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Business Pilot: eHealth - Enhanced IMRT planning using Grid services on-demand with SLAS

Wednesday, 23 September 2009 18:00 (20 minutes)

Abstract

Cancer treatment planning with radiotherapy requires a detailed calculation before it is delivered to the patient. The doses which the patient receives must be enough to destroy the cancer cells but below the thresholds of undesired effects, protecting healthy tissues. BEinEIMRT is a business experiment in the Health sector which has checked a set of remote tools to help in the calculation, and in the virtual verification of the radiotherapy treatment plans. These tools use high accurate methods but need a big amount of computing capacity which is demanded from Grid infrastructures. They can be provided to the hospitals following a Software-as-a-Service model, hiding the complexity of the backend hardware to the users. Thanks to the use of this technology, complemented with a strong security and the negotiation of resources using Service Level Agreements, their introduction into the market is easier because decrease the initial investments. In the presentation, the software will be presented as well as the main business aspects and results of the BEinGRID business experiment, including the benefits for using Grid technology for their provision.

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