TripXML Overview

TripXML Integration Server

Thomalex Inc.

TripXML Definition

- Powerful server application for the Travel industry
- Standards-based transaction engine
- Real-time e-business travel solution
- Open infrastructure

Description

- Integrates with Travel supplier's reservation system
- Provides web services to the Travel supplier application.
- Web services based on the OTA (Open Travel Alliance) specifications for the Travel industry
- All connections supported by internet standards

Benefits

Service oriented and rapid deployment:

- Based on a reliable service-oriented architecture, scalable and optimized for maximum performance
- Introduces new technologies for travel partners integration over the Internet

- **Improves business relationships**
  - Simplifies transaction-based communication with travel business partners
  - Provides tools for more efficient internal enterprise application integration

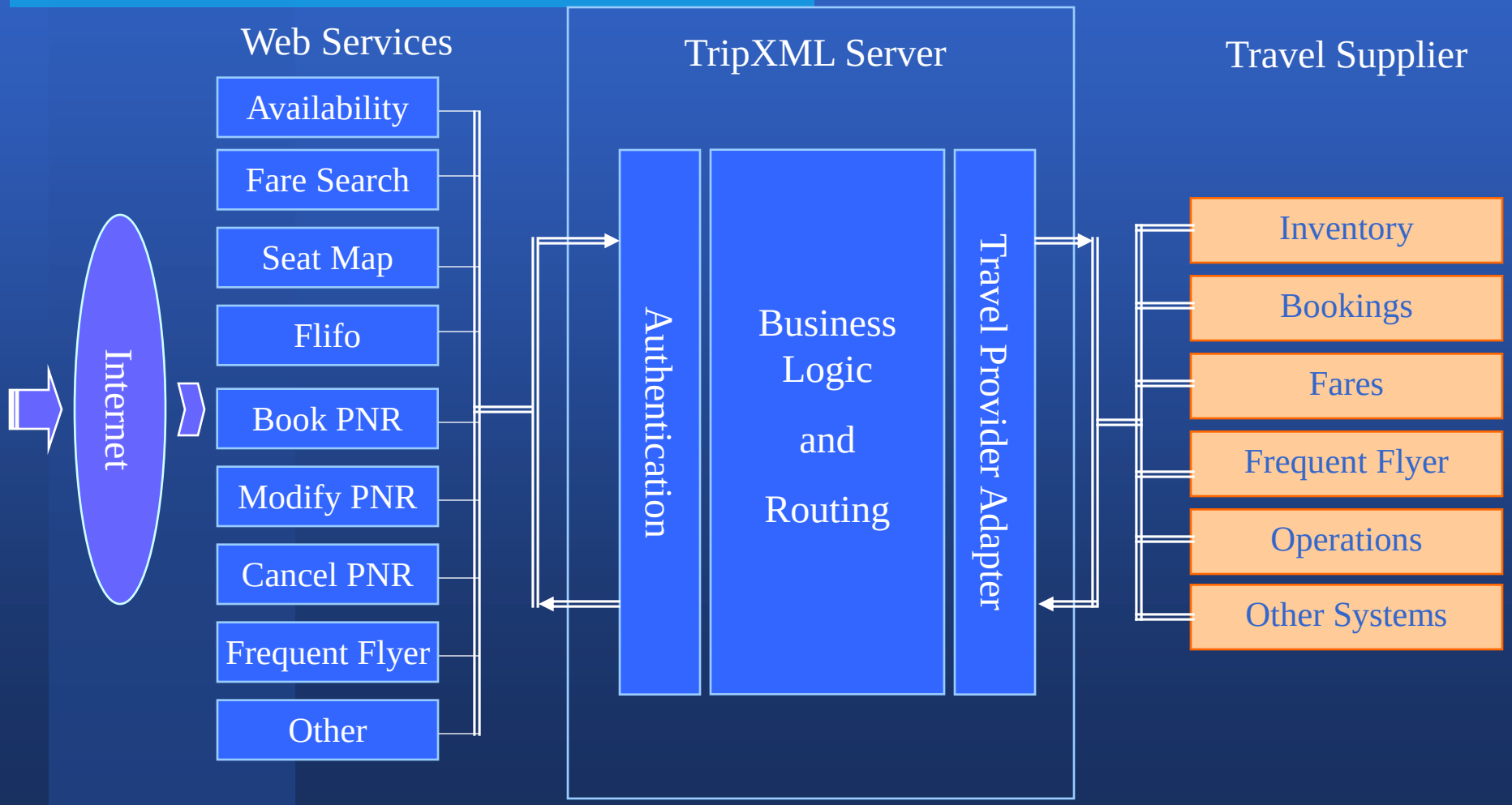
Benefits

- **Support for industry standards**:
  - Built to support travel and Internet standards.
  - Based on the OTA (Open Travel Alliance) standard specifications for the Travel Industry.
  - Project integration facilitated by the use of Web Services.
  - Provides support for XML, EDI and other proprietary data structures.
  - Support for standards translates into lower cost of ownership and greater return on investment.

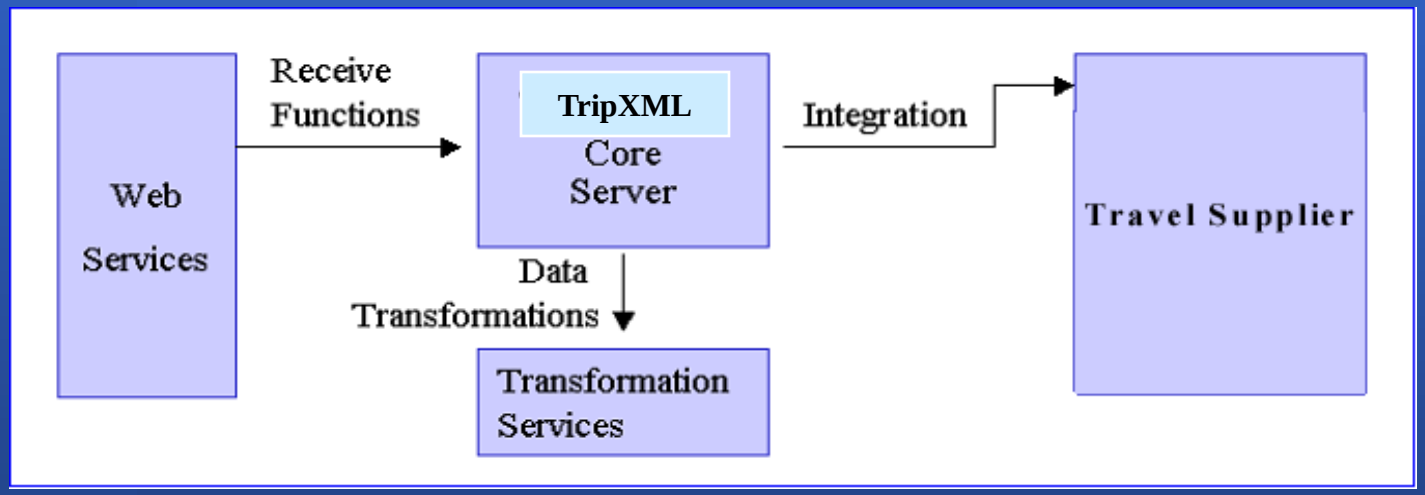
Technology and Standards

- Web Services
  - Future architecture for distribution of travel products
- .NET
  - The most advanced platform for internet developments
- OTA Specifications
  - Travel industry standard for information exchange

TripXML Integrated Architecture

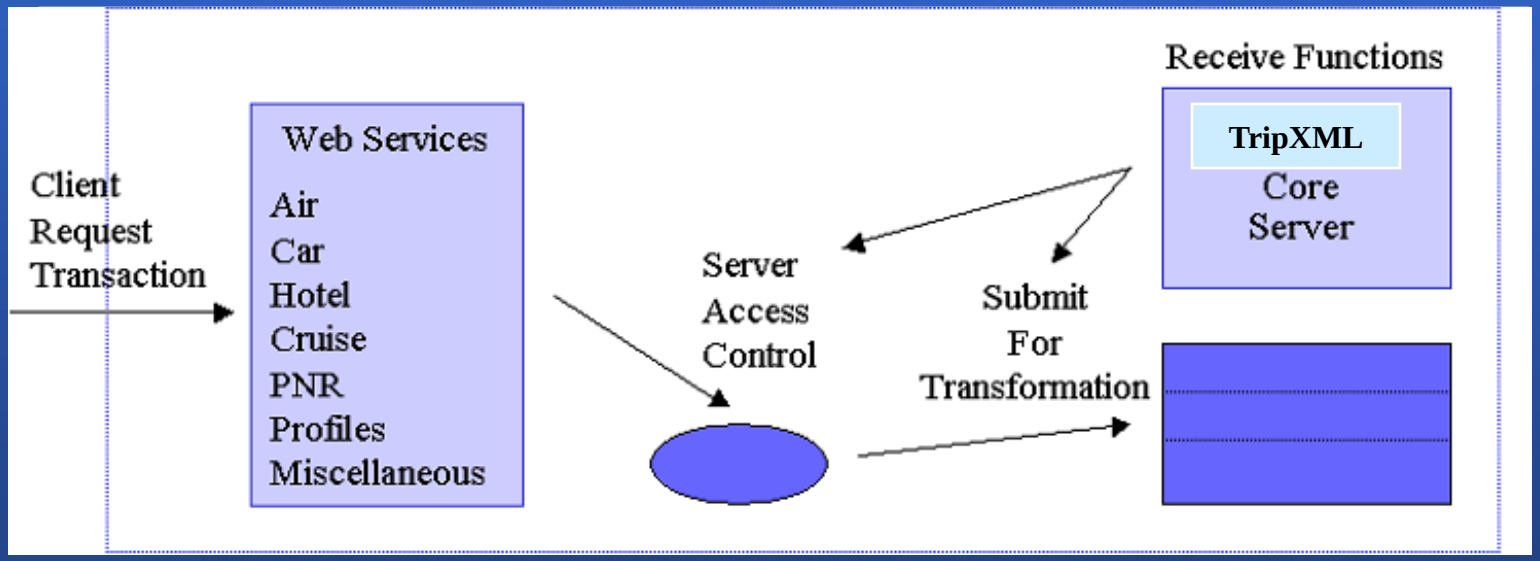


Architecture Overview



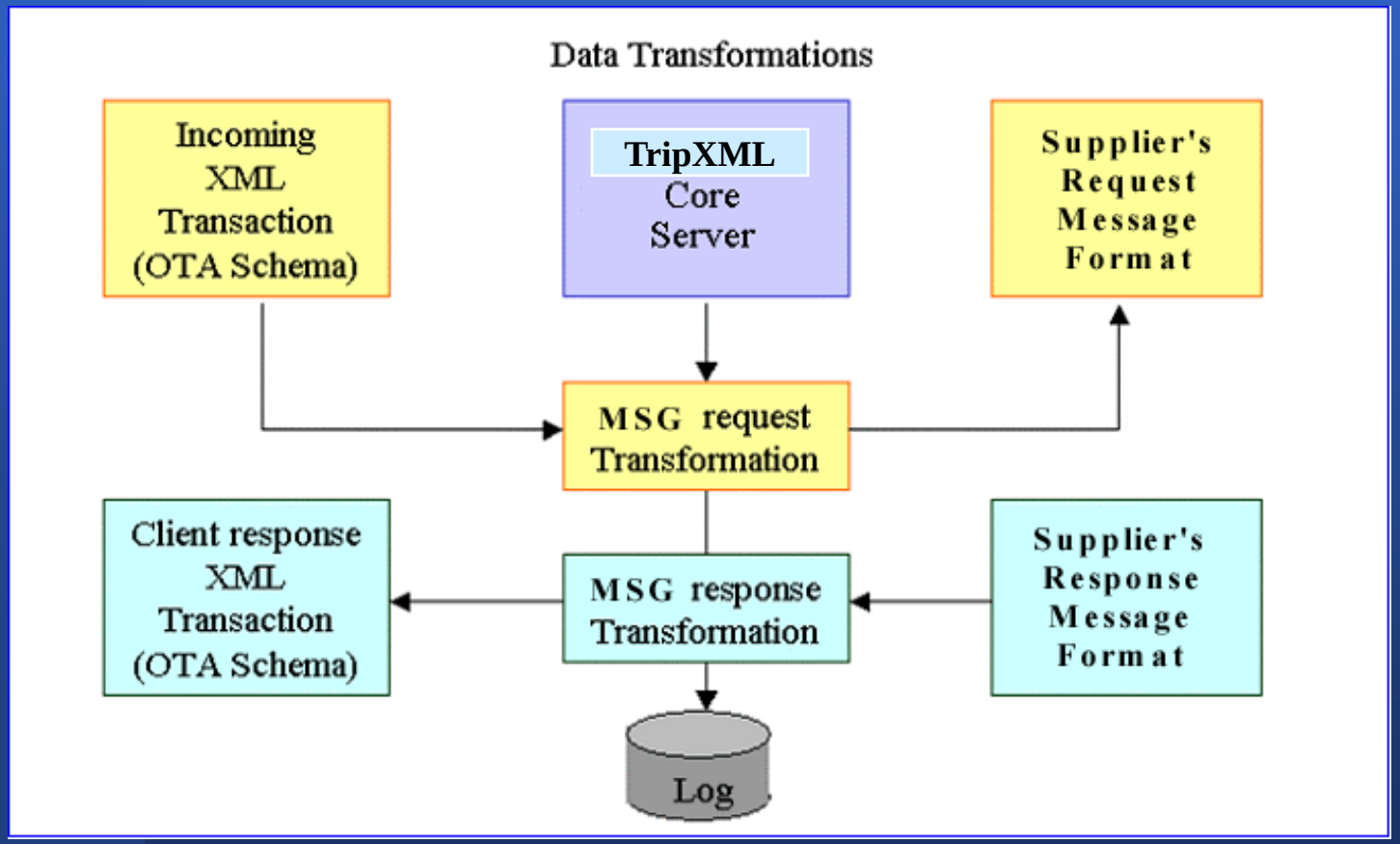
- Receive functions are the starting point for transactions submitted to the TripXML server.
- Data transformations modify the structure of these transactions
- Travel Integration enables the supplier connection, logging, transaction transmission and response receive.

Receive Functions



- Receive functions get client request transactions via the SOAP standard technology.
- Responsible for authorizing the access to the server application and submitting the received transactions to the right data channels.
- The TripXML Administration component is used to configure the authorization and client identification.

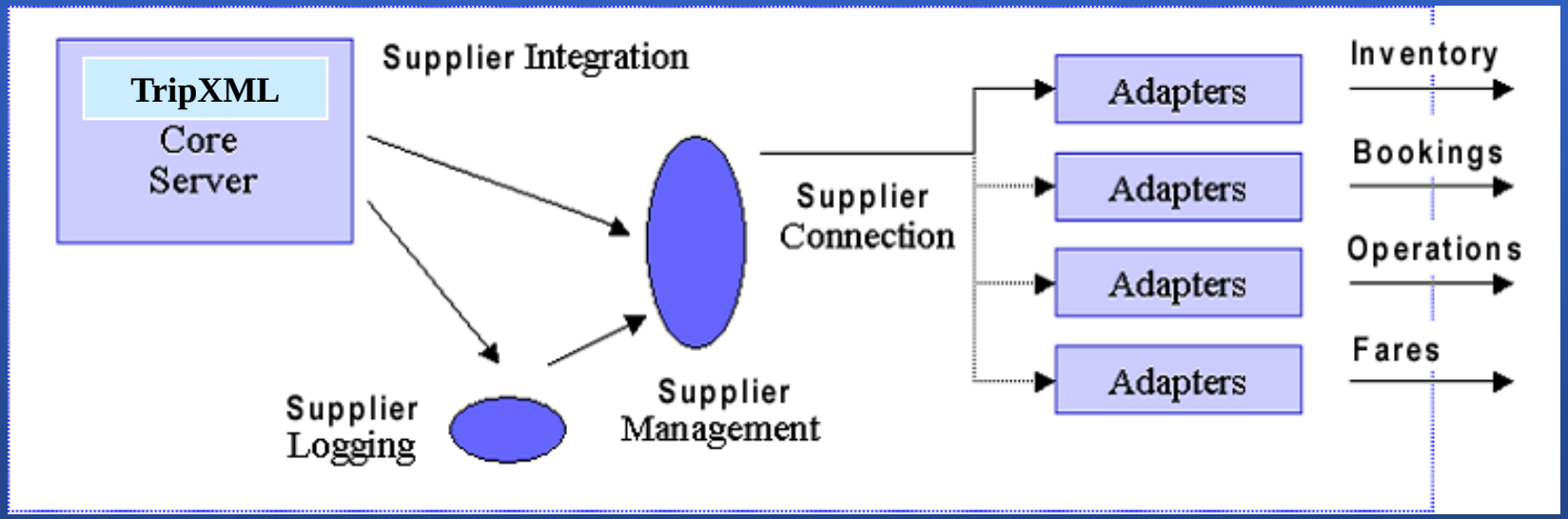
Data Transformation



Data Transformation

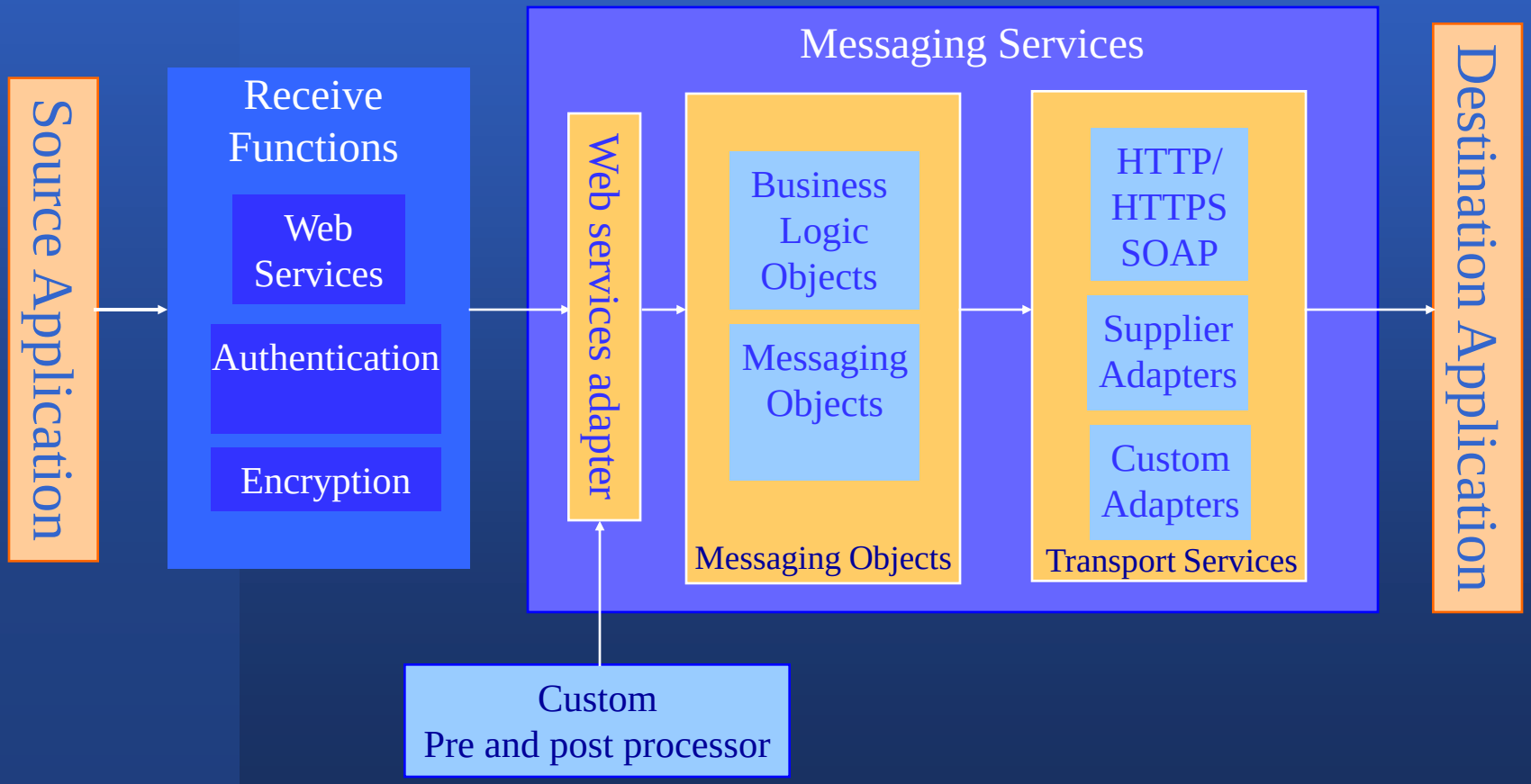
- Received transaction is transformed to conform to the schema of the target provider.
- Data transformation module receives incoming transactions that conform to the OTA standard specifications.
- Once transformed, the transaction is routed to the target supplier adapter.
- The supplier response is processed the same way on return.
- It is transformed to conform to OTA standard response message and sent back to the client application via the web services interface.
- The data transformation component can log the transaction to a transaction-tracking database for later analysis.

GDS Integration



- After the transactions are received and transformed to the format of the target supplier's system, they are delivered via the integration adapters.
- TripXML supplier adapters enable integration with the supplier's applications.
- The adapter is responsible for the logging, session management and all the communications between the server and the supplier's application.

TripXML Architecture



Performance and scalability

- Performance
  - Different components can run on different machines
  - Architecture optimized to use minimum file I/O and database access
- Scalability
  - Scaling vertically
    - Increase processor size and number of processors
    - Use faster disk system
    - On networks use smart switches in place of network hubs
  - Scaling horizontally
    - Use server groups and load balancing

Security Issues

- Access to Web Services controlled by userid/password
- Access to GDS supported by GDS login
- Support for SSL encryption (HTTPS)
- Implementation of WS-Security specifications for SOAP possible

Message Logging

- Tracks all messages that go through TripXML
- Messages can be archived
- Standard reports and customized reports
- Cab be used for statistics, debugging, research, etc…

Contacts

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