solid technical basis

Challenges for standardisation contribution out of SOCRATES

- The standardisation directly out of a research project is difficult, therefore
 - Close cooperation of the participating SOCRATES members is necessary
 - Involvement of standardisation delegates already during planning and preparation of contribution
- It is not expected that the details of algorithms as developed by SOCRATES will be standardised. Standardisation will relate to measurements, architecture and interfaces.

SOCRATES liaisons to external fora

Forum	Partner	Representative	Contact Person within SOCRATES
3GPP RAN 2	VOD	Assen Golaup	Neil Scully
3GPP RAN 3	NSN	Alex Vesely / Karri Ranta-Aho	Christoph Schmelz
3GPP SA 5	EAB	Per Elmdahl	Ove Linnell
NGMN	VOD	Neil Scully	Neil Scully
COST 2100	TUBS	Thomas Kürner	Thomas Kürner
WWRF	NSN	Werner Mohr	Christoph Schmelz

Reference

- See also: **SOCRATES deliverable D5.3 – “Dissemination plan”**, available via www.fp7-socrates.eu
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