

HEALTH VERTICAL MARKET – NEW TRENDS FOR APPLICATION INTEROPERABILITY IN ROMANIA

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Agenda

- Concepts of interoperability
- Interoperability in emergency medicine
- Research in progress

Important concepts

XML or eXtended Markup Language is the basis for all of the elements behind the Web Services technologies. Considering the independence from the platform, XML is the engine behind internet data transfers, and the fundament of Web services. XML is in fact “the brother” of HTML (HyperText Markup Language), as the two have a series of resemblances. But there are some distinctions that cannot be overseen.

SOA

Service-oriented architecture (SOA) is a software design and software architecture design pattern based on distinct pieces of software providing application functionality as services to other applications. This is known as service-orientation. It is independent of any vendor, product or technology.

HL7

Health Level-7 or HL7 refers to a set of international standards for transfer of clinical and administrative data between Hospital information systems. These standards focus on the application layer, which is "layer 7" in the OSI model. The HL7 standards are produced by the Health Level Seven International, an international standards organization, and are adopted by other standards issuing bodies such as American National Standards Institute and International Organization for Standardization.

VIDEO - Case study - Interoperability in emergency medicine

SMURD

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SMURD Case Study

In small Romanian towns, there are not always qualified personnel to provide emergency medical services. In situations where emergencies occur such hospitals use to call an ambulance or helicopter to retrieve the patient. The decision is taken by the doctor who sees the patient, without any making an assessment by the emergency unit.

In most cases, the lack of qualified personnel for emergencies lead to inefficient use of resources.

Being limited resources (emergency medical helicopter to SMURD Targu Mures and a number of ambulances), misallocation of these resources can lead even to loss of life. Considering these aspects, SMURD decided to conduct a telemedicine project that provides support in for the emergency situations for 40 hospitals in central and northern Romania.

Research in progress

- Application interoperability within hospitals and interoperability with other institutions
- Up to now four hospitals

Did you implement / Do you plan to implement a technological solution dedicated to integrated informatics system interoperability within the hospital?

Do you use integrated informatic systems
with business partners?

Are the systems within the company integrated with those of public institutes?

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