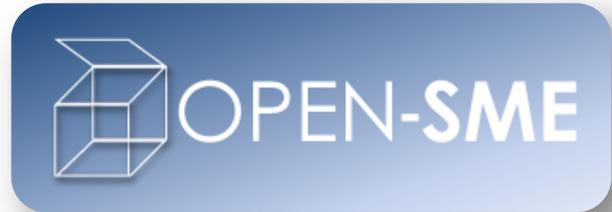


A newsletter for Component discovery, identification, retrieval and adaptation aiming at systematic Open Source Software Reuse on Small and Medium Enterprises



Details:

Issue Volume 2

OPEN-SME Newsletter

July 2012

<http://opensme.eu/>

OPEN-SME Project Completion

The OPEN-SME Project was completed at the 30th of June 2012 however it will be continued as a research theme of the RTD performers involved in the project. For example at the Aristotle University of Thessaloniki there are three PhD students that are pursuing their PhD in research areas related to the OPEN-SME project (i.e. Open Source Software Reuse, Software Architecture Recovery and Components & Quality).

Currently OSS reuse is restricted to (a) Whole OSS projects (e.g. Apache web server, MySQL Database), (b) the opportunistic reuse of isolated classes (i.e. copy-paste-adapt reuse), and (c) the reuse of well-known selected infrastructure components (e.g. Apache Commons). The OPEN-SME proposal was to extend the landscape of OSS reuse to domain-specific components extracted by arbitrary OSS projects. Achieving this goal however involves a number of challenges, such as recognizing, extracting, testing etc. valuable OSS components from OSS projects and describing them adequately so that developers feel confident to reuse them. The OPEN-SME main idea was to introduce a reuse service that will be operated by SME Association Groups (AGs) (e.g. Greek Association of Computer Engineers, Vasteras Science Park etc.) on behalf of their SME software development members. This service will be operated by software experts of the SME AGs who will produce components from OSS projects, test them, generate documentation, resolve licensing etc. **asynchronously** to application development by SMEs and **independently** from the SMEs. The components will be related to domains that are relevant to the SMEs. The components are then placed in a component repository, called COMPARE, where they become accessible to software development SMEs.

Results

The key results of this project are:

The two OPEN-SME Processes for Open-Source Software Reuse:

- A Domain Engineering Process: This process is applied by SME AGs during OSS component identification, extraction etc. It is available as a deliverable from the project's deliverables page (<http://opensme.eu/deliverables/>) but also available online at <http://opensme.eu/rode/>
- An Application Engineering Process: This reuse-oriented Application Engineering Process is applied by Software Development SMEs. Again it is available from the project's deliverables page but also online at <http://opensme.eu/aep/>

The three tools:

- OCEAN: a federated search engine for searching OSS code (essentially a meta-search engine). Available from the project's deliverables page but also online at <http://ocean.gnomon.com.gr/>
- COPE: a tool for extracting, testing, documenting and packaging software components originating from OSS projects. It is used by SME AGs when applying the domain engineering process. COPE is available from the project's deliverables page.
- COMPARE: an online repository for storing the extracted component packages and delivering them to SMEs.). Available from the project's deliverables page but also online at <http://www.teletel-projects.net/compare/>

OPEN-SME Consortium

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Impressum

OPEN-SME Newsletter is a publication prepared as part of the dissemination and public awareness activities of the Open-SME project (<http://opensme.eu>). You can feel free to copy or refer to content of our newsletter - we encourage you also to send us your comments. Our ambition for Open-SME is to become a medium that shall help the organic cooperation amongst professionals and practitioners from different disciplines with a focus on Open Source Software reuse for the benefit of SMEs.

Subscription information

If you do not wish to receive this newsletter anymore, please send an email to opensme-sig-owner@lists.auth.gr with the word 'unsubscribe' in the subject line.