



# e-Delivery target architecture

e-Delivery is one of the high level building blocks identified by e-SENS. It is an electronic communication suite in which end-users exchange messages via intermediary gateways. Recently e-SENS project agreed on the eDelivery target architecture which results from the work of the previous LSPs and combines their results. The aim of e-SENS is to establish common transport infrastructure suitable for the requirements of cross-border communication between eGovernment applications in different domains.

# Components of e-Delivery target architecture are: ebMS3/AS4

The communication protocol used for the electronic communication is the ebMS3/AS4 protocol. ebMS3.0 is built as an extension on top of the SOAP with attachments specification. The SOAP message contains the meta-data required to exchange the business documents in a secure and reliable manner, while the business payload is attached to the SOAP message. Multiple business payloads may be attached to a single message, and any format of the payloads is supported. AS4 is an open standard for the secure and payload-agnostic exchange of Business-to-business documents using Web services. In that respect the ebMS3 will cover the communication choreography and the AS4 will cover the technical information transport.

### **BDXL** (formerly SML)

The purpose of the BDXL is adding dynamic routing to the eDelivery. BDXL is a Service Location specification that is a next generation of SML (Service Metadata Locator) that is based on the mature underlying DNS infrastructure (the Internet Domain Name Service), but uses a different DNS record type (NAPTR-U as opposed to CNAME).

#### **SMP - Service Metadata Publisher**

The SMP adds dynamic capability look-up to eDelivery. This creates the possibility of having a flexible eDelivery community, where interoperability is maintained even if Gateways and End-Points are having different ambitions and requirements when it comes to Business Process-, eDocument- and Technical interoperability. The SMP also eases in release management, where new versions of Legal-, Process-, Semantic and Technical specifications and solutions can smoothly be phased in over a period of time.

#### **ETSI REM Evidences**

End-To-End technical non-repudiation can be added to the eDelivery using ETSI REM evidences (according to ETSI standard). Technical non-repudiation is created through required logging and











receipts from the Gateways and End-Points, with information about event issuer, sender and receiver.

## ebCORE Party ID

The addressing is using the OASIS ebCore Party ID Type specification provides a standard URN-based syntax for business partner identifiers and identifier types using the formally IANA-registered OASIS namespace. These are based on XML and message headers.



