

eScop launches an open online community for knowledge-driven approaches

Call for chairs is currently open for candidates

The eScop project has launched a W3Community in order to advance the knowledge-driven approaches for system integration. The aim of the community is to lead to the standardization of the approaches used in the eScop project. The call for chairs is currently open for interested participants.

World Wide Web Consortium (W3C) provides a variety of standards that can be used to build application which use Internet as a platform for communication and integration. eScop project has recently launched its own community. The open Knowledge-driven Service-oriented System Architectures and APIs community (abbreviated **KiSS**) is created for sharing, elaborating and evolving knowledge-driven approaches for system integration.

- With the community the consortium aims to open the discussion for interested participants. W3C communities are public platforms. The aim of the community is to develop the concepts further and thus possible enhance existing or develop new standards for the industry, explains the technical coordinator of the eScop project **Andrei Lobov** (Tampere University of Technology). Lobov was one of the main drivers for the original idea about creating the community group.



Figure 1 KiSS flyers were distributed at Horizon 2020 Call Info Day in Brussels

The KiSS community group sees service-oriented architecture as a main paradigm for application creation. However, it is not enough to say that there is a set of some services that can be integrated according to the application needs. The integration is facilitated with semantic descriptions of the services. Furthermore, the special components are required at system run time in order to allow dynamic composition of the services accordingly semantic representation of adjusted or new system goals.

- The community is going to categorize different possible architectures to allow knowledge-driven approach for system integration. It provides reference architectures that also point out possible technologies for the solution implementation. The community targets different application domains and industries in order to benefit from cross-domain vision on development of knowledge-driven systems, states Lobov.

Call for chairs opened

W3C Communities are proposed and run by the community itself. Community Groups may choose to develop test suites, white papers, demos, or merely to hold discussions.

The KiSS group is managed by 6 re-electable chairs. All the chair positions are currently open for applications. The roles and responsibilities of the chairs go as follows:

eScop Details

Duration: March 2013 – February 2016

Total costs: 5,82 M€

Participating Countries:
Czech Republic, Finland,
Italy, Poland

Participating
organisations: 10

Contact

Coordinated by
FAST-Lab. at
Tampere University of
Technology

Project Leader
Prof. Dr. Jose L.
Martinez Lastra,
jose.lastra@tut.fi

Project Manager
Johanna Rytönen,
johanna.k.rytkonen@tut.fi

Technical Coordinator
Dr. Andrei Lobov,
andrei.lobov@tut.fi

www.escop-project.eu



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- General chair: Ideologist. Overall synchronization between different pillars of the KiSS. PR with other groups and external stakeholders. Member attraction, community group development.
- Chair for integration: Integration technologies, web service composition.
- Chair for knowledge: Knowledge representation and reasoning standards and methodologies.
- Chair for devices: Embedded devices, their adoption for KiSS.
- Chair for services: Web services, standards, methodologies for service definition.
- Chair for application domains: KiSS in different application domains. Cross-domain learning and development. Benchmarking.

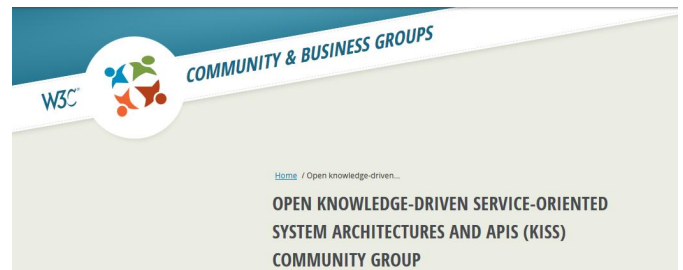


Figure 2 WC3 community groups are run by members

- We welcome everyone to join and participate on the group. When and if successful, the group could allow us to shape the industry and thus affect the future of European economy and on a larger scale the whole humankind, which extensively and daily uses W3C standards. Taking a position of a chair is a responsibility that can provide a front row seat in these new developments. Still, it is not necessary to have previous experience with W3C community groups. Most important are enthusiasm and subject knowledge. So, if you believe in loosely-coupled service-oriented semantically-enhanced systems, please, consider joining the movement, says Lobov.

KiSS community group can be found at <https://www.w3.org/community/kiss/>.

eScop is a three-year software development project, including 10 European partners and coordinated by FAST Laboratory at Tampere University of Technology. The aim of the project is to create service oriented framework that allows building and simulating factory and process control systems. This approach is called open, knowledge driven manufacturing executing system.

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