
warp it AG

Package for SPEC2000 XML



Overview – Industry Standard

Air Transport Association

SPEC2000
e-business standards

- Created by the airline industry
- Comprehensive set of e-business specifications, products and services
- Widely used by the world's airlines and suppliers
- Administered by the Air Transport Association (ATA)
- www.SPEC2000.com

Overview – Industry Standard

Air Transport Association

SPEC2000
e-business standards

E-Business Specification for Materials
Management

Revision 2012.2
(18th Revision)



AIR TRANSPORT ASSOCIATION

Air Transport Association of America, Inc.
1301 Pennsylvania Avenue, NW - Suite 1100
Washington, DC 20004-1707
USA

- Order Administration
quotation process, shipment,
customer invoice
- Repair Order Administration
- Warranty Claims Placement
- XML Representations
ATA_SparesOrder,
ATA_SparesOrderExc,...

Overview – Industry Standard

E-Business Specification for Materials Management

Revision 2014.1
(20th Revision)



AIR TRANSPORT ASSOCIATION

Air Transport Association of America, Inc.
1301 Pennsylvania Avenue, NW - Suite 1100
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- New Version for changes in 2014
 - PNR length to CHAR25
 - ACN length to CHAR10
 - INV/RIN length to CHAR25
 - New TEI DNS
 - Other changes
- New SAP certification end 2015

Overview – Industry Standard

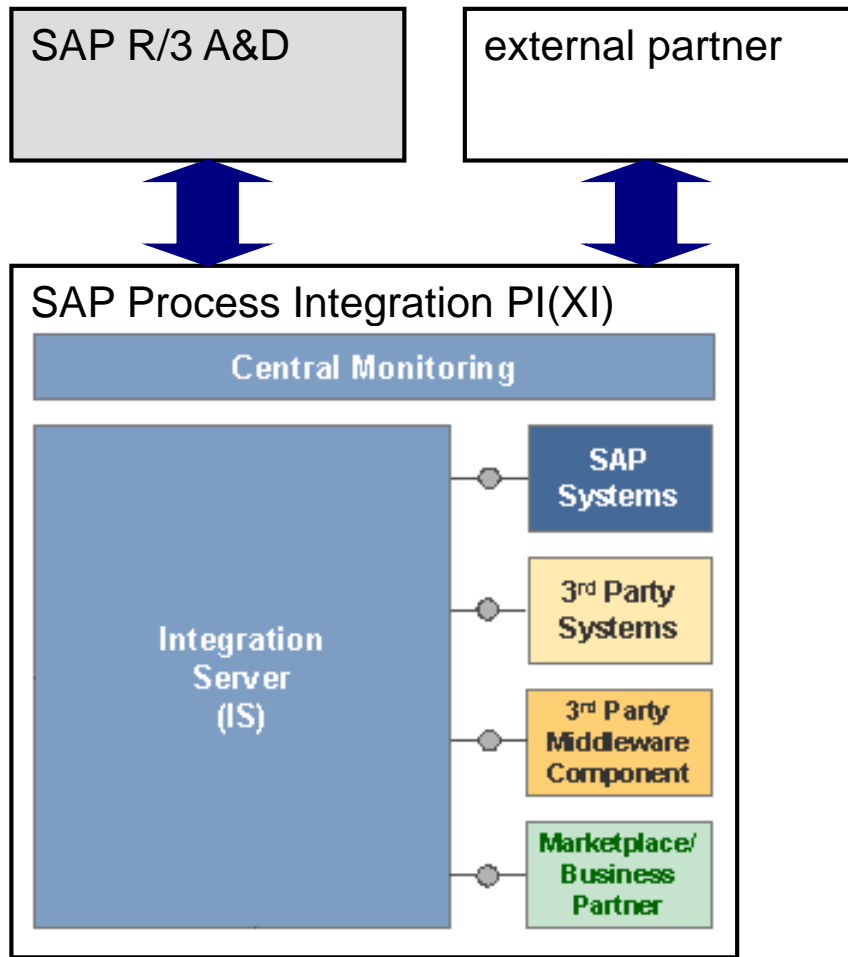
Air Transport Association

SPEC2000
e-business standards

XML Representations

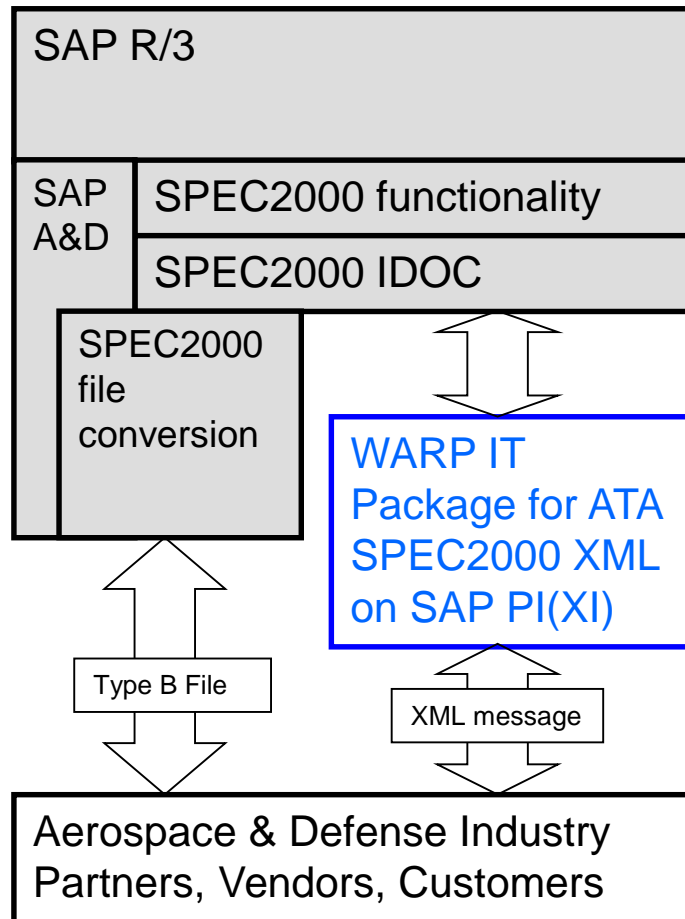
SPEC2000: CHAPTER	SPEC2000: MESSAGE	XML SCHEMA INITIAL TRANSACTION	XML SCHEMA RESPONSES or ACKNOWLEDGMENT
2	S1QUOTES	ATA_SparesQuoteRequest	ATA_SparesQuoteInterim, ATA_SparesQuoteFinal
2	S1STOCKS	ATA_SparesStockInquiry	ATA_SparesStockResponse
3	S1BOOKED	ATA_SparesOrder	ATA_SparesMessageAck
3	S1BOOKBK	ATA_SparesOrderBookback	
3	S1ORDEXC	ATA_SparesOrderExc	ATA_SparesMessageAck
3	S1POSTAT	ATA_SparesOrderStatusInquiry	ATA_SparesOrderStatusResponse
3	S1SHIPPD	ATA_SparesSupplierShipNotice	
4	S1INVOICE	ATA_SparesInvoice	ATA_InvoiceMessageAck
		ATA_CommonTypes	
		CSDD_MM	
		MM_CommonTypes	

System Landscape



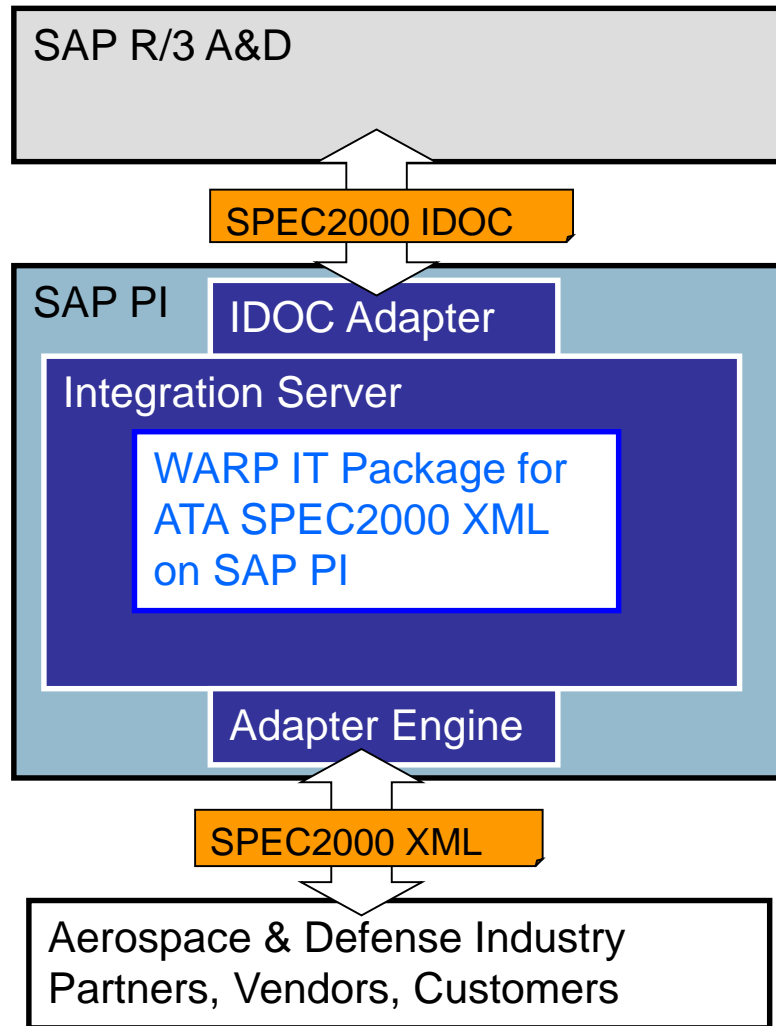
- Using SAP R/3 A&D solution
- Exchange messages via SAP PI(XI) which is part of SAP Netweaver™
Central development, configuration and monitoring of all business processes
- SAP standard adapters: File/FTP, HTTP, MQSeries, IDOC/RFC, 3rd Party Apps,...

Application Architecture



- SAP A&D Interface for ATA SPEC2000
- Build upon enhancements and developments in the SAP SPEC2000 functionality
- Concurrent use of SPEC2000 XML and SPEC2000 Type B for different partners

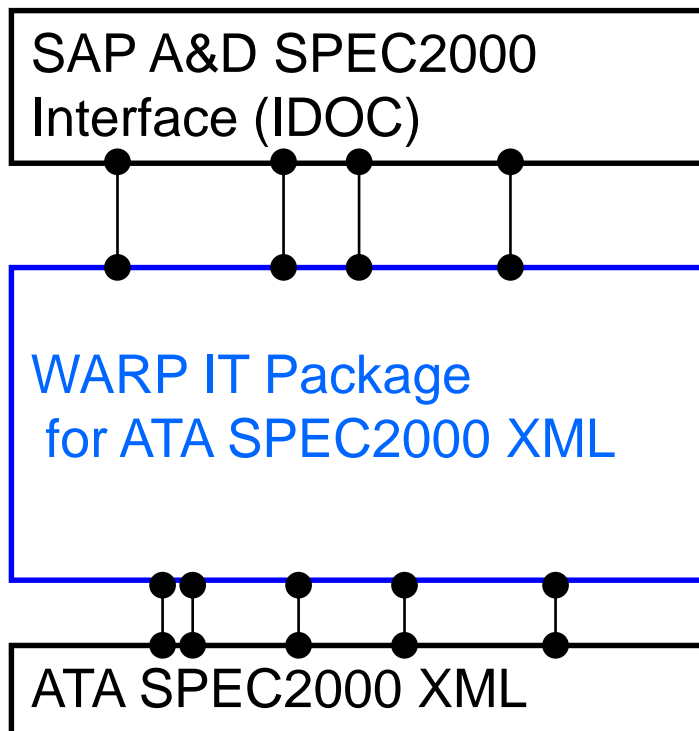
Application Architecture



- Data exchange via standard ALE interface and IDOC adapter
- Flow control for defined business processes
- Interface mapping between IDOC types and XML messages
- Field mapping and conversion between EDI and XML formats
- Adapter Engine sends and receives XML messages (HTTP protocol)

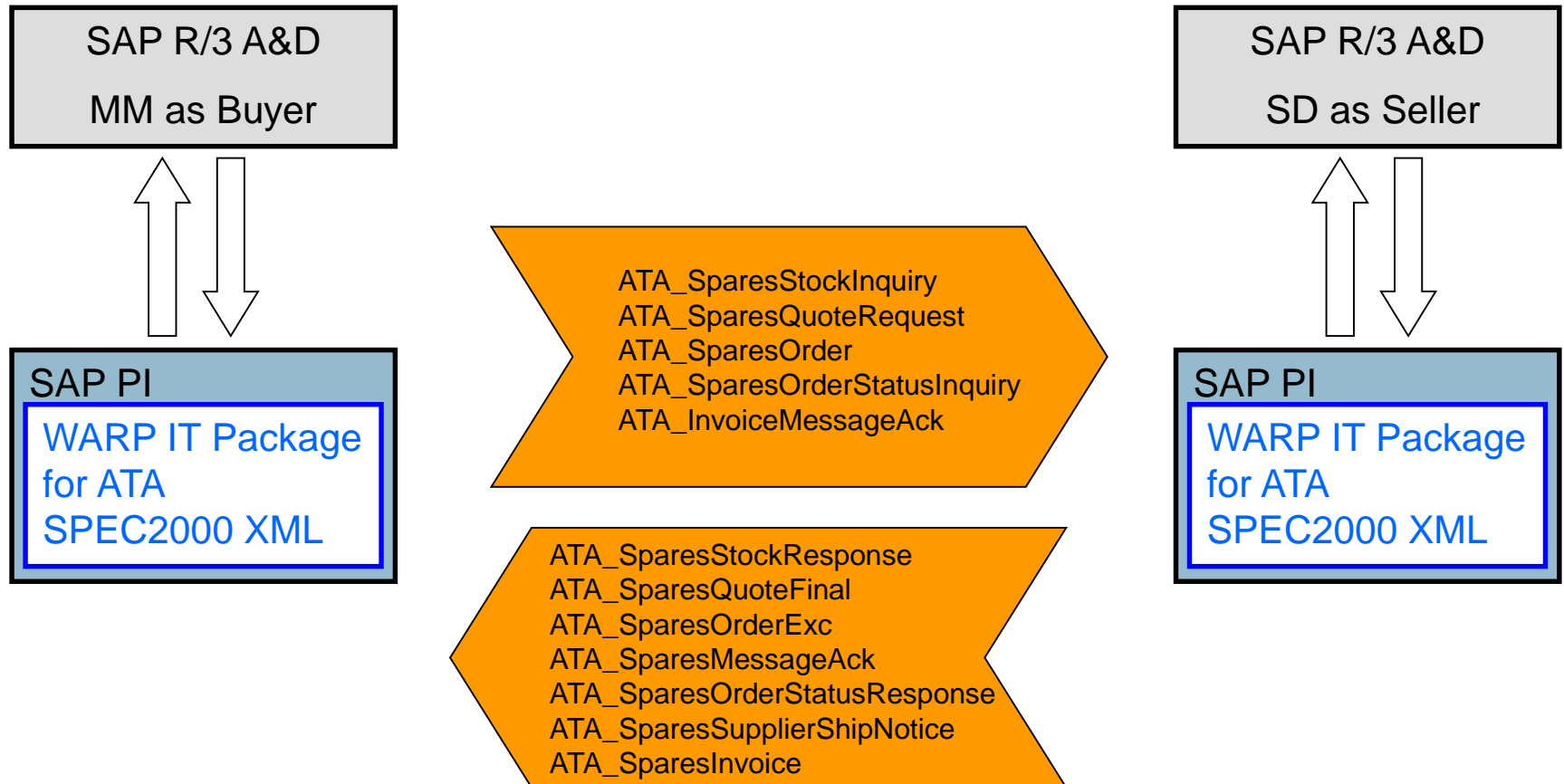
SAP PI(XI) Content

Following SAP PI Content packages are required

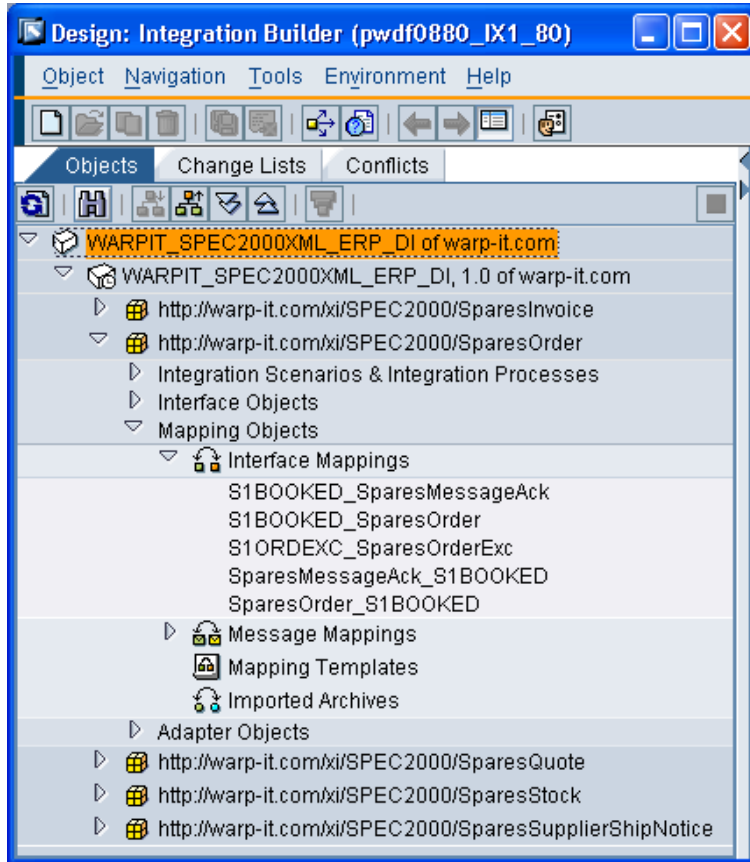


- SAP A&D Interface for ATA SPEC2000 defines interfaces (SPEC2000 IDOC) used in SAP A&D; → SAP Marketplace
- WARP IT Package for SPEC2000 XML provides mapping between interfaces and supports ATA processes → warp it AG or SAP Marketplace
- Interface for ATA SPEC2000 XML defines interfaces for ATA SPEC2000 XML messages; → warp it AG

Process Overview

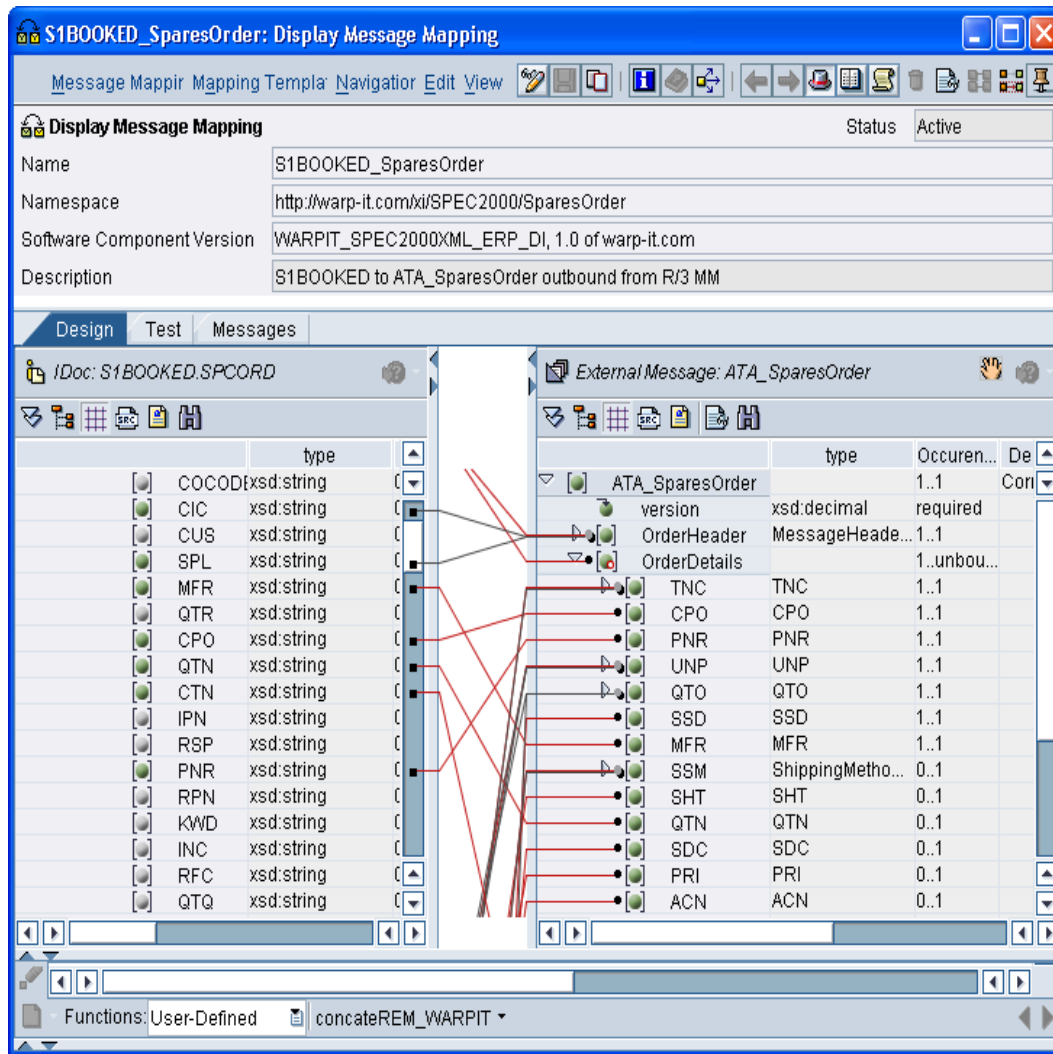


Package for ATA SPEC2000 XML



- Chapter 2
S1QUOTES: ATA_SparesQuoteRequest,
ATA_SparesQuoteFinal,
ATA_SparesQuoteInterim
S1STOCKS: ATA_SparesStockInquiry,
ATA_SparesStockResponse
- Chapter 3
S1BOOKED: ATA_SparesOrder,
ATA_SparesMessageAck
S1ORDEXC: ATA_SparesOrderExc,
ATA_SparesMessageAck
S1POSTAT:
ATA_SparesOrderStatusInquiry,
ATA_SparesOrderStatusResponse
S1SHIPPD:
ATA_SparesSupplierShipNotice
- Chapter 4
S1INVOICE: ATA_SparesInvoice,
ATA_InvoiceMessageAck

Package for ATA SPEC2000 XML



- Mapping example for S1BOOKED to ATA_SparesOrder

Demo – Outbound process

Create Purchase Order

Document overview on | Hold | Print preview | Messages | Help | Personal setting

NB Standard PO | Vendor: WMLF1 S2K Vendor | Doc. date: 18.09.2005

S..	Item	Material	Short text	PO quantity	O...	C Deliv. date	Net price
	10	S2KMAT1: TQMFR	Material for SPEC 2000	3 EA		18.10.2005	

(1) Customer creates purchase order in R/3 MM

(2) IDOC is sent through SAP PI and mapped

```
<?xml version="1.0" encoding="UTF-8" ?>
- <ATA_SparesOrder version="1.00">
- <OrderHeader>
  <CIC>SAPAG</CIC>
  <SPL>WMLF1</SPL>
</OrderHeader>
- <OrderDetails>
- <TNC>
  <TNC_Order>3</TNC_Order>
  <TNC_Item>4</TNC_Item>
  <TNC_Action>1</TNC_Action>
</TNC>
  <CPO>00032070010</CPO>
  <PNR>S2KMAT1</PNR>
  <UNP ICR="EUR" UNT="EA">78.00</UNP>
  <QTO UNT="EA">3</QTO>
  <SSD>2005-10-18</SSD>
  <MFR>TQMFR</MFR>
  <PDP>12.89</PDP>
  <REM>Information for vendor: Ship to
    XXXX</REM>
</OrderDetails>
</ATA_SparesOrder>
```

Monitor für verarbeitete XML-Messages

Status	Ack...	...	...	S...	Sender-Service	Se...	Sender-Interface	Empfänger	...	...	Empfänger-Interface
		18.12.18.12			SAP_QA8_051	urn:sap:BOOKED.SPCORD	SPEC2000_VENDOR	XIP http:S2			http:ATA_SparesOrder

(3) XML message is sent out from SAP PI

Capabilites

- Implementation and configuration of the package
- Customer specific enhancements for mappings and processes
- Support of available SAP A&D versions
- Support of future releases of ATA SPEC2000 standard
- Member of ATA XML Taskforce/Markup Working Group

Preview

- Recertification with newer XML Version
- Additional Adapter modules
- New Mappings and business processes

Contact

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