SEA new efficient approach of code and data management in remote measuring networks

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Abstract:

The Slovenian Environment Agency (SEA) operates a network of over 412 hydrological, meteorological and air quality automatic measuring stations, 285 of them were upgraded with DEMS - Distributed "real-time" Environmental Measuring System. This paper explores the new approach for remote software management from scratch to code implementation on target embedded platforms, as well as tools needed for application development and production environment. Source and installation code is published on Redmine project server with integrated SVN repository and it's at disposal for installation or further testing, development, upgrading as for adding new functionalities if necessary. Also a complete maintenance mechanism is provided via project server. Following such concept, improvement of application code management, traceability and consequently reduction of maintenance costs, was achieved. Results provided in this article presents systematic approach in problem analysis, diagnostics and solving, to transparent and traceable code management that leads to efficient upgrading over repository oriented services.