Title: **OSLC KM: elevating the meaning of data and operations within the toolchain**

The use of different techniques and tools is a common practice to cover all stages in the systems development lifecycle, generating a very good number of system artefacts. Moreover, these artefacts are commonly encoded in different formats and can only be accessed, in most cases, through proprietary and non-standard protocols. In this context, the OSLC (Open Services for Lifecycle Collaboration) initiative pursues the creation of public specifications (data shapes) to exchange any artefact generated during the development lifecycle. In this talk, authors present the OSLC KM (Knowledge Management) specification as a solution with a two-folded objective: 1) representation and management of any kind of system artefact and 2) extension of OSLC mechanisms to support the notion of delegated operation. In this manner, it is possible to enhance the exchange of data items and to reuse existing operations within the toolchain. Some practical examples of application developed in conjunction with The Reuse Company will be shown to demonstrate the viability and value of the proposed approach.

Bio:

Associate Professor within the Computer Science and Engineering Department of Universidad Carlos III de Madrid. His main research interests are semantic-based technologies, linked (open) data, knowledge engineering, software reuse, large scale architectures and graph analysis techniques applied to Systems and Software Engineering, the Media sector or e-Procurement. He has participated in more than 30 research projects in different competitive programs. He is also the author of more than 60 publications and other research works in the main international venues and impact factor journals in which he also participates as reviewer, editorial board member and guest editor. Currently, he is leading the Interoperability, Linked Data and Big Data cluster within the Knowledge Reuse research group lead by Prof. Juan Llorens and participating as associate researcher within The Reuse Company. Finally, he is member of INCOSE, AEIS, OMG, ISO (Big Data and Blockchain) and OSLC RM (Requirements Management).

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