

Инфопульс Украина

SOPERA, Deutsche Post story



Deutsche Post

Handelsblatt

“Deutsche Post is regarded in the industry as a pioneer of the SOA philosophy.”



“Deutsche Post is and remains the company to beat when it comes to SOA.”



“With its SOA expertise, Deutsche Post is regarded as a best-practice company.”



MAIL	GLOBAL FORWARDING, FREIGHT	EXPRESS	SUPPLY CHAIN, CORPORATE INFORMATION SOLUTIONS	FINANCIAL SERVICES
<p>Deutsche Post </p> <p></p> <ul style="list-style-type: none"> ■ Mail ■ Communication ■ Dialog Marketing ■ Press Distribution ■ PARCEL Germany ■ Global Mail ■ Largest mail company in Europe ■ Leading quality 	<p></p> <ul style="list-style-type: none"> ■ DHL Global Forwarding ■ No. 1 in air freight worldwide ■ No. 1 in ocean 	<p></p> <ul style="list-style-type: none"> ■ Europe ■ Americas ■ Asia-Pacific ■ Emerging markets ■ Largest Express provider in Europe and Asia-Pacific 	<p></p> <p></p> <ul style="list-style-type: none"> ■ DHL Exel Supply Chain ■ Corporate Information Solutions ■ No. 1 in contract logistics worldwide 	<p></p> <ul style="list-style-type: none"> ■ Postbank AG ■ Pension Service ■ Leading German private customer bank ■ Together with BHW leading financial partner for private customers



in logistics worldwide

- Revenue > 63 bn EUR
- More than 500.000 employees
- 50% of business is outside of Germany

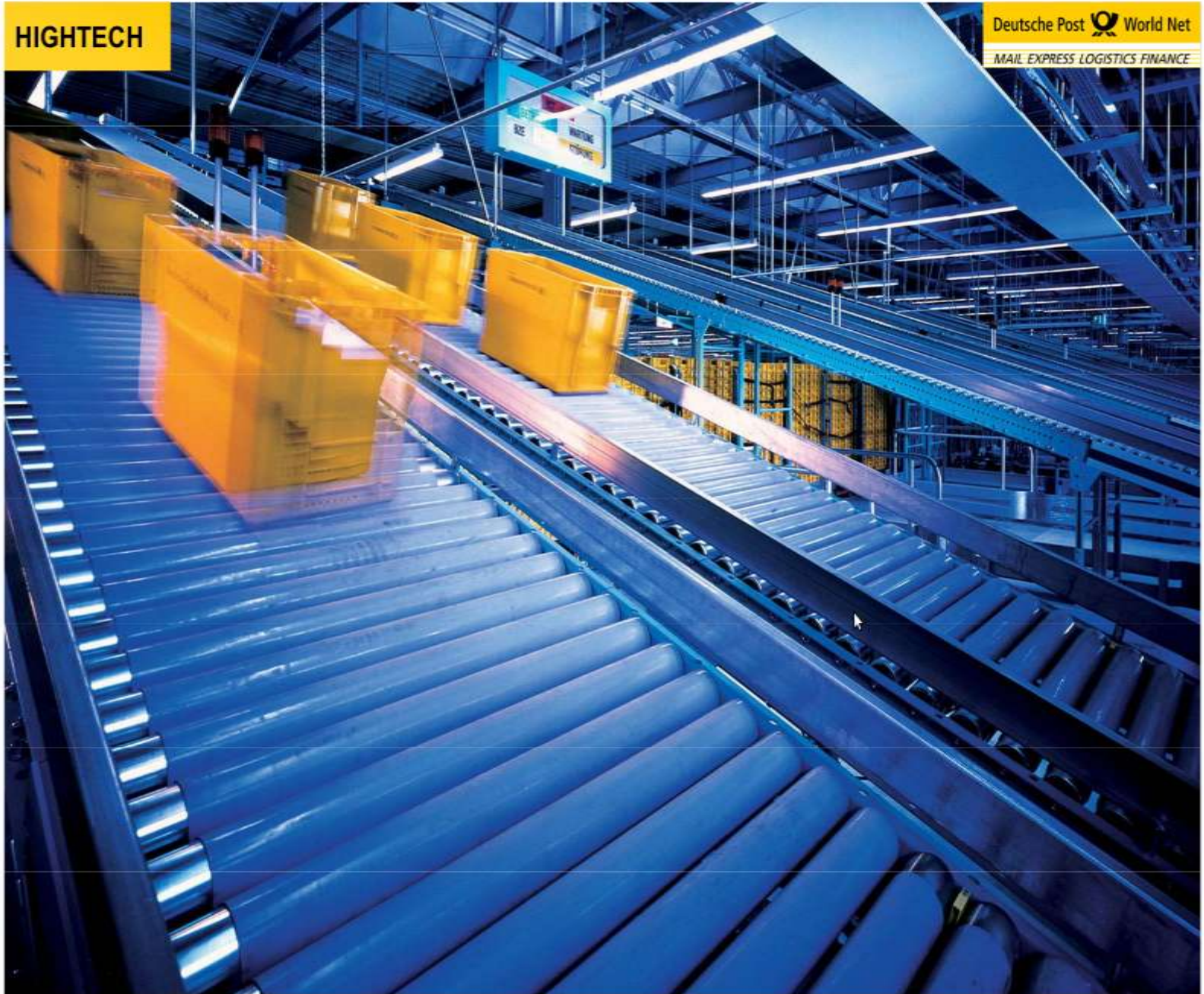
LOWTECH



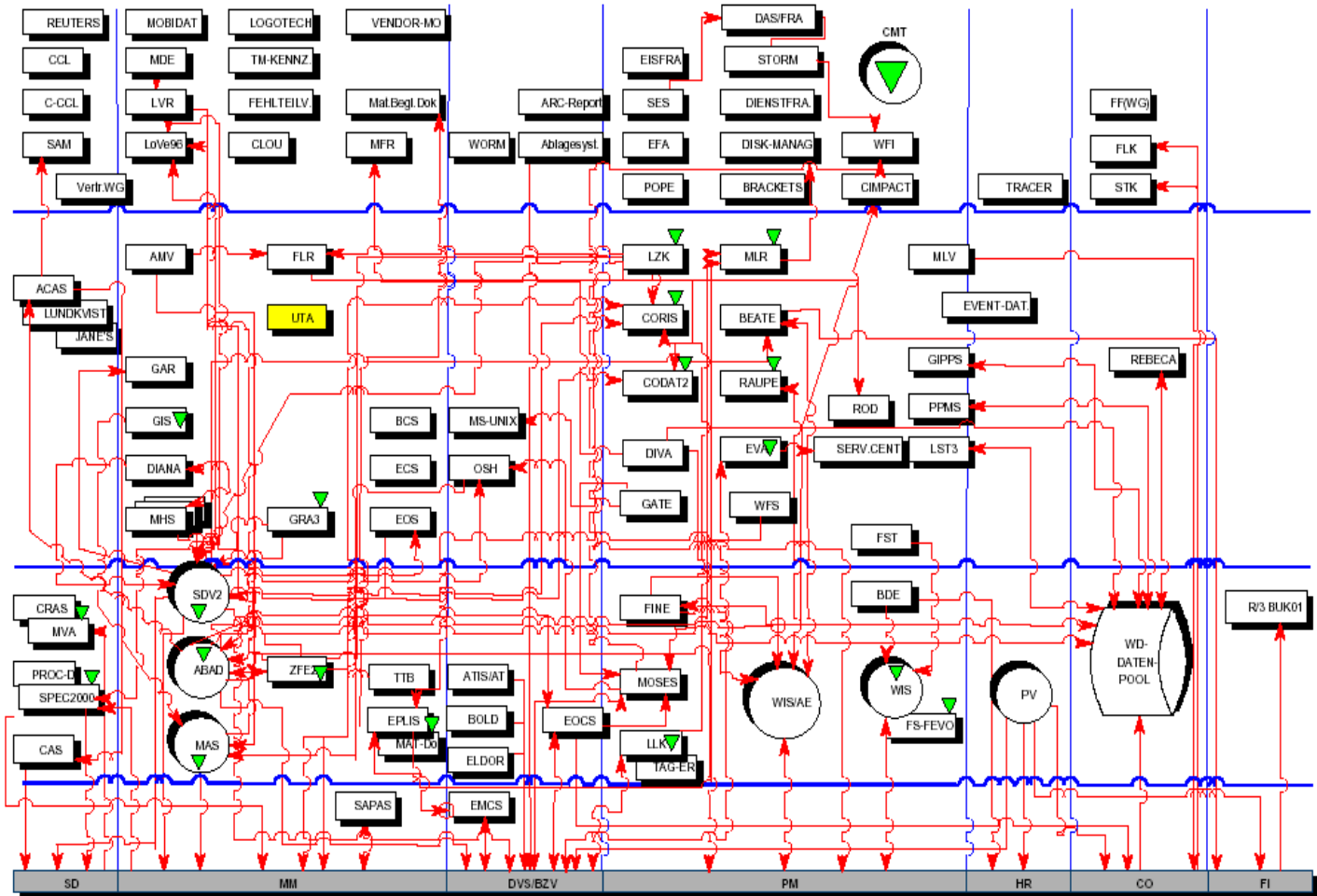
HIGHTECH

Deutsche Post  World Net

MAIL EXPRESS LOGISTICS FINANCE



Challenge



2000

2001

2002

2003

2004

2005

2006

2007

2008

Start

Acceptance

Methodology

Efficiency

IT 2

1999

Januar	Februar	März	April	Mai
1 Neujahr	1 Di	1 Di	1 Di	1 Di
2 Sonntag	2 Mi	2 Mi	2 Mi	2 Mi
3 Mo	3 Do	3 Do	3 Do	3 Do
4 Di	4 Fr	4 Fr	4 Fr	4 Fr
5 Mi	5 Sa	5 Sa	5 Sa	5 Sa
	6 Sonntag	6 Sonntag	6 Sonntag	6 Sonntag

Proliferation of island solutions

High redundancies

Increasing interface complexity

Unclear data responsibility

High maintenance and operating costs

Gaps in functional coverage

Lack of IT vision

Frag-mented IT responsibility

Increasing competition and liberalisation

2000

2001

2002

2003

2004

2005

2006

2007

2008

Start

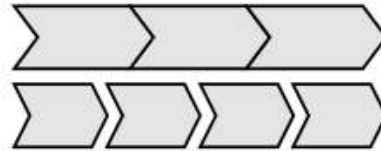
Acceptance

Maturity

Efficiency

???

Process architecture



- Business processes
- Business capabilities

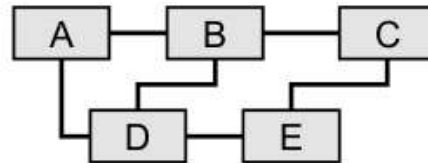
Logical service architecture



- Business domains
- Business services
- Business objects

Centerpiece of SOA/EAM

Application architecture



- Systems
- Applications/databases
- Connectivity

Infrastructure architecture



- Middleware
- Operating system
- Hardware

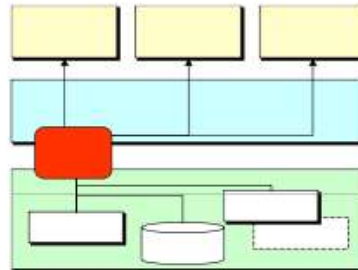
History of SOA in MAIL

	2000	2001	2002	2003	2004	2005	2006	2007
	Start		Acceptance		Methodology		Efficiency	
1 Governance & organisation	<ul style="list-style-type: none"> SOA concept at Deutsche Post MAIL Detailed domain definition Federal architectural governance MAIL 		<ul style="list-style-type: none"> Extending scope to DHL & Global Mail Federated governance DPWN Continuous improvement of domain model 		<ul style="list-style-type: none"> Robust SOA governance model Strong enterprise architecture team 			
2 Skills & capabilities	<ul style="list-style-type: none"> Development of first service-oriented applications Definition of service design process and standards 		<ul style="list-style-type: none"> Automated service design process Widely extended service portfolio Internal consulting unit implemented to consult SOA projects 		<ul style="list-style-type: none"> Consistent service design processes Strong service modelling methodology 			
3 Applications & architecture SOA framework	<ul style="list-style-type: none"> Proof of concept Service Backbone (SBB) Service Backbone goes live Data integration functionality added 		<ul style="list-style-type: none"> Continuous functional enhancement of SOA platform Development of SOPERAs as best-of-breed SOA framework 		<ul style="list-style-type: none"> Capable, proven ESB Flexible SOA technology framework (SOPERA) 			

SOPERA vision: Decouple logical integration from integration technology



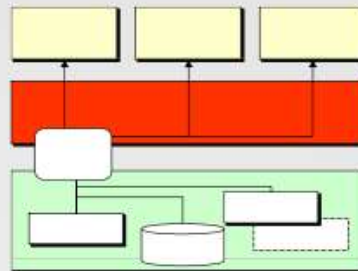
Business integration (logical level)



- Business-driven definition of logical interfaces, e.g., "GetCustomerData"
- Independent of IT infrastructure

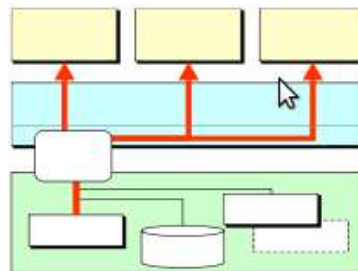
Integration infrastructure

SOPERA



- IT infrastructure and SLAs for integration
- Providing
 - Access to services
 - Performance
 - Availability

Message transport (technical level)



- Transport raw IT messages
- Translate between different network formats

Lessons learned on SOA and EAM

- **Focus on semantic integration, not on technology** –
Harmonise business terms, definitions and usage, since no technology platform you can buy will help to solve these fundamental business issues
- **Let business drive the integration effort, not IT** –
But use SOA to bridge the gap, providing a common language between CIO and CEO/COO/process owners
- **You cannot buy SOA; it is (enterprise architecture) management** –
Actively manage the evolution of your service portfolio and lifecycle to gain long-term architectural stability
- **Protect existing assets, move to SOA in an evolutionary way** –
Exploit domain structure to decouple modification cycle times in your application landscape

Milestones

1999

- Стратегическое решение - SOA

2001

- Представление платформы

2006

- 200+ сервисов, 5000+ операций в «продакшн»

2007

- Open Source & SOPERА GmbH



Заказчики и партнёры

Клиенты



Партнёры

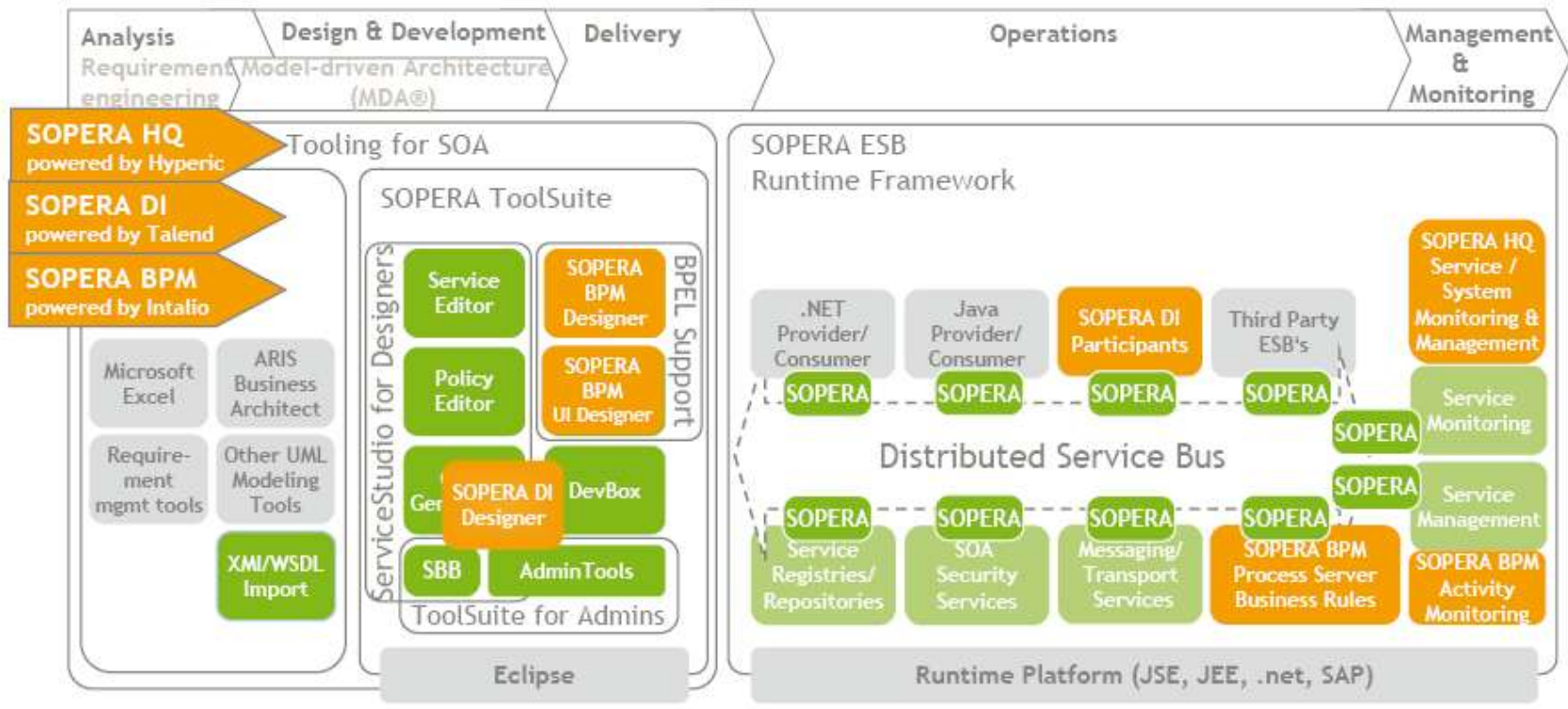


Технологическое сотрудничество



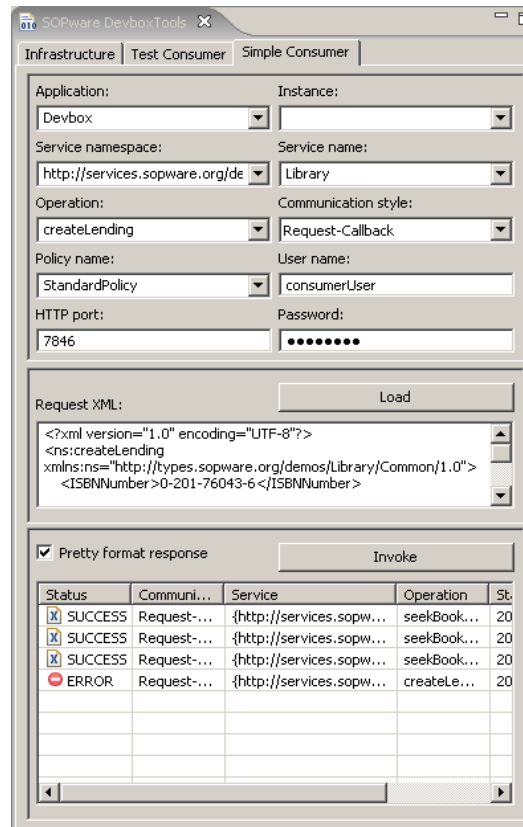
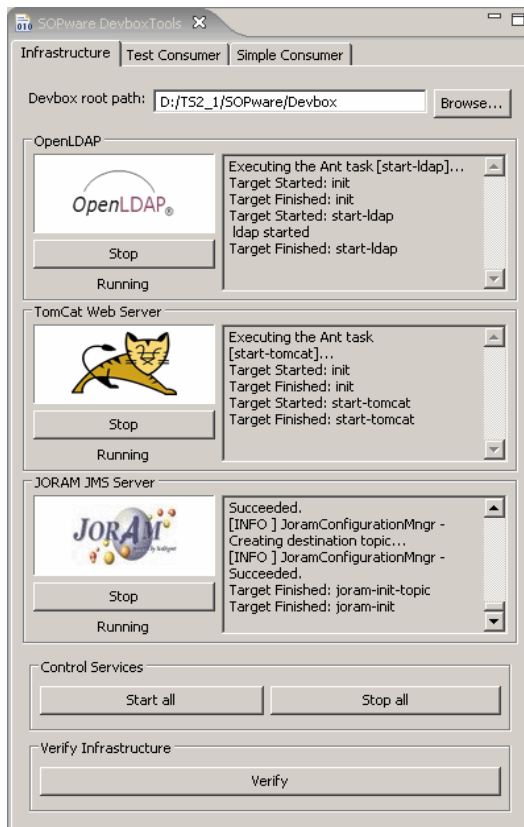
SOPERA ASF

Built of “world-class” components



SOPERA ASF ToolSuite

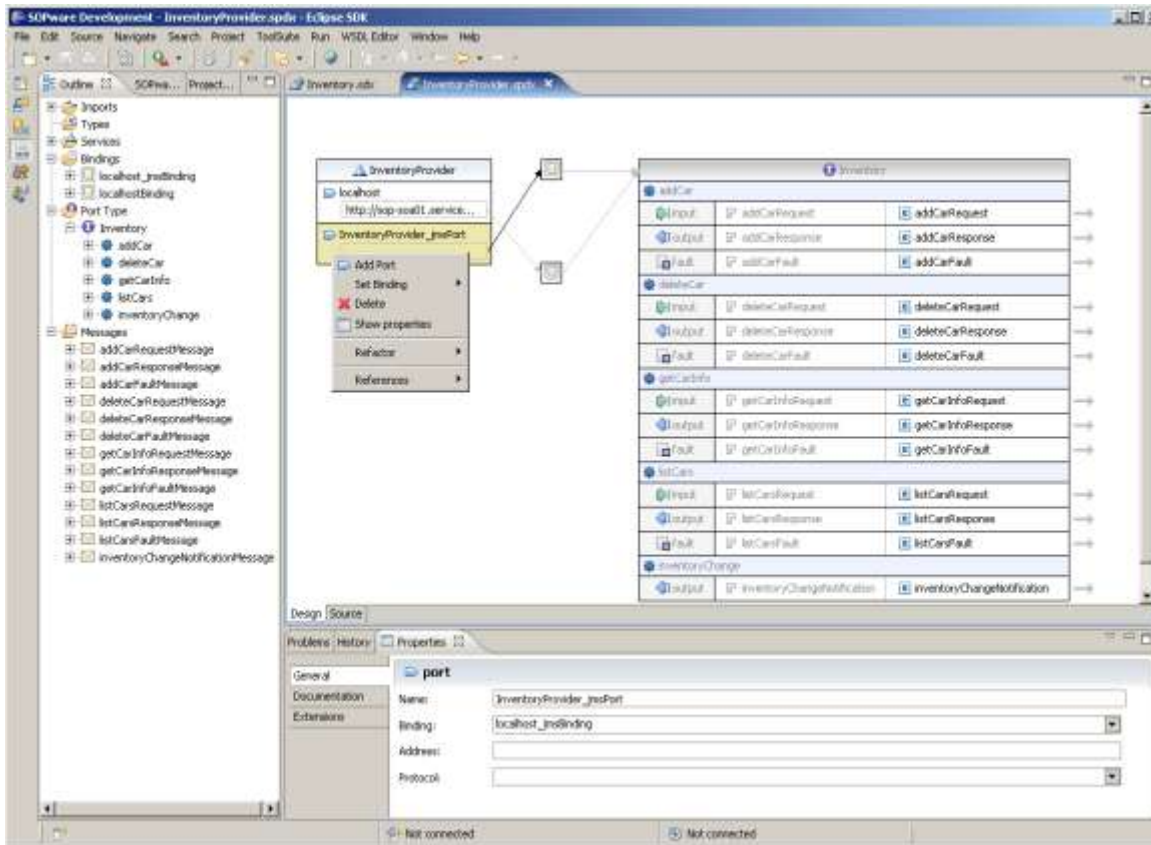
Development Box



- Infrastructure
 - LDAP, Tomcat, JMS
 - Technical Service Participants
- Simple Consumer
 - Manual Tests
- Test Consumer
 - Batch-driven
 - For Regression Tests

SOPERA ASF ToolSuite

Service Editor



- Description Editor
 - Service Interface
- Provider Editor
 - Service Endpoint



SOPERA ASF ToolSuite

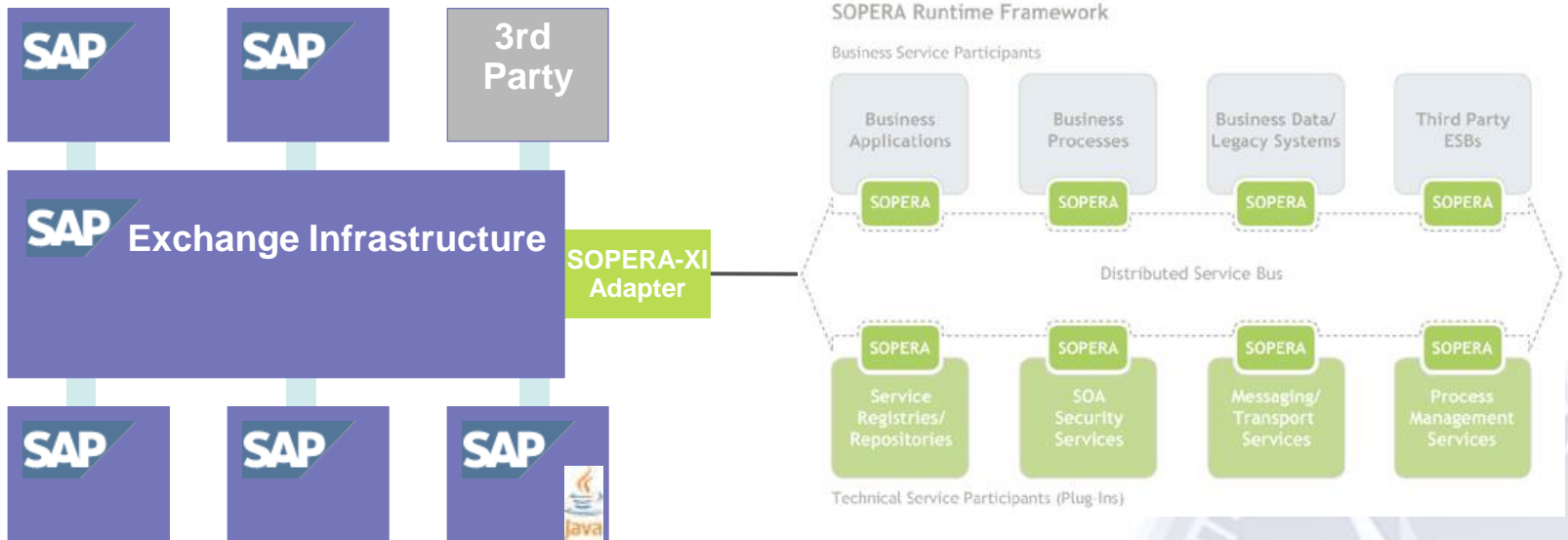
BPEL Process Editor

The screenshot displays the BPEL Process Editor interface. The main workspace shows a process diagram for 'purchaseOrderProcess'. The diagram starts with a 'Sequence' block containing a 'Receive' activity. This 'Receive' activity is connected to three parallel 'Sequence' blocks. Each of these 'Sequence' blocks contains an 'Invoke' activity, followed by another 'Invoke' activity, and then a 'Receive' activity. The 'Receive' activity of the middle 'Sequence' block is connected to the 'Reply' activity at the end of the process. The left sidebar contains a 'Selection Tool' and a 'Marquee Tool' under 'Actions'. Below that are 'Control' actions like 'Switch', 'Pick', 'While', 'Repeat Until', and 'Wait'. Under 'Faults', there are 'Exit', 'Throw', 'Rethrow', and 'Compensate' actions. At the bottom, there are 'Zoom In' and 'Zoom Out' actions. The right sidebar shows a tree view of the process components, including 'Interface Pa...', 'purchasing', 'invoicing', 'shipping', 'Reference P...', 'scheduling', and 'Variables'. The bottom panel shows the 'Properties' view for the selected 'Receive' activity, with fields for 'Partner Link' (purchasing), 'Interface' (purchaseOrderPT), and 'Operation' (sendPurchaseOrder).

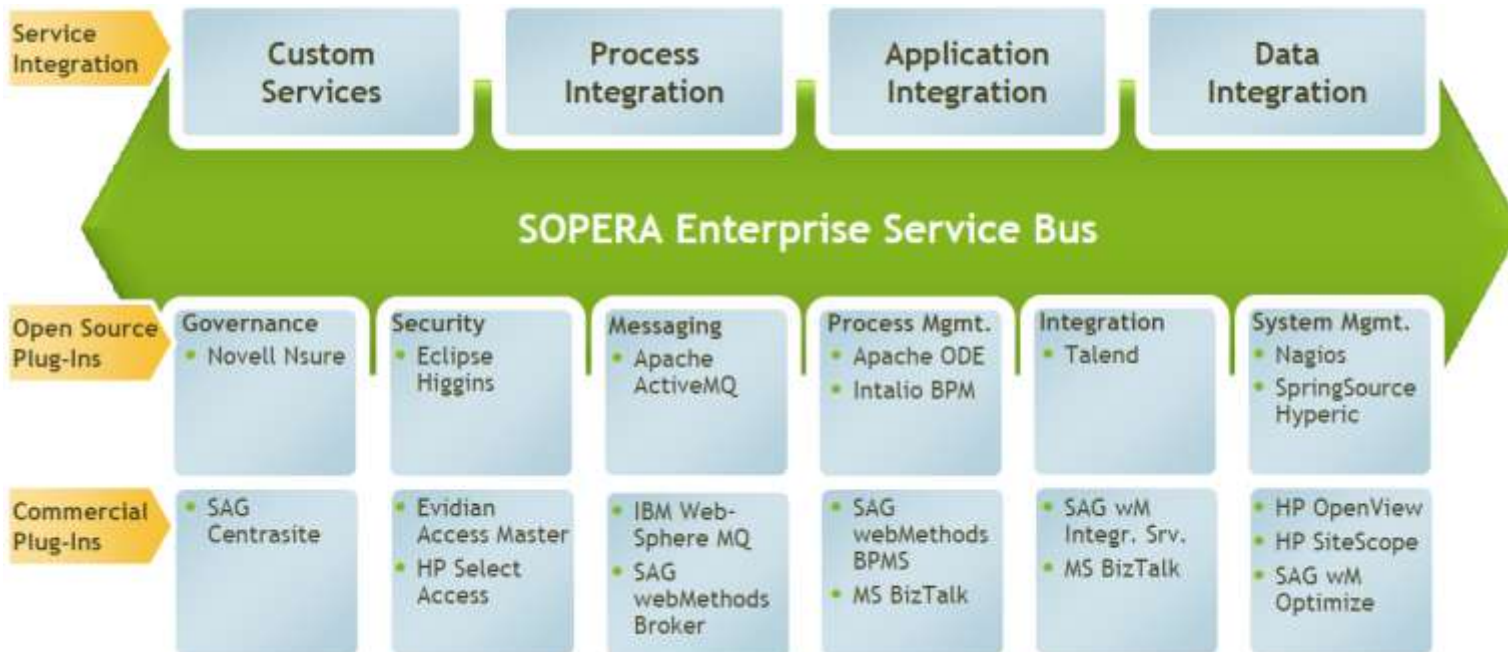
- Based on Eclipse BPEL Editor
 - BPEL 2.0-compliant
 - Intuitive User Interface
 - Direct Deployment
 - Integration with Service Registry

SAP Integration

SOPERA XI Adapter for ESB-2-ESB Connectivity



SOPERA Integration



☰ Контакты

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