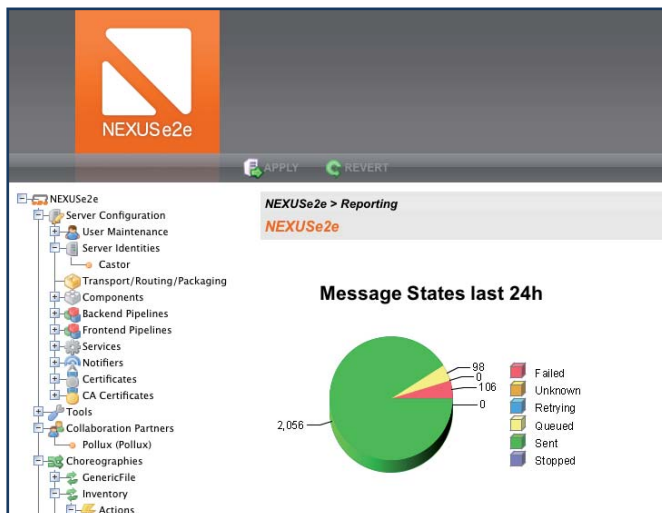




## NEXUSE2e.

The Open Source Business Messaging Server.



NEXUSE2e allows software applications to communicate with each other and share information. These applications may be in the same network (intranet), or separated by departmental, company, or even national boundaries. The direct communication between computers is quicker, the transaction is cheaper, and the data is more accurate.

### NEXUSE2e B2B Integration

The most common use of NEXUSE2e has been to connect two or more trading partners to integrate the supply chain. However, understanding the functionality and flexibility of this product will help you to understand how to fully connect with applications inside and outside of your organization.

### NEXUSE2e Business Messaging Server

NEXUSE2e server provides reliable business messaging using standard protocols (e.g. ebXML, SOAP, HTTP, SMTP, FTP) to integrate business processes that span multiple companies.

Because of its component-based architecture, it can be easily extended to support virtually any other protocol – standardized or proprietary.

The main use of NEXUSE2e is for supply chain integration e.g., for exchanging orders and other business documents in electronic form.

NEXUSE2E PRODUCT FEATURES

**Reliable Messaging**

- \_ Receipt of messages is confirmed through additional technical acknowledgement messages
- \_ Mechanism independent of communication protocol
- \_ Settings for maximum number of retries and interval between resends
- \_ Transaction logs reflect message confirmation status

**Orchestration**

- \_ Message exchange follows defined message sequence (so called choreographies i.e., business process)
- \_ State machine enforces message sequence/business transaction flow
- \_ System maintains a partner and process directory and validates messages accordingly
- \_ Communication with partners can follow different standards (transport, identifiers, security settings)

**Security**

- \_ Data encryption on the transport level (e.g. SSL, S/MIME)
- \_ Validation of partner/client certificates
- \_ Built-in certificate and key management

**Reporting**

- \_ Standard reports for message volume
- \_ Reports for identifying failed transmissions
- \_ Transaction and application log with flexible filtering
- \_ Customizable report look and feel

**User Interface**

- \_ Web interface compatible with standard web browsers (IE, Firefox, Safari, Opera)
- \_ Fine grained role model and user authentication

**Configuration**

- \_ Transaction oriented change management: multiple changes can be entered sequentially and committed at once or discarded
- \_ Export/import of system configuration in XML format for backup and replication

**Deployment and Operation**

- \_ JEE web application (distributed as a WAR file)
- \_ Bundled in-process database for testing
- \_ Compatible with most SQL compliant database systems (MS SQL Server, Oracle, DB2, MySQL, PostgreSQL, Derby etc.)

**Maintenance**

- \_ Easy extensibility through component oriented design
- \_ Online update mechanism (desktop version)

**Monitoring**

- \_ System availability check through HTTP and Web service interfaces (e.g. for load balancer integration)
- \_ Automatic system shut-down on database unavailability and restart on database recovery
- \_ Customizable error notification mechanism through email
- \_ Extensible error notification sub system for adding additional protocols (e.g. SMS)

**Available Communication/Messaging Protocols**

- \_ ebXML 1.0
- \_ ebXML 2.0
- \_ agGateway Web services
- \_ Email (SMTP, POP3, IMAP)
- \_ FTP/FTPS
- \_ SFTP
- \_ Web services

**Back-End/Legacy Systems Integration**

- \_ HTTP connector
- \_ Web services connector
- \_ JDBC connector
- \_ File system connector

**Out-of-the-box Data Validation and Conversion**

- \_ XML/XSLT/XSD/DTD
- \_ CSV
- \_ Plain Text
- \_ Compression/decompression (ZIP)

## NEXUSe2e Services

### Installation & Update

- \_ We install NEXUSe2e on your machines.
- \_ We install software updates for you, and upgrade your machines to the latest version of NEXUSe2e.
- \_ We offer remote or on site service.

### Integration & Consulting

- \_ We design and realize integration with your business partners based on your individual requirements.
- \_ We develop the connection to the interfaces of your backend systems, whether those are standardized or proprietary.
- \_ We realize the connection to your business partners, whether they make use of standardized or proprietary frontend protocols.

### Custom Development

- \_ Do you need a special functionality that NEXUSe2e does not provide, yet? We offer to develop individual features for you, that meet either open source or closed source criteria.

### Support (Standard)

- \_ We monitor the operation of your NEXUSe2e instances remotely.
- \_ We answer your questions and give you a hand on operational problems.
- \_ We assist you in using and configuring NEXUSe2e.
- \_ We help you to develop your own NEXUSe2e components.

### Support (Enterprise)

- \_ In addition to the standard support service you gain access to the clustering code of NEXUSe2e, which enables you to set up a scalable network of NEXUSe2e nodes.
- \_ With the clustering code you
  - distribute the load of your transactions to several machines, and in addition to that
  - ensure availability in case of failure

## NEXUSE2e Scenarios

### Supply Chain Integration

Order raw materials & utilities just-in-time from your vendors. Or offer your customers an automated interface for purchasing.

### Trading

Exchange electronic vouchers with your distributors/creditors and payment service providers.

### Logistics

Automatically hand over shipping documents to your transport service provider. Or as a carrier update your clients electronically, when the status of their shipment changes.

## Our Service

The direkt gruppe is committed to consultancy, implementation and ongoing support of complex IT infrastructures. We provide medium sized and big companies with the means to offer powerful services to their IT users and to continuously

### Integration Proxy/Adapter

Do you want use an existing integration interface of your back-end system or technical or organizational constraints might dictate its use? But the majority of your business partners use their own integration technology and they are all incompatible? Then NEXUSE2e can act as a reliable adapter und integrates all those partners' systems with your back-end.

NEXUSE2e is specialized in automated exchange of electronic documents. However, it is not limited to a specific domain or industry. Our customers rely on NEXUSE2e in agriculture (production and distribution), transport, and e-commerce.

improve these services. Therefore we provide tailored services and solutions based both on cutting edge technologies and methods and on standards.

More about NEXUSE2e: [www.nexuse2e.org](http://www.nexuse2e.org)