



XML Standards for Repair Administration

ATA e-Business Forum / June 6-8, 2011

Presented by
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Head of e-Business Development

Agenda

- 1 Motivation**
- 2 ATA SPEC 2000 Chap 7 & 8**
- 3 XML Data Exchange**
- 4 Implementation and Way Forward**

Electronic Communication with Airbus

Traditional Technology

Telephone



Fax



SITA/ ARINC
TELEX



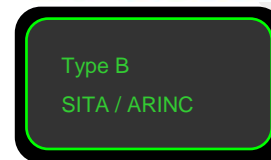
e-Mail

Advanced Technology

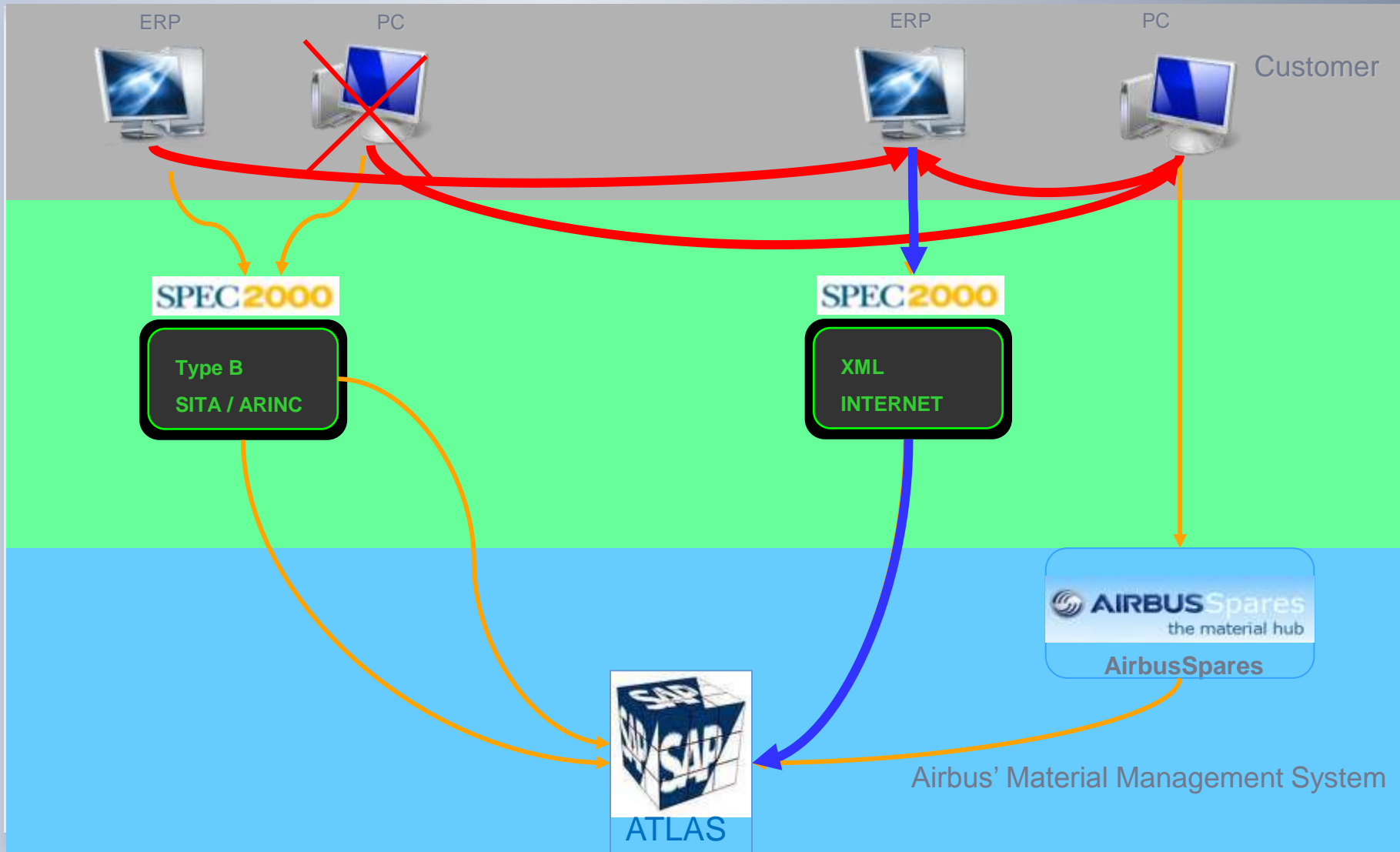
SPEC2000



SPEC2000



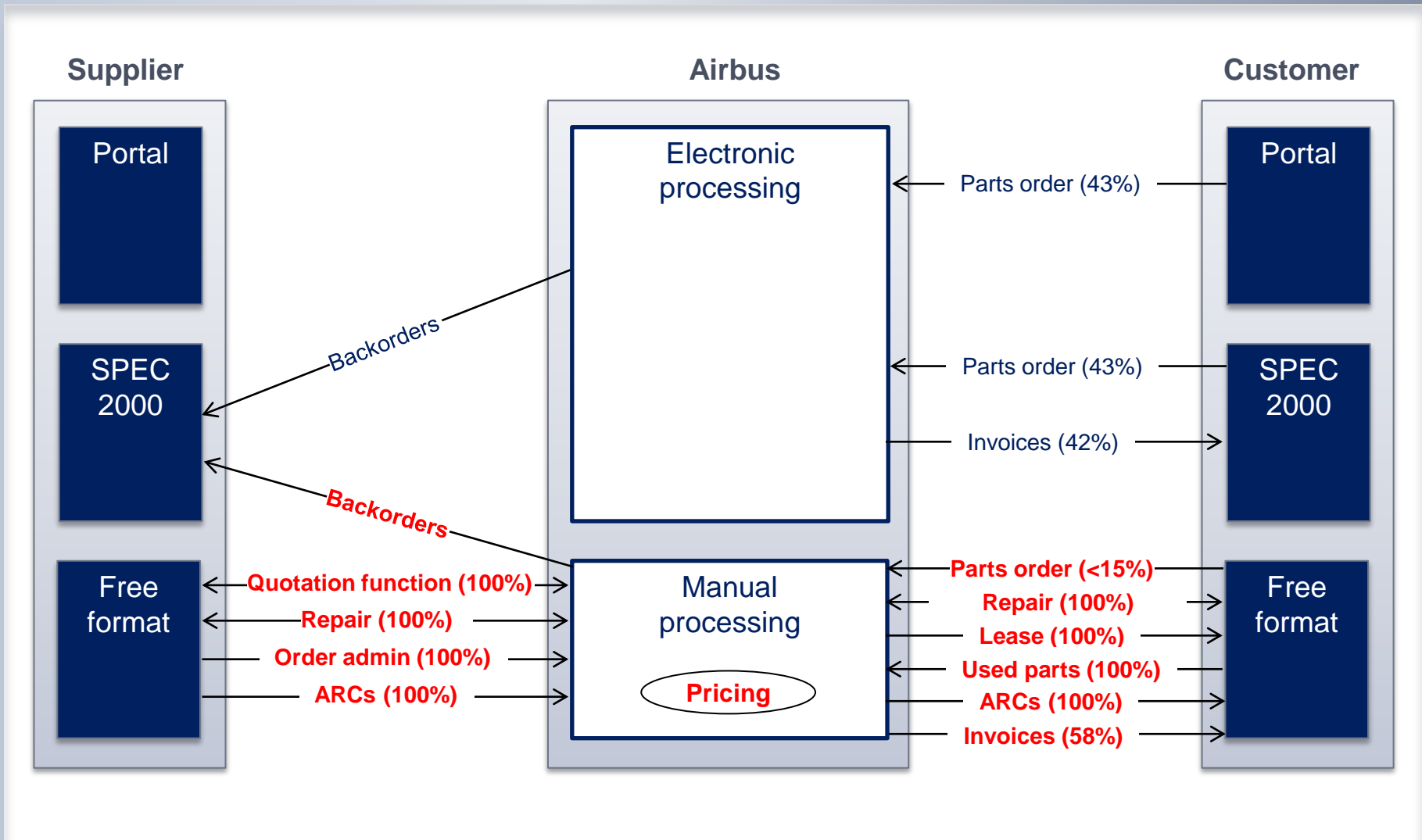
e-Business - today and tomorrow



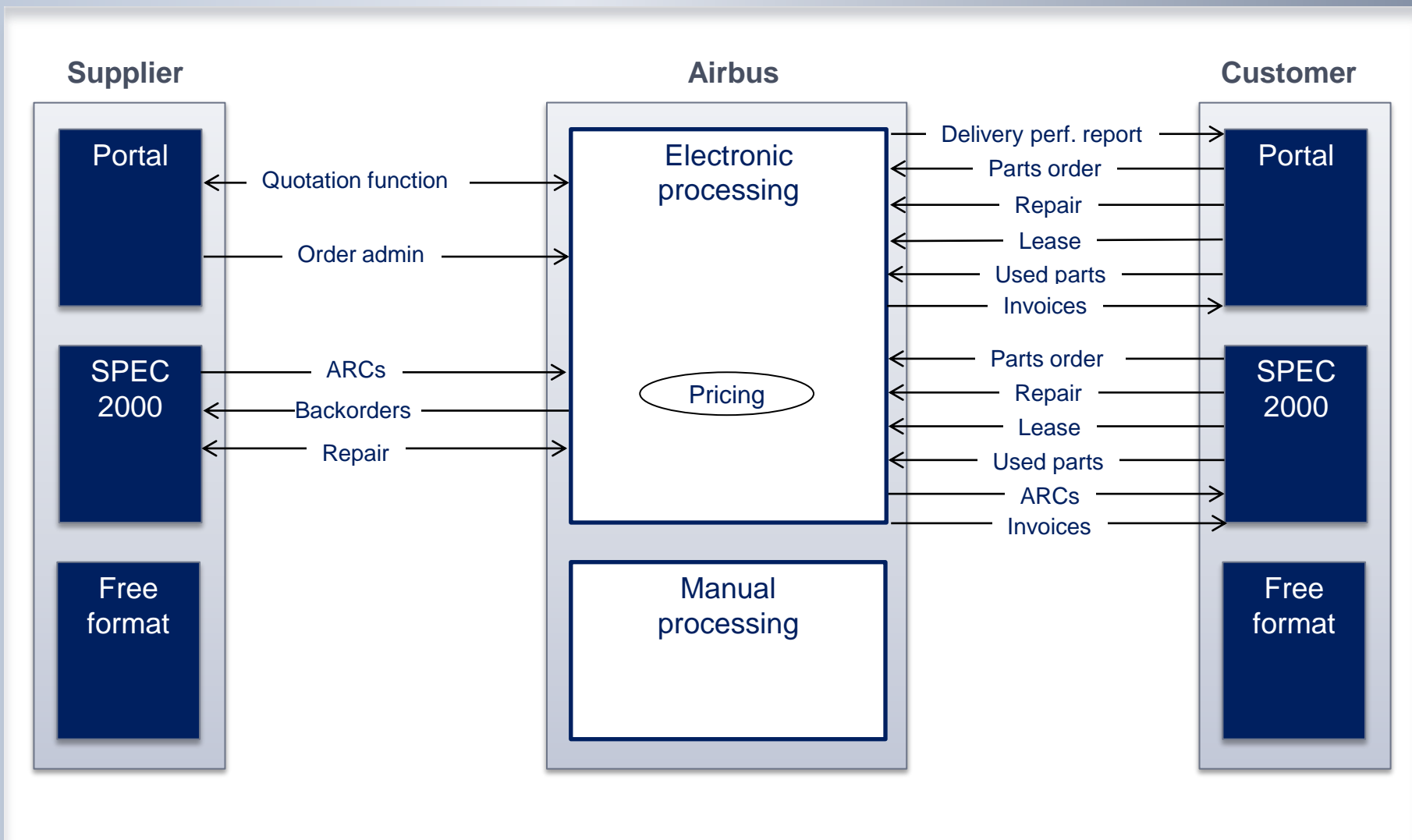
AIRBUS' project - Enhance & Optimize e-Business

- Implementation of additional S2K services
 - Implement S2K Chap 7 (XML) repair order administration with customers and repair shops
 -
 - Implement S2K Chap 13
 - Implementation of electronic Authorized Release Certificate (e-ARC) EASA Form 1
 - Implementation of digital signature
 -

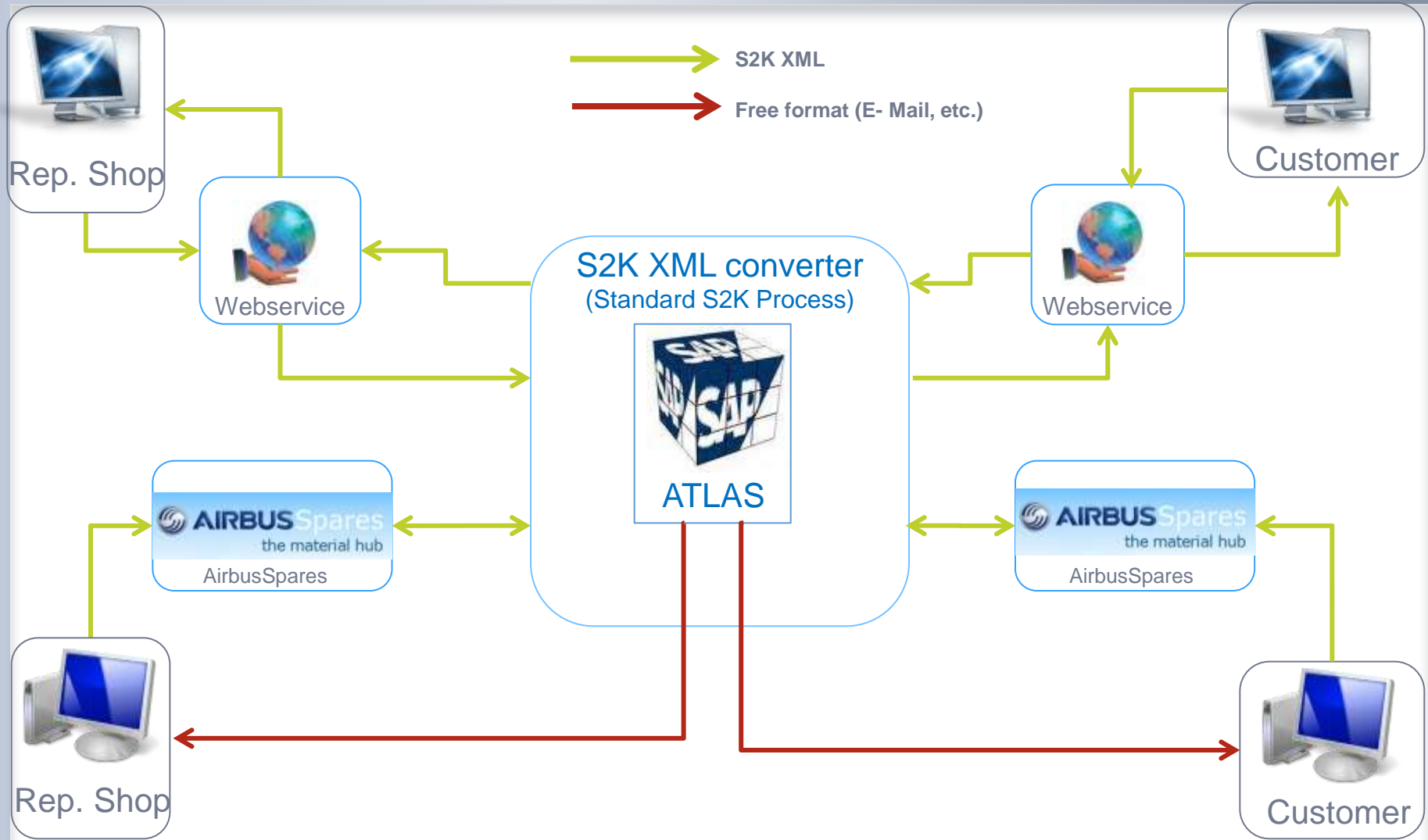
Project Rationale I - As Is Situation



Project Rationale II - To Be Situation



To Be Repair Solution



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ATA SPEC2000 Chapter 7 & 8

Airbus has asked ATA to initiate the review of the repair process by the Repair Administration Project Team (RAPT)

ATA Repair Administration Project Team (RAPT)

- Project Team including Airlines, MROs, manufacturers, software and service providers
- Review the current SPEC 2000 Chapter 7
- If necessary review SPEC 2000 Chapter 8

SPEC 2000 Chapter 7 Messages

		Customer	RepShop	Customer	RepShop	Customer
		Prio 1=High ; 3 = Medium ; 5 = Low(not disered)				
1a	Sends Request For Quote R1QTNREQ---->	5				
1b	Receives Request For Quote		3			
1c	Sends Interim Quote Response R1QTNINT--->		5			
1d	Receives Interim Quote Response			5		
1e	Sends Final Quote R1QTNXMT-->				1	
1f	Receives Final Quote					3
2a	Sends Repair Order R1CPOXMT--->	1				
2b	Receives Repair Order		1			
2c	Sends Acknowledgement of Repair Order R1CPOACK --->		1	?		
2d	Receives Acknowledgement			5		
3a	Sends Change to the Repair Order R1EXCXMT -->		1			
3b	Receives Repair Order Change Notice			1		
3c	Sends Acknowledgement of Change Notice R1EXCACK--->			5		
3d	Receives Acknowledgement				5	
4a	Sends Advisory that part to be repaired has been shipped R1CUSSSH --->	1				
4b	Receives Shipping Advisory from Customer		1			
4c	Sends Notice of Material Receipt R1MATRCP --->		1			
4d	Receives Notice that parts have been received by Repair Agency			1		
5a	Sends Notice of Discrepancy (between shipment of material and RO) R1DSPXMT -->		1			
5b	Receives Notice of Discrepancy			1		
5c	Sends acknowledgement of discrepancy message R1DSPACK --->			5		
5d	Receives acknowledgement of discrepancy message				5	
6a	Sends Inquiry of Status by Part Number R1PNRINQ --->	5				
6b	Receives Status Inquiry		5			
6c	Responds with status R1PNRRSP --->		5			
6d	Receives status response			5		
7a	Requests status by RO Number R1CPOINQ -->	5				
7b	Receives Inquiry request		5			
7c	Returns status of Repair Order R1CPORSP --->		5			
7d	Receives status response			1		
8a	Sends Teardown Report R1TDNXMT --->		3			
8b	Receives Teardown Report			3		
9a	Sends shipping Notice (Repaired unit) R1SPLSHP --->		1			
9b	Receives advisory: Repaired unit was shipped			1		
10a	Transmits invoice for repair services R1INVXMT --->		1			
10b	Receives invoice for repair services			3		
10c	Transmits invoice acknowledgement R1INVACK --->			5		
10d	Receives acknowledgement				1	
11a	Sends exception/change to the Agency's invoice R1INXXMT --->	5				
11b	Receives change request to invoice		5			
11c	Sends acknowledgement of invoice exception R1INXACK --->		5			
11d	Receives acknowledgement of invoice exception			5		

Data Elements in all Messages

#	Data element	TEI	M/C	RepShop M/C/N	Customer M/C/N
1.	R1QTNXMT		M	M	
2.	Customer Identification Code	CIC	M	M	
3.	Supplier Code	SPL	M	M	
4.	Quotation Request Number	QTR	M	M	
5.	Part Number	PNR	M	M	
6.	Unit of Measure Code	UNT	M	M	
7.	Quotation Quantity	QTQ	M	M	
8.	Repair Process Code	RPC	M	M	
9.	Quotation Number	QTN	M	M	
10.	Quotation Date	QTD	M	M	
11.	Keyword Name	KWD	M	C	
12.	Repair Price Amount	RPA	M	C	
13.	Price Held Firm - Time	PFT	M	C	
14.	International Currency Code	ICR	M	C	
15.	Price Type Code	PTC	M	C	
16.	Mean Shop Processing Time	MST	M	C	
17.	Manufacturer Code	MFR	C	C	
18.	Procurement Discount Percent	PDP	C	C	
19.	Repair Location Code	RLC	C	C	
20.	Return Authorization Number	RAN	C	C	
21.	Minimum Repair Quantity	MRQ	C	C	
22.	Acknowledgement Number	ACK	C	N	
23.	Remarks Text	REM	C	C	
	Certificate Type	CET		C	

Change to current usage of the data element

New data element in this message

Agenda

1**Motivation****2****ATA SPEC 2000 Chap 7 & 8****3****XML Data Exchange****4****Airbus' Implementation**

Draft Schedule RAPT

- **Survey usage, interest and need by end of June 2011**
 - Repair messages
 - Data elements
- **Map (reworked) Chapter 7 messages to XML July 2011**
- **Finalisation of new Chapter 7 → 3rd quarter of 2011**

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Way Forward Airbus

- We have initiated the development of a prototype with



Benefits

- **SPEC2000 for Repair Administration**
 - Reliability and timeliness of information
 - Reduction of administration cost
 - Time saving
- **We all will be winners**
 - Operators & repair shops



Thank You!

Questions



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