

Products

Lessons Learned from the History of Interoperable B2B Communication

- **Lesson Eight: Open source products are just another product!**

The Web services arena has a number of open source alternatives to commercial offerings. While open source products are budget-friendly from a licensing standpoint and are usually the product of a diverse development community, open source products are still software products like their commercial counterparts and do not deliver interoperability out of the box. Unlike commercial products, open source products often do not have consistent funding and development is ad hoc via a user community.

Uit: Lessons Learned from the History of
Interoperable B2B Communication
Drummond Group, 2007

Lessons Learned from the History of Interoperable B2B Communication

- **Lesson Nine: Interoperability certification for B2B communication is critical.**

Despite the careful and thorough work of a standards body, nearly every standard leaves out rules or conditions which affect the implementation. Most standards have optional components using words such as "SHOULD" or "MAY." While they may be necessary to allow for flexibility, these words often lead to differences that create interoperability issues. Also, standards have "gray" areas where the requirement is not clear or can be misinterpreted. In these cases, developers either choose or are forced to make their own interpretation where the standard is silent or confusing and this is how interoperability issues arise.

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Open Source

Download Webswell Connect 2
a comprehensive ebXML/AS2 B2B framework



Hermes Messaging Gateway v2.0 (H2O)



OrionSMG
Secure message gateway



Commercial



Semantion Registry
And Repository



WebSphere Partner Gateway v6.1



webMethods integration platform



Comparing Messaging Systems for B2B



BusinessConnect ebXML Protocol



B2B Suite



Communication Module ebMS



VersaLex



BizManager



E-Business Suite



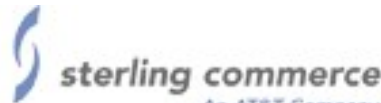
PowerDesigner



Business Integration (BI) Products



Interstage Application Server



Gentran



terminalONE™ Transport



ebMS for TradeXpress

Certification



Cleo Communications

Axway

Generix Group

IBM

Inovis

TIBCO Software Inc.

SterlingCommerce

ORACLE

XENOS

webMethods

Success Stories

Success Stories

- UK NHS (Health Service)
- HL7 (Canada)
- National Health Network, Norway
- US Centers for Disease Control
- Netherlands Criminal Justice System
- British Telecommunications (part of a full business process)
- General Motors
- T-Mobile
- US Department of Defense
- Automotive: General Motors (North America)
- Telecom: British Telecom, T-Mobile
- Healthcare-insurance: Canada, Germany, Center for Disease Control
- Government: US Department of Defense
- Steel: Steel24x7
- Energy Trade (EFET) - Netherlands
- Insurance (“intermediairs”) - Netherlands
- Temporary Labour (Manpower/Nuon) – Netherlands
- ...

Links

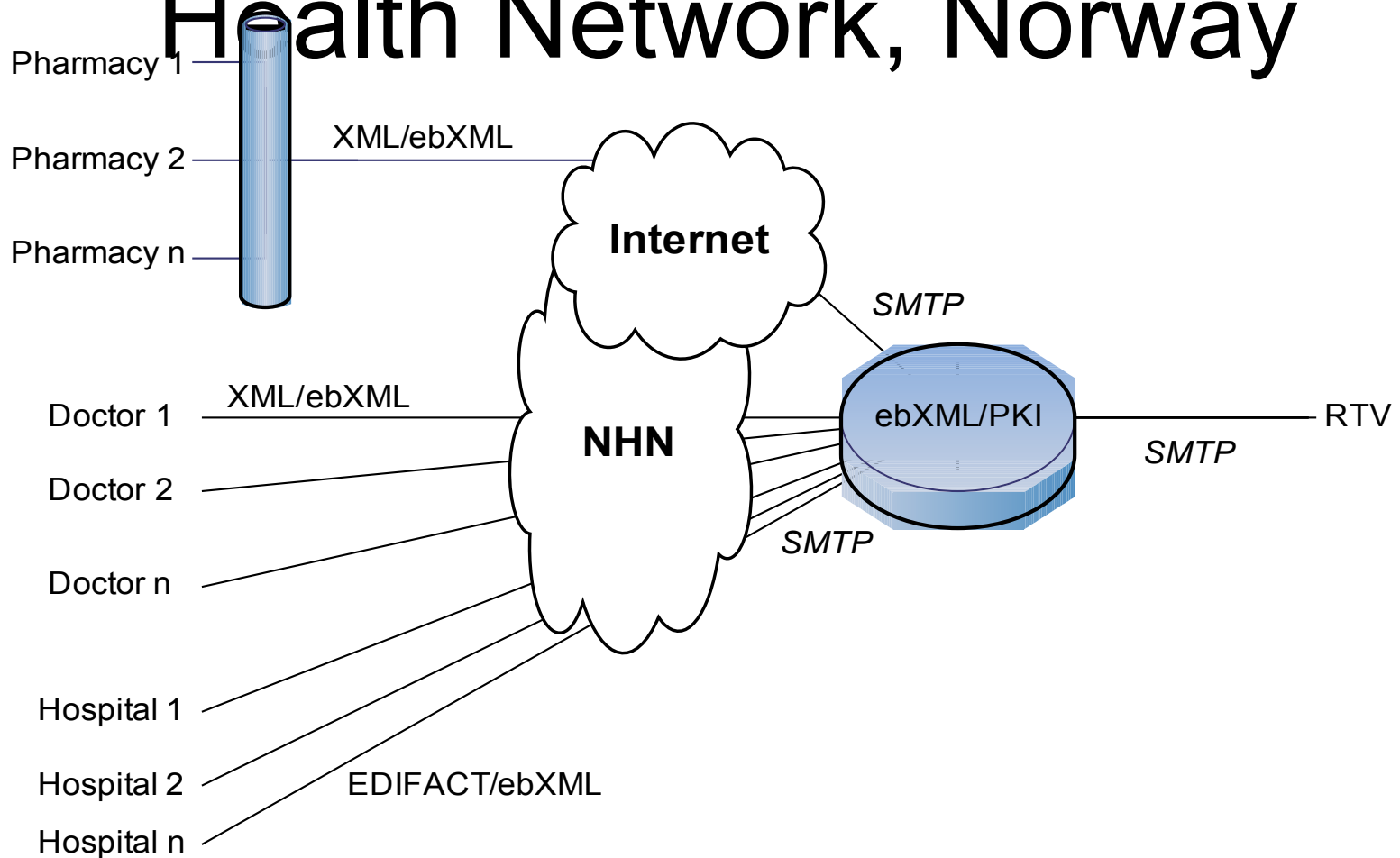
- [European Federation of Energy Traders \(EFET\) \(demo\)](#) - ebMS
- [Criminal Justice System in the Netherlands](#) - ebMS - "[Electronic Information Exchange in the Criminal Justice System in the Netherlands](#)"
- [Environmental Public Health Tracking Network](#) - ebMS
- [Electric Reliability Council of Texas \(ERCOT\)](#) - ebMS
- [General Motors' Retail Inventory Management \(RIM\)](#) - ebMS, reported in [ComputerWorld](#)
- [HL7 Registry](#) - ebRR
- [Korea Ministry of Government Administration and Home Affairs](#) - Adopted ebXML infrastructure to send and receive official documents with governmental and non-governmental organizations. ebMS reported to have been installed at 65 organizations, with another 650 planned (received by e-mail, no links available).
- [Norwegian e-Health Infrastructure](#) - based on XML, ebXML and PKI - [OASIS Case Study](#) - UN/EDIFACT over ebMS replacing X.400
- [STEEL24-7](#) - ebMS A virtual communications hub serving the European steel industry in order to facilitate collaboration between buyers and sellers; also the subject of an [article](#) in the Cover pages
- [XML Registry and Repository for the Education Community](#) - A Collaborative effort of the U.S. Department of Education's Office of Federal Student Aid (FSA), the Postsecondary Electronics Standards Council (PESC), and the education standards community.
- [UK National Health Service NPfIT](#) - ebMS - [OASIS Case Study](#)
- [U.S. Centers for Disease Control - Public Health Information Network Messaging System \(PHINMS\)](#) - ebMS, CPA/CPH and HL7 messages
- [US Department of Defense Metadata Registry](#) - ebRR
- [Volkswagen of America](#) - ebMS - "[Driving Standards](#)" in Information Week, Mar 1, 2004. Now reportedly live with 1,000 ebXML messaging connections to retail dealer systems.

Success



Three world leaders in steel, Arcelor, Corus and ThyssenKrupp Steel, took on the challenge in the year 2000 to create an e-business service provider for the steel industry called STEEL24-7. The company's mission is to leverage the commercial relationships between steel buyers and suppliers through the integration of business processes across the boundaries of existing companies. STEEL24-7 establishes a strong link between old and new economies and between steel buyers and suppliers.

ebXML services in the National Health Network, Norway



Norway eHealth Applications (early 2006)

- **Medical Certificate**
 - 900 general practitioners at 350 offices (out of a total of 1850 offices) are using this application, covering access to 20% out of a total of 3.5 million medical records
- **Doctors Request for Payment**
 - Used by 500 doctors at 200 offices
- **Pharmacies Request for Payment**
 - All pharmacies in Norway are using this application, and transactions totalling 10 billion Norwegian Kroner (equivalent to 1.2 billion EURO, or 1.5 billion USD) annually are transacted using this application
- **European Health Insurance Card (EHIC)**
 - Two million cards have been produced
- Next project is electronic transmission of prescriptions

Scope for NHS Connecting for Health

Choose and book

Patient Choice

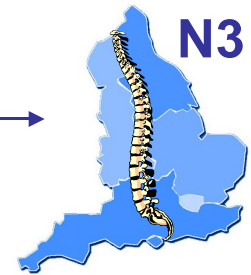
Secondary Uses Service

Analysing National Health Trends



Electronic Prescriptions Service

- Largest civil IT project in the world
- 40,000 GPs
- 80,000 other doctors
- 350,000 nurses
- 300+ hospitals
- 10 year programme
- 50m+ patients
- 1.344m healthcare workers



N3

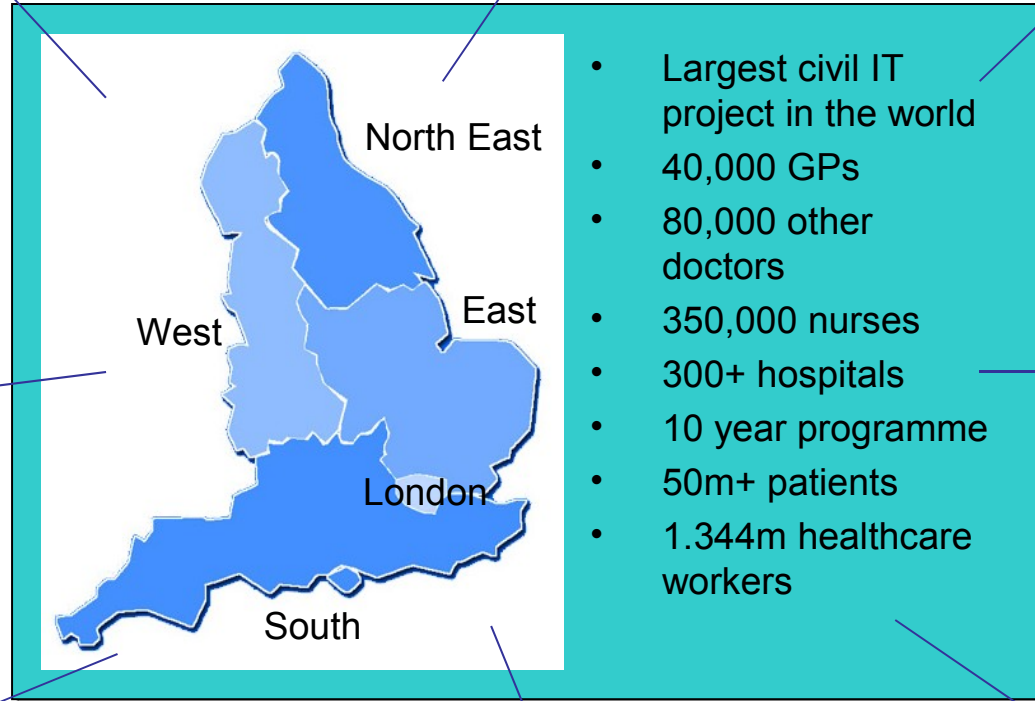
New National Network

Healthspace

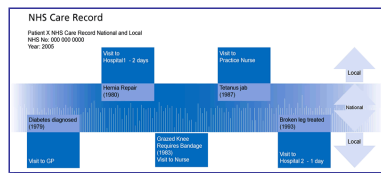
Web Access for Patients

NHSmail

Secure E-mail for all NHS workers



Picture Archiving & Communications Service



National & Local Care Record Services

Netherlands Criminal Justice System

