FMS AS4

Introduction

- Flame Computing
- OASIS Applicability Statement (AS4)
- FMS Product Architecture
- FMS Infrastructure
- FMS Interoperability
- FMS Implementations
- Demonstration
  - AS4 Push
  - AS4 Pull
- Q&A

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Flame Computing Enterprises

- Established 1998
- System Software Development specialising in B2B Messaging
- Messaging Solution in the Pharmaceutical Industry
- Rosettanet B2B
- EPP (IETF Std 69) MSH for the Domain Name Industry
- OASIS ebMS V3.0 MSH
- OASIS AS4 MSH
- Member of OASIS
- Member of OAGi

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OASIS AS4

- Developed by Subcommittee of OASIS ebXML Messaging Technical Committee
- Based on ebMS V3 Profile Constrained to Web Services
- Secure Document Agnostic B2B
- Web Services based SOA B2B
- Secure Message Pull
- Secure Message Push
- Built in Receipt Mechanism (NRR)
- Compression
- Multi-Hop (ebMS V3 Part 2)
- AS4 ebHandler (Server Based Sending and Receiving)
- AS4 Light Client (Send using Push, Receive using Pull)

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Light Client Architecture

- 100% Java (Java 1.7)
- Command Line Utility – AS4 Light/Minimal Client
- Conformance as per Flame Computing Statement of Use
- Secure/Encrypted Message Exchange
- Multiple attachments (SWA)
- Compression of attachments
- One Way Push and Pull
- Fully scriptable with flexible command line options

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Light Client API Architecture

- 100% Java (Java 1.7)
- Conformance as per Flame Computing Statement of Use
- Secure/Encrypted Message Exchange
- One Way Push and Pull via transmit() method
- Multiple Attachments (SWA)
- Attachment Compression
- Easy integration with existing JEE-based Application Servers including but not limited to
    1. Apache Camel™
    2. IBM Websphere^R Application Server
    3. Oracle WebLogic^R
    4. RedHat^R JBoss^R
    5. Cleo Harmony™

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Server Architecture

FMS Starter (AS4 ebHandler Profile)

- Single Business to Single Business

FMS Professional (AS4 ebHandler Profile)

- Single Business to Multiple Business

FMS Enterprise (AS4 ebHandler Profile)

- Multiple Business to Multiple Business

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Server Architecture Continued

- 100% Java (Java 1.7)
- AS4 ebHandler Profile
- Conformance as per Flame Computing Statement of Use
- Secure/Encrypted Message Exchange
- Push and Pull
- Compression
- Attachments (SWA)
- 1 Way MEP Support

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Server Architecture Continued

- Local Business Process Light Client Interface for Sending and Receiving
- Structured File Drop for Receiving
- Flexible Configuration
- Powerful Customisable Trigger Based Message Handling
  - JSON RPC
  - Script/Executable
  - JYTHON
  - Java Script Engine
- Configurable Logging
- Realtime Based Message Tracking and Reporting
- Flexible External Interface Setup
- Intuitive Private and Public Key Handling
- Configurable Schema Based Dictionaries

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Infrastructure

- Light Client Portable to any Java 1.7 JVM Based Client Platform
- Server Portable to any Java 1.7 JVM Based Server Platform
- Modern Operating Systems
- Supports Network Based Failover and Load Balancing Systems

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Interoperability

- RossettaNet RNIF 2.0 Petroleum Industry – 2006 to current
- ICANN gTLD compliant IETF Std 69 EPP Registry Registrar System – 2011 - current
- AS4 Informal Interoperability Testing and Demonstrations – 2011 – 2012
- SuperStream AS4 Gateway Induction – November/December 2013
- Drummond Certified AS4 4Q13
- Participating in Drummond AS4 4Q14 Certification Process
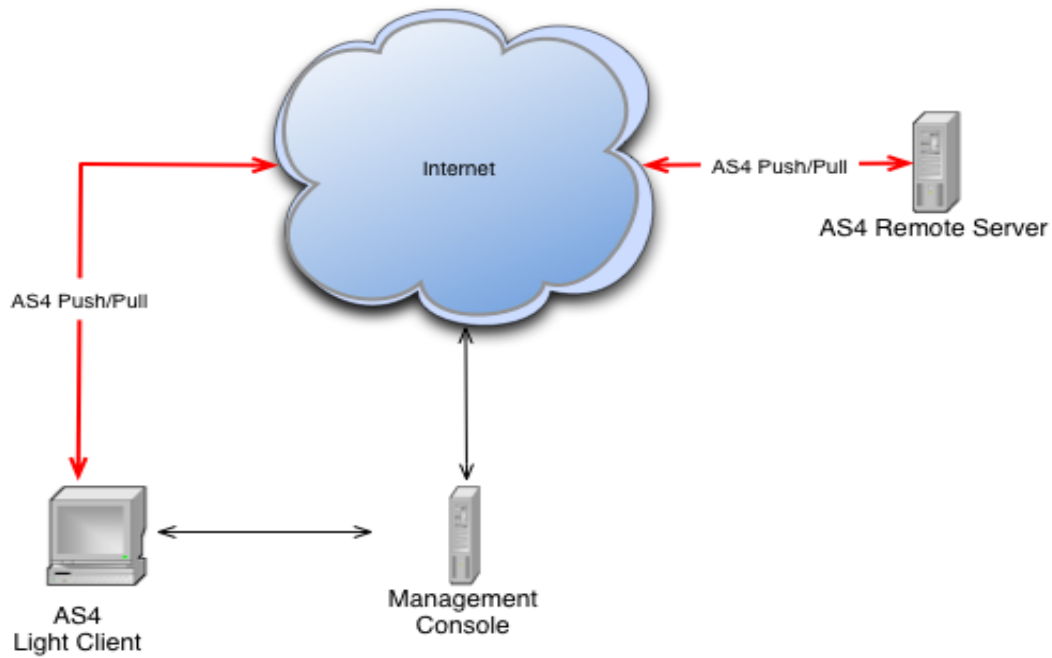
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Implementations

- RossettaNet Invoicing System – Petroleum Industry

- EPP Domain Registration System – ZACR country codes and gTLDs

- Drummond Group International AS4 ITQ Reference System

- ComplianceTest AS4 SuperStream ITQ Test System

- Ozedi AS4 SuperStream Gateway

- NAV/IKT AS4 Secure Digital Post Application

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Demonstration

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Q&A