

# Network of Support Centers for Very Small Entities (VSEs)

## Minutes of the Second Meeting Hyderabad, India May 29<sup>th</sup>, 2009

### 1. Introduction

The objectives of the Network were briefly presented:

- To accelerate deployment of ISO 29110 Standards and Guides for VSEs
- To accelerate the development and application of Guides (e.g. Part 5) and Deployment Packages through pilot projects.

### 2. Network of VSE Support Centers

- a. Signed collaboration agreements
  - Belgium (CETIC),
  - Canada (École de technologie supérieure)
  - Finland (Tampere University of Technology, Pori)
  - France (Université de Bretagne Occidentale)
  - Ireland (LERO)
  - Luxembourg (Tudor Center)
  - Parquesoft (Columbia),
  - Thailand (Institute of Software Promotion for Industries)
- b. Potential Collaborators
  - Hong Kong, Japan.

### 3. Deployment Packages (DPs)

A brief review of the status of the DPs was presented. As soon as the DPs for the Basic Profile are completed, they will be uploaded. This is the list of DPs for the Basic profile:

- Requirements Analysis (Belgium)
- Architecture and Detailed Design (Canada)
- Construction and Unit Testing (Mexico)
- Integration and Test (Columbia)
- Verification and Validation (Peru)
- Version Control (Thailand)
- Project Management (Ireland)
- Product Delivery (Thailand)
- Self-Assessment (Finland)

A DP, to guide the conduct of Pilot Projects, has been developed by Canada and Uruguay. It will be uploaded for review and comments.

### 4. Project Pilot of Part 5 and of Deployment Packages

Some members of the Network agreed to conduct pilot projects of Part 5 and of Deployment Packages.

## 5. Education Interest Group

The delegate from Canada proposed the establishment of an informal interest group about education. The main objective is to develop a set of course modules for software undergraduate and graduate students such that students learn about the ISO standards for VSEs before they graduate. The courses developed are, for academia, similar to the development packages for VSEs. In this case, the objective is to facilitate the teaching of the new standards by academia by providing them with readily usable course plans, teaching material such as presentation material, exercises, case studies, reading material.

Six course topics were briefly discussed:

- Course 1 - Introduction to ISO/IEC Software Engineering Standards
  - This course provides an introduction to the family of ISO/IEC Software Engineering Standards
- Course 2- Introduction to the ISO/IEC Standards, Technical Reports and Deployment Packages for VSEs
  - This course explains why ISO/IEC Standards, Technical Reports and Deployment packages for VSEs were developed and what ISO/IEC standards and technical reports are available for VSEs.
- Course 3 – Development of a Software engineering Process using ISO/IEC 29110 TR Part 5 – Engineering and Management Guide
  - This course uses the ISO/IEC Technical Report Part 5 to develop a software development process (i.e. process engineering)
- Course 4- Software Development Using ISO/IEC 29110 TR - Engineering and Management Guide
  - This course uses an existing software development process for VSEs to develop a software component
- Course 5- Self-Assessment of an ISO/IEC 29110-Based Software Process
  - This course will use the ISO/IEC Technical Report and deployment packages for VSEs to perform a self assessment of a software development process
- Course 6 – Conduct Deployment of ISO/IEC Standard in a VSE
  - This course will use the Engineering and Management Guide and Deployment Packages to deploy a process in a VSE

Canada will provide a template that will be used to describe a course (e.g. course plan or course syllabus) and a Deployment Package targeted for academia.

Delegates from 4 countries, volunteered to develop the following course modules:

- Ireland- Introduction to ISO/IEC software engineering standards.
- Canada - Introduction to the ISO/IEC 29110 Standards, Technical Reports and Deployment Packages for VSEs.
- Czech Republic- Software Development Using ISO/IEC 29110 TR - Engineering and Management Guide.
- Thailand-Deployment of ISO/IEC 29110 Engineering and Management Guide in a VSE.

At the next meeting in Peru, the courses will be presented to the delegates for comments. They will then be made freely available, on Internet, to academia.

## 6. Varia

The following delegates presented a short report about the activities in their countries:

- Japan
- Thailand

The delegate from INCOSE presented a project to develop profiles/deployment packages similar to the work done in WG24 to be applied to the field of systems engineering using the INCOSE Systems Engineering Handbook. The handbook is consistent with the international standard ISO/IEC 15288 – Systems engineering – system life cycle processes.

## 7. Meeting closure

The next meeting will be held in Peru in November 2009. The members of the Network will then report on the conduct of pilot projects and on the development of DPS and of educational modules as well as activities related to VSEs in their countries.

### Public Web sites about WG24

- Ireland (LERO): <http://www.lero.ie/research/internationalprojects/softwareprocessesforsmallenterprises/>
- Belgium (CETIC): <http://www.cetic.be/internal687.html>
- Canada (ETS): <http://profs.logti.etsmtl.ca/claporte/English/VSE/index.html>
- Finland: [www.tut.fi/pori](http://www.tut.fi/pori)
- SIPA: <http://www.sipa.or.th/en/home/index.php>