



Your Choice for Integration and Business Solutions

HL7 B2B Gateway

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Agenda



- ❖ Overview
- ❖ Functionality
- ❖ Features
- ❖ Architecture



Overview



- ❖ A solution for integrating disparate healthcare systems by message exchange, routing and transformation
- ❖ Built on Glassfish ESB 2.1
- ❖ Uses only Open Source software

Functionality



- ❖ Receives HL7 messages from various FTP locations, transforms the messages and sends it to other FTP destinations
- ❖ The FTP locations can be either secure FTP or plain FTP
- ❖ Uses Open ESB HL7 encoder to decode the HL7 message to HL7 xml format
- ❖ Persists the parsed HL7 data in MySQL Database
- ❖ Moves the processed ftp file to processed folder or error folder appropriately in the ftp location
- ❖ Copies the FTP file to the local file system for auditing purpose
- ❖ Notifies errors to the appropriate recipients

Features



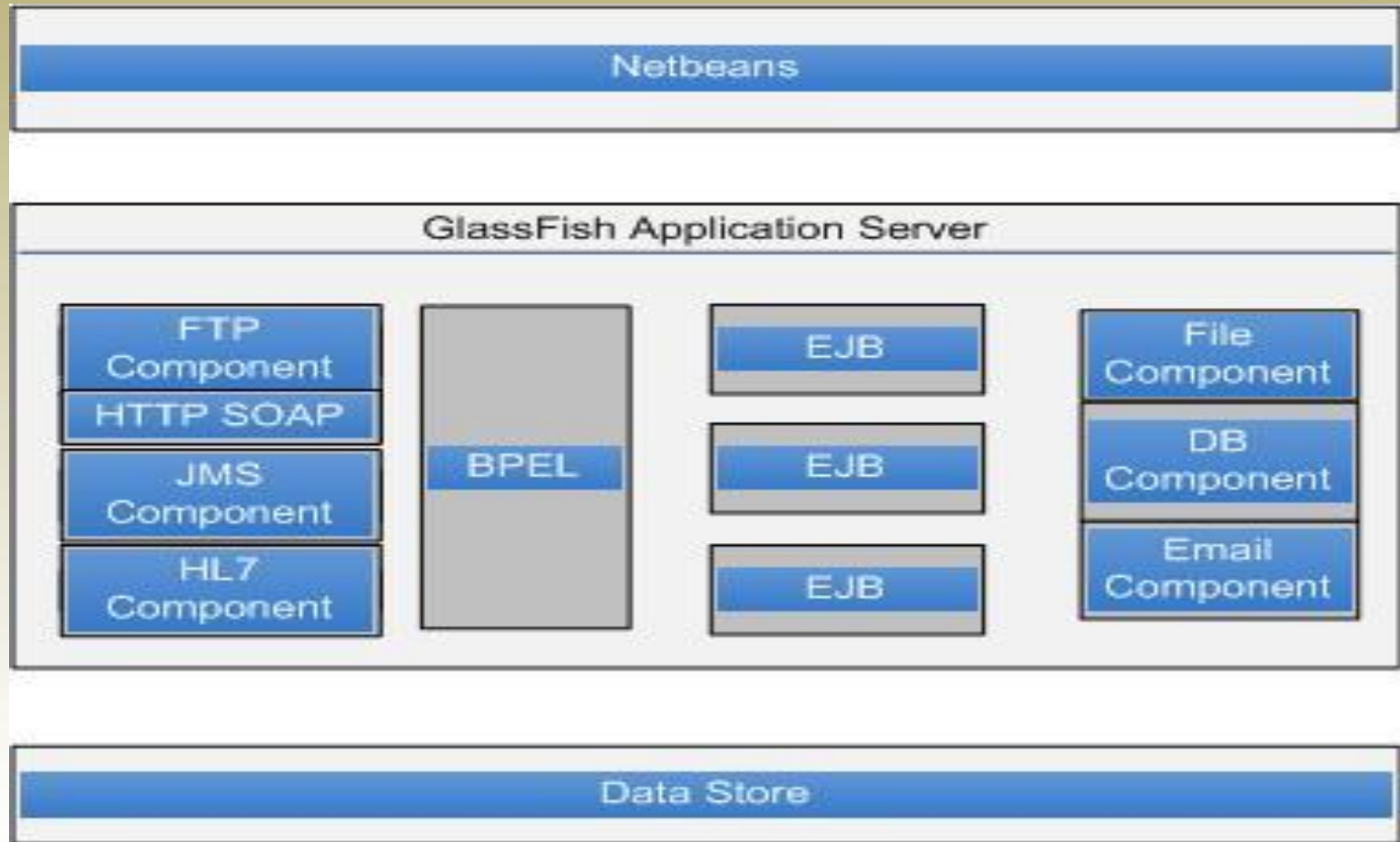
- ❖ Ability to configure the project to use various adapters like HTTP SOAP, JMS, File, HL7, etc
- ❖ Recognizes both batch HL7 messages and single messages
- ❖ The HL7 message files may be PGP encrypted
- ❖ Can support MLLP V1 and V2 protocols using HL7 Adapter
- ❖ Can support HL7 Versions 2.1 to 2.6 and HL7 V3.
- ❖ Can persist the parsed HL7 data in the database of your choice. Any JDBC supported database can be used
- ❖ Choice of data transformation using BPEL, EJBs or Plain Java
- ❖ Data mapping can be done using Netbeans' BPEL Mapper
- ❖ Notify the errors via Email
- ❖ Send attachments in Email

Architecture



- ❖ Developed Using GlassFishESB 2.1
- ❖ GlassFishESB Components which can Used: FTP BC, File BC, Database BC, Email BC, HTTP SOAP BC, JMS BC, BPEL SE, HL7 BC
- ❖ BPEL SE is used for orchestrating the process flow
- ❖ Open ESB's HL7 Encoder is used for encoding/decoding the HL7 message between HL7 delimited and HL7 XML formats
- ❖ EJBs are used for business and transformation logic
- ❖ Database BC is used to persist the data
- ❖ MySQL is used as the Data store

Components Diagram





Questions???



Thank You!

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