

Modeling Data

Cordys BOP 4.1 Fundamentals

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- ◆ Agility Improvement
- ◆ Generic Formats
- ◆ Business Object Abstraction
- ◆ Implementing BO Abstraction
- ◆ Transformation Modeling

◆ Agility:

- ◆ The ability to react fast on events

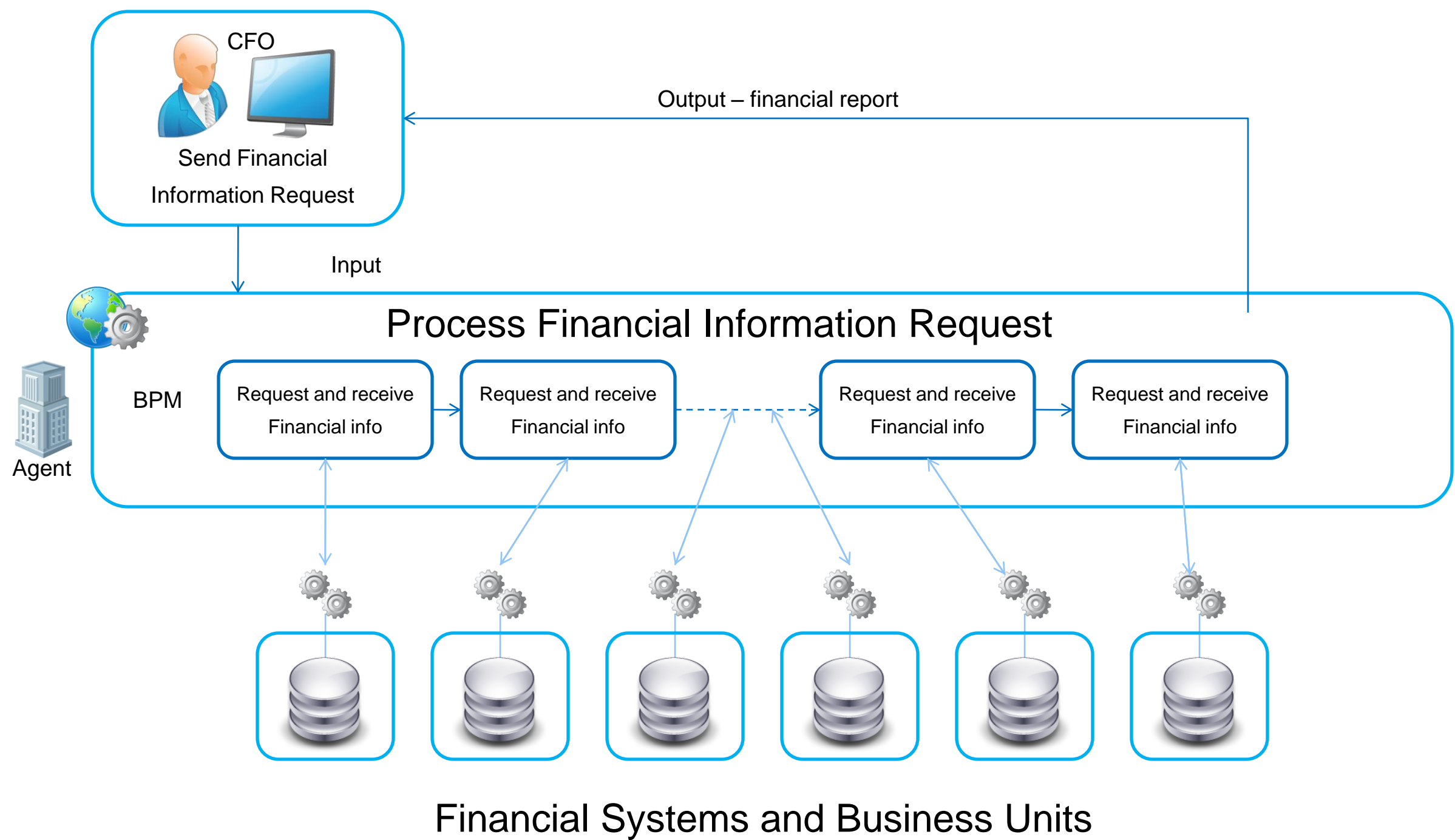
◆ Improvement of Business Agility:

- ◆ Optimize Business Processes
- ◆ Optimize ability to change Business Processes
- ◆ Optimize ability to change in business context/systems

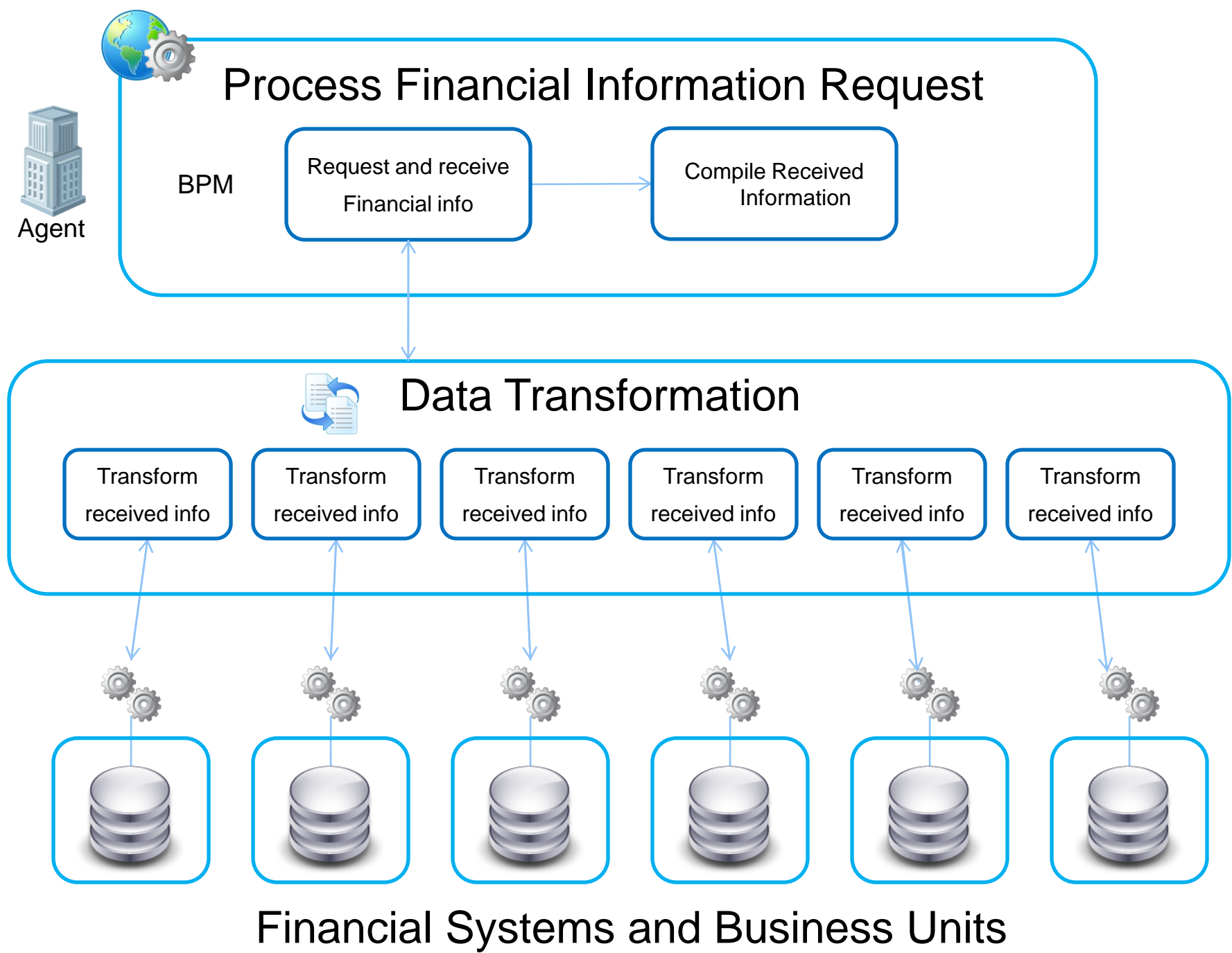
◆ Examples:

- ◆ Incorporation of existing and new systems
- ◆ Integration with external systems (supply chain: customers, suppliers)

Incorporation of existing and new systems

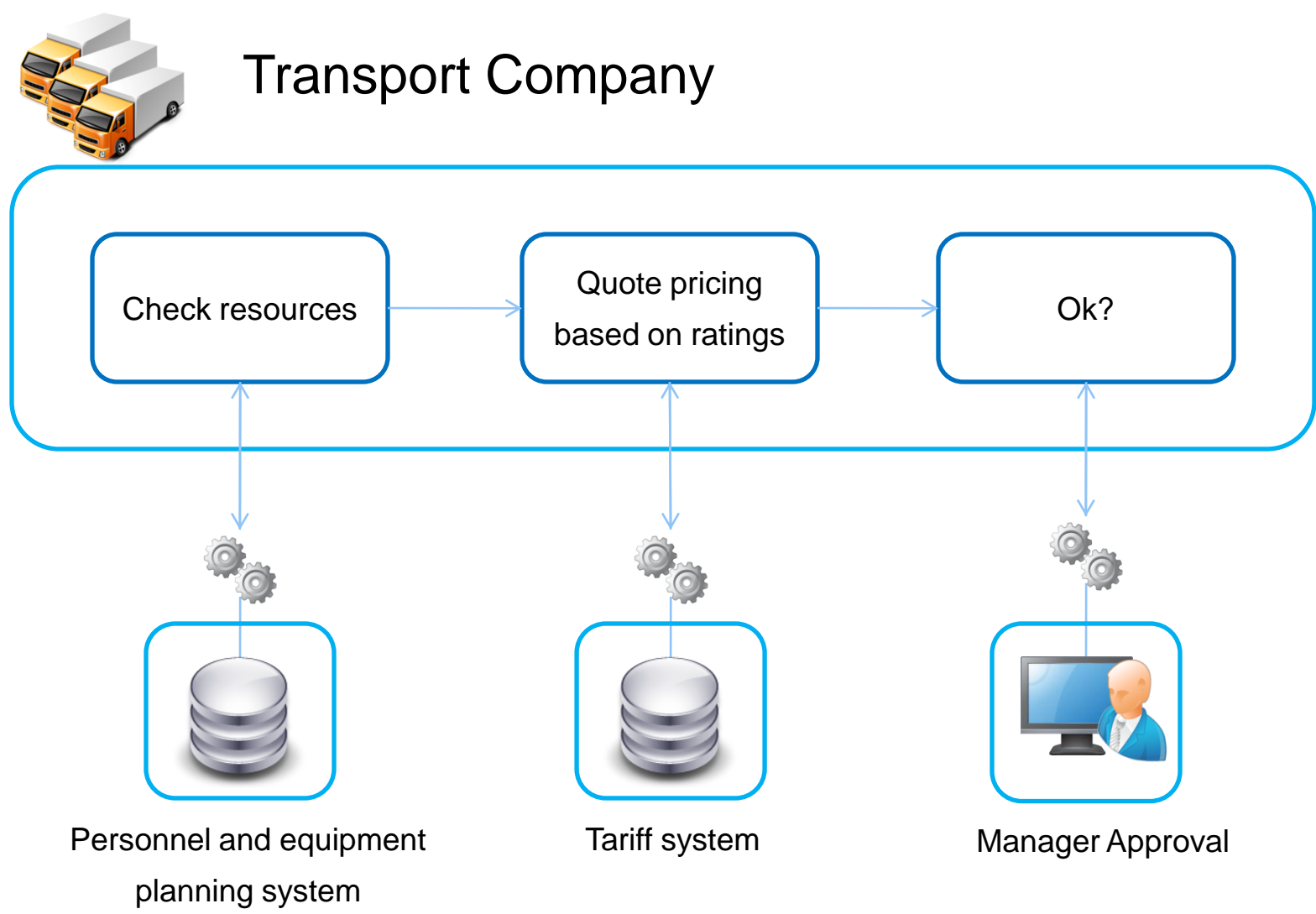
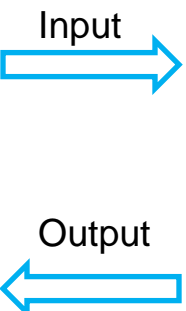
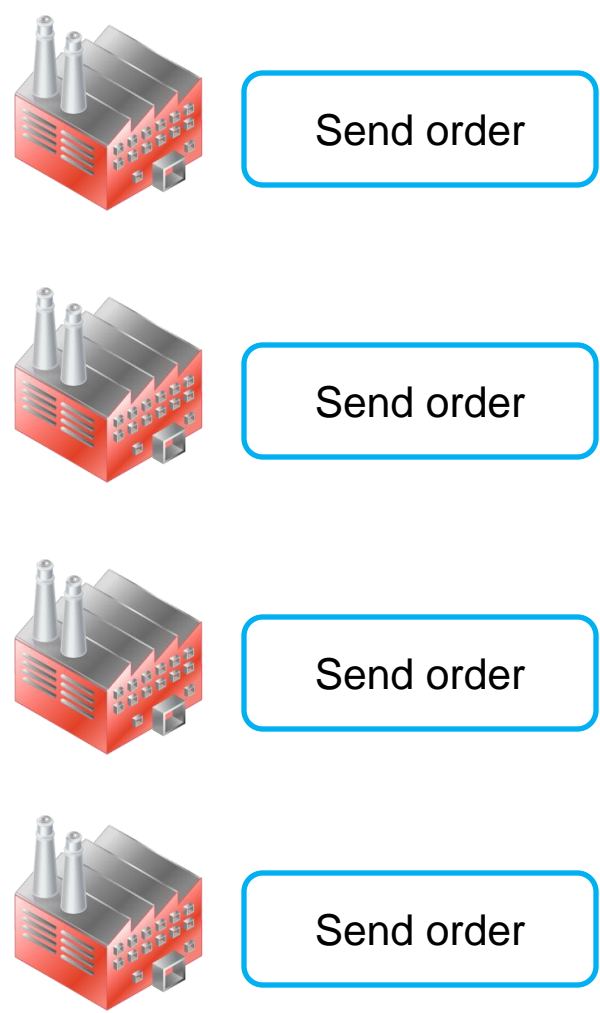


- ◆ Agility Improvement
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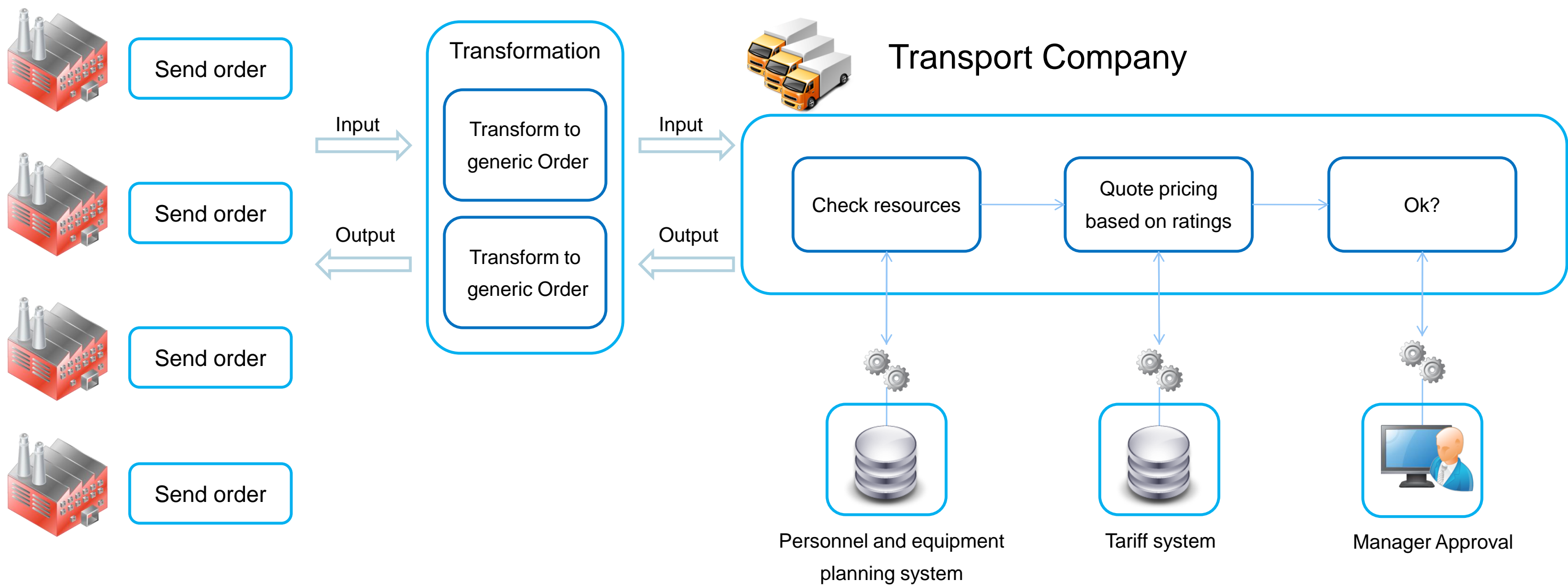
Integration with external systems (supply chain)

Customers



Integration with external systems (supply chain)

Customers



◆ Possible extensions:

- ◆ Add order formats
- ◆ Add web interface
- ◆ Add email interface
- ◆ Add Batch Processing
- ◆ Order state tracking
- ◆ Response formats

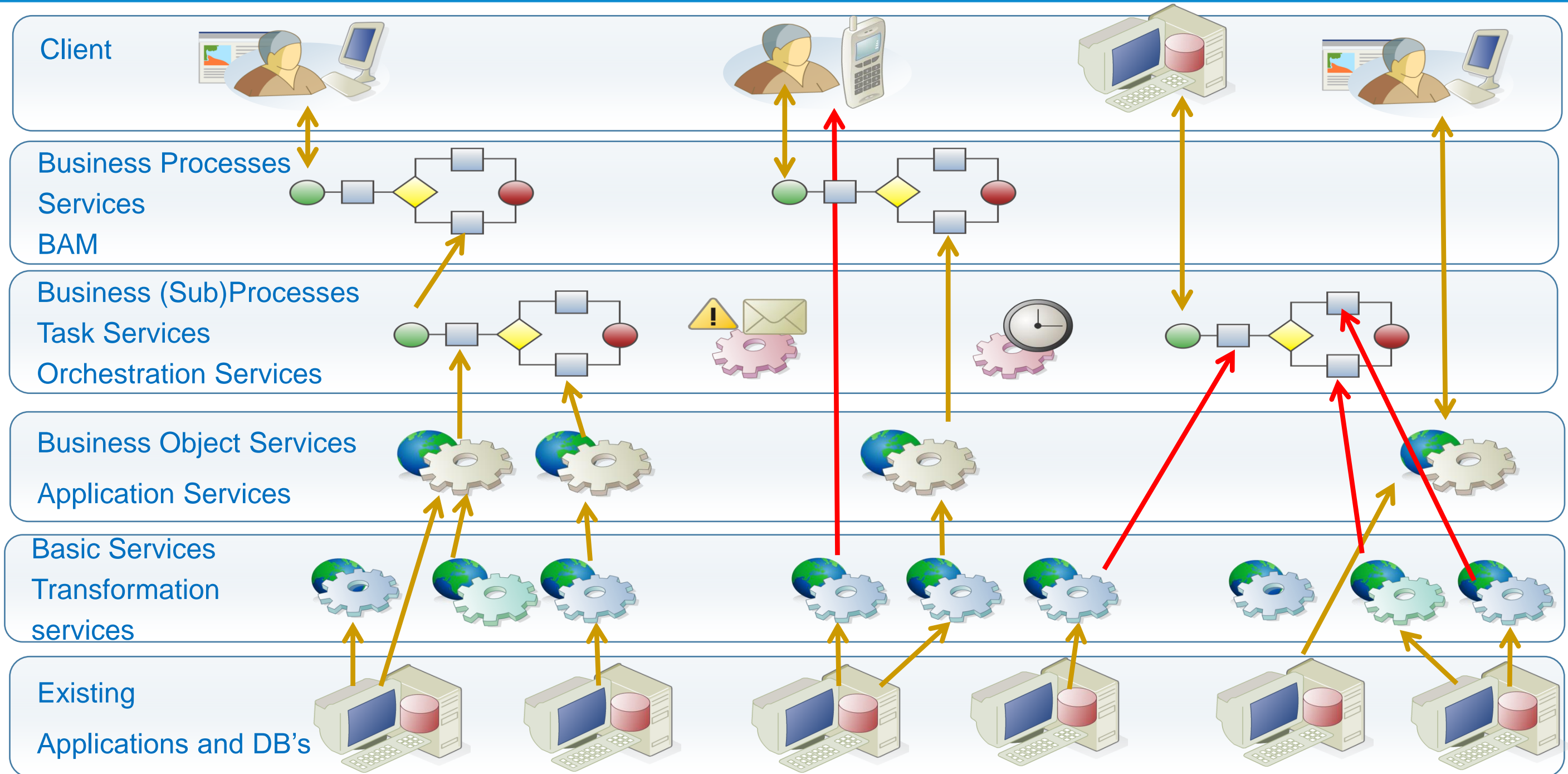
◆ improvements:

- ◆ Transform native order to generic Order (Business Object)
- ◆ Use only generic orders in order processing

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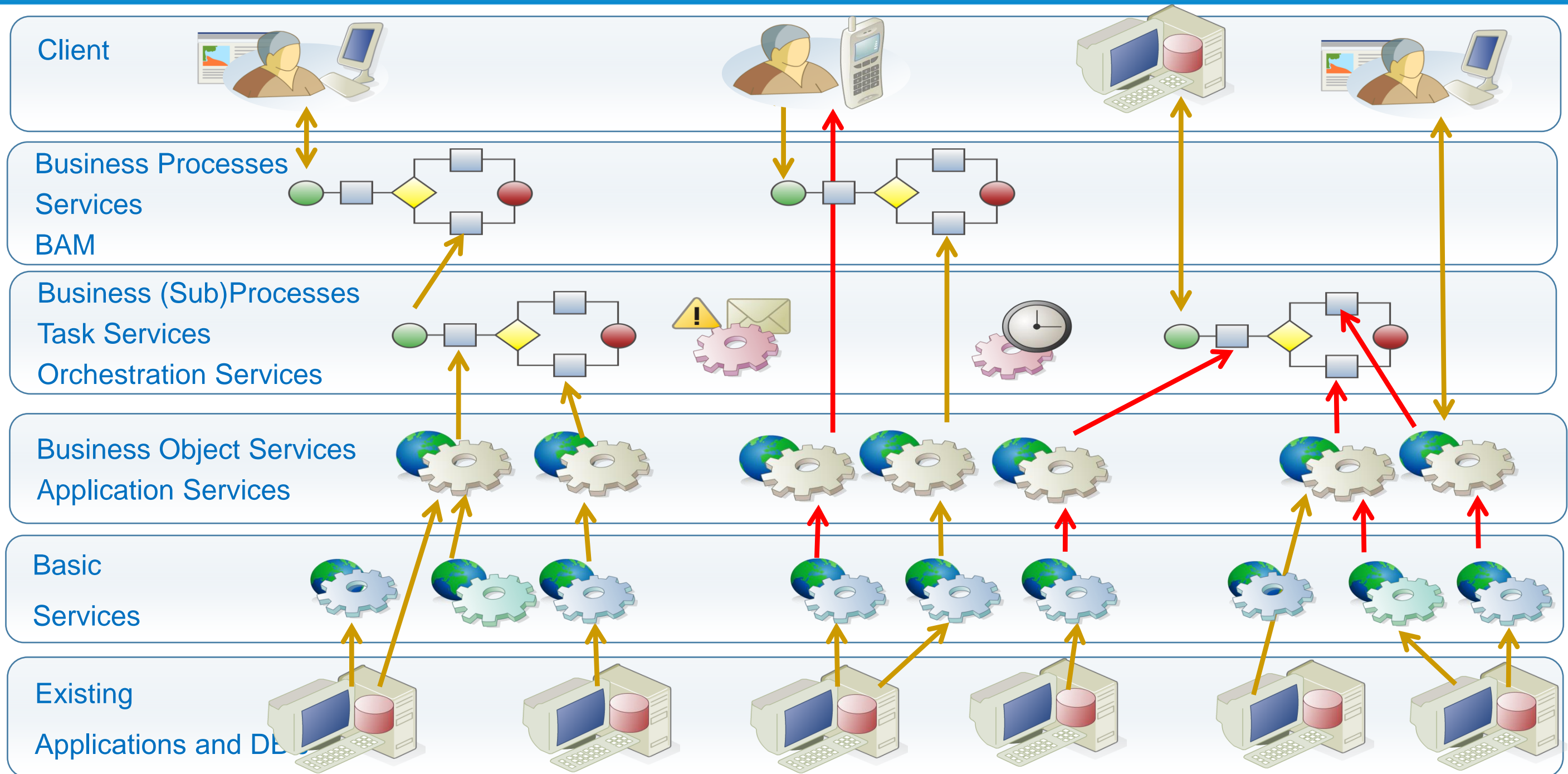
SOA layers: Implementation dependent Processes and UIs

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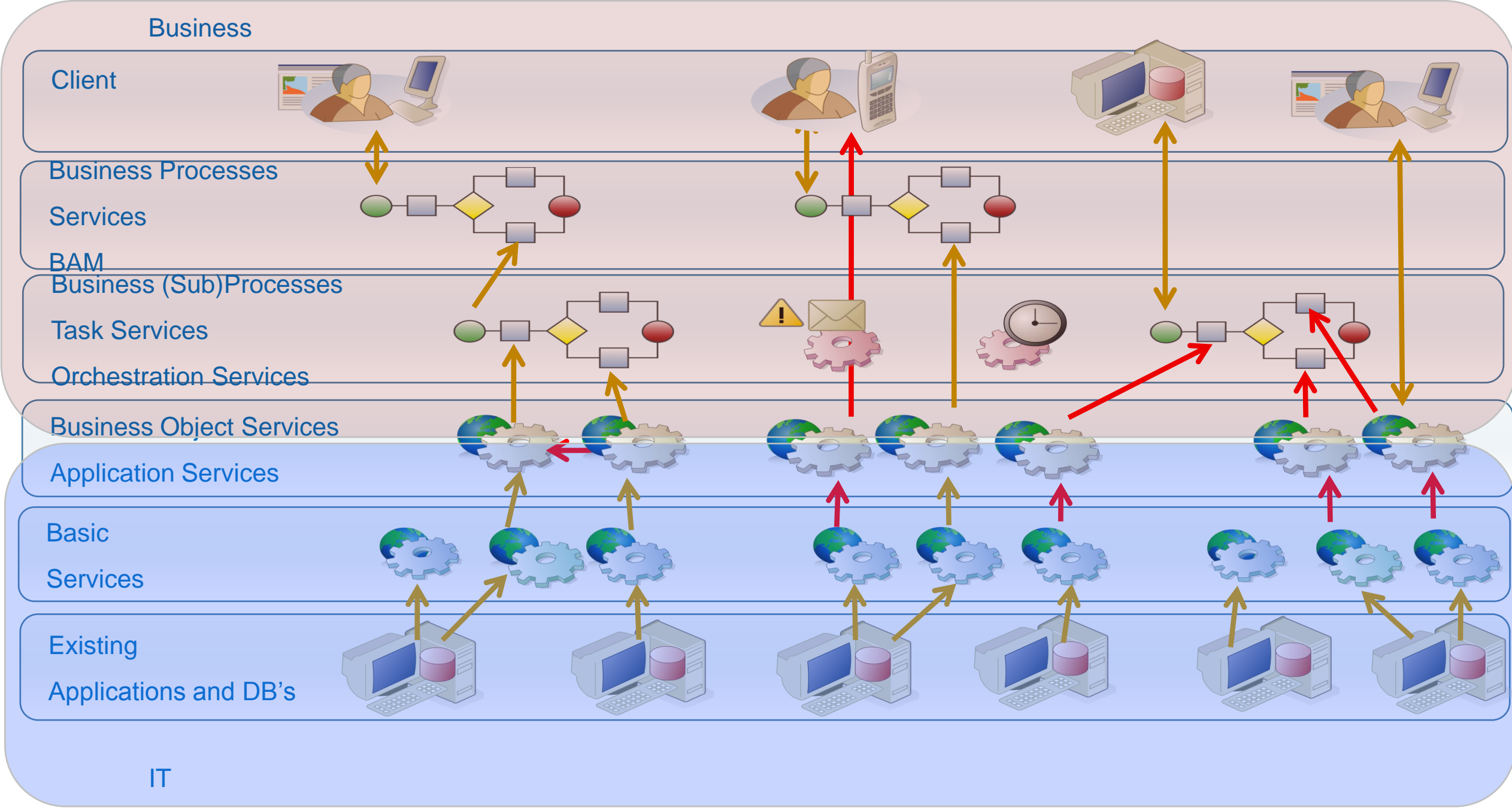


SOA layers: Business Object Services

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Decoupling Business and IT



- ◆ Decoupling of services and implementation

=> Agility Improvement

- ◆ Reducing roundtrips

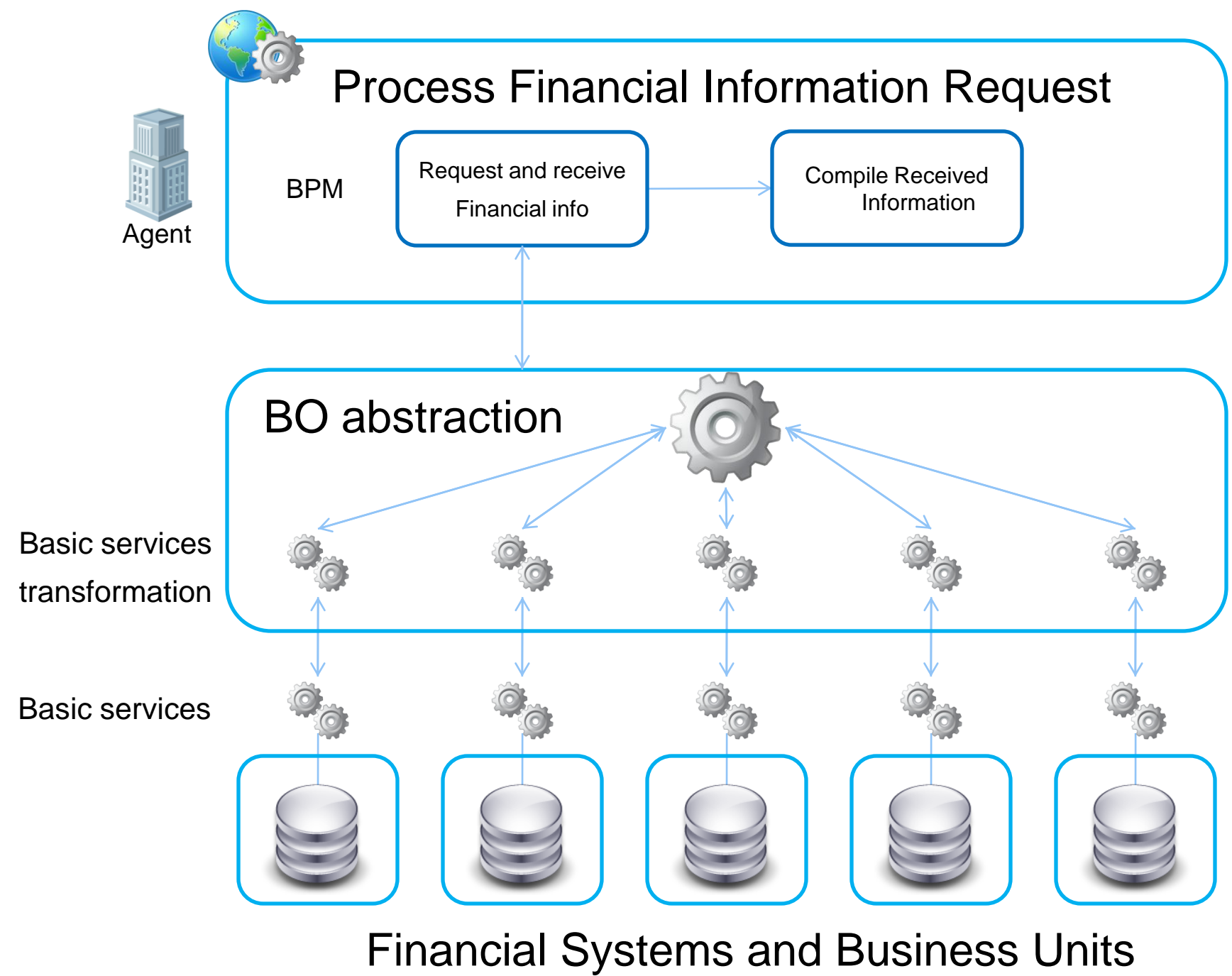
=> Performance Improvement

 - ◆ Composite Objects

 - ◆ Related Data

- ◆ Implementation hiding

=> Security Improvement



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- ◆ Process Modeler

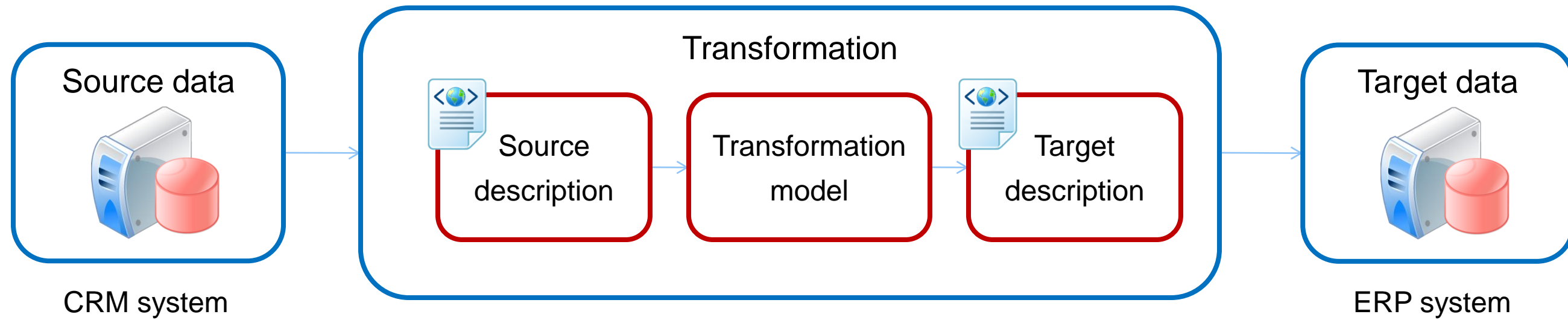
- ◆ Graphical model
- ◆ Contract First
- ◆ Short lived Processes
- ◆ Transaction management (with WS-AppServer Services)

- ◆ WS-AppServer

- ◆ Within Java code SOAP calls can be done

- ◆ Enables parallel development
 - ◆ Forms
 - ◆ Processes
 - ◆
- ◆ Implementation independency
 - ◆ Improvement of implementation
 - ◆ Replacement of implementation

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◆ Food product with lab analysis results

```
<lot number="B12001" fdlRef="32518-13" dateTime="2006/04/02T14:12:45+01:00">
  <productDescription>NONA FRZ  - PINEAPPLE BL CONC.  PRIMA</productDescription>
  <clientName>PRIMA</clientName>
  <blendDate>2006/03/31</blendDate>
  <articleNumber>101 PI 115 0</articleNumber>
  <warehouseName>Cold Stores</warehouseName>
  <concentrate>
    <actual acidity="2.68" ratio="22.44" temperatureAtFilling="-3,3" tonnageKg="20170"/>
    <theoretical uncorrectedBrix="" correctedBrix="60.24" acidity="2.67" ratio="22.56"/>
    <specification uncorrectedBrix="" correctedBrix="59,0 - 61,0" acidity="2,47 - 3,36" ratio="18 - 24"/>
  </concentrate>
  <finishedProduct bx="12.8 Bx" pulp="11.2" coarsePulp="" ph="2.84" formol="" essentialOils=""/>
  <visual colour="Green / yellow" aromaAndFlavour="OK" foreignMatter="NONE" labelsSeals="OK" crystals="" cellsFloatOnWater=""/>
</lot>
```

- ◆ XML Schema Definition (XSD)
- ◆ XML Schemas in Cordys
 - ◆ Data Source Related
 - ◆ Metadata
 - ◆ WS-AppServer models
 - ◆ Custom XML Schemas

The screenshot displays the 'Employee - Schema Fragment' window. It features a toolbar with icons for opening, saving, and refreshing. Below the toolbar are three tabs: 'Text', 'Tree', and 'Instance'. The 'Tree' tab is active, showing a 'Schema Tree' on the left and a 'Properties' panel on the right.

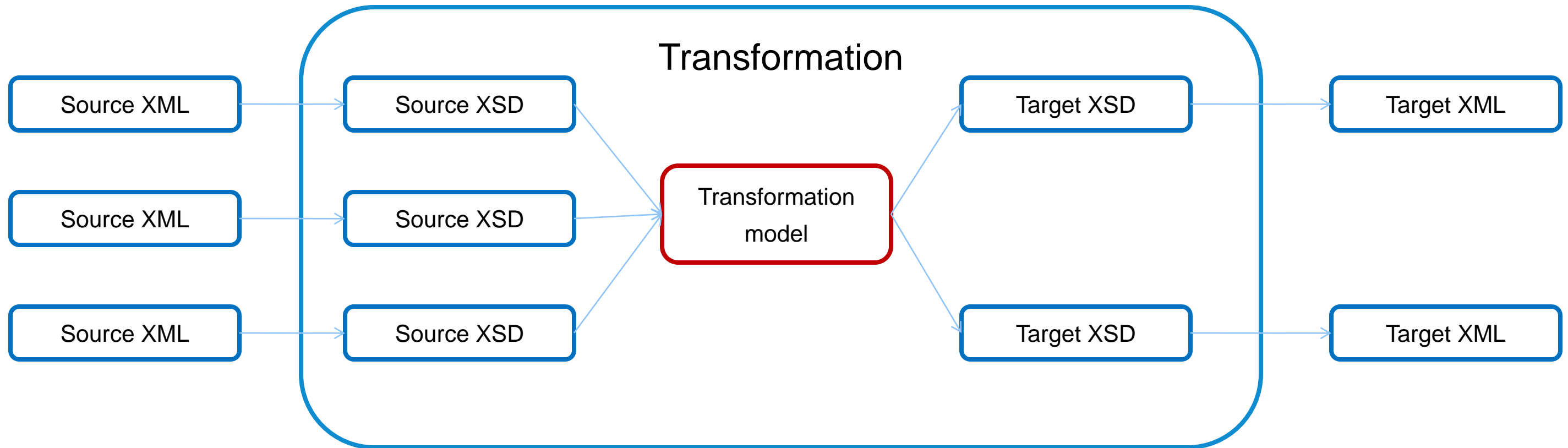
Schema Tree

- schema
 - Employee
 - sequence
 - EmployeeID
 - Firstname
 - LastName
 - Department
 - HireDate
 - Phone

Properties

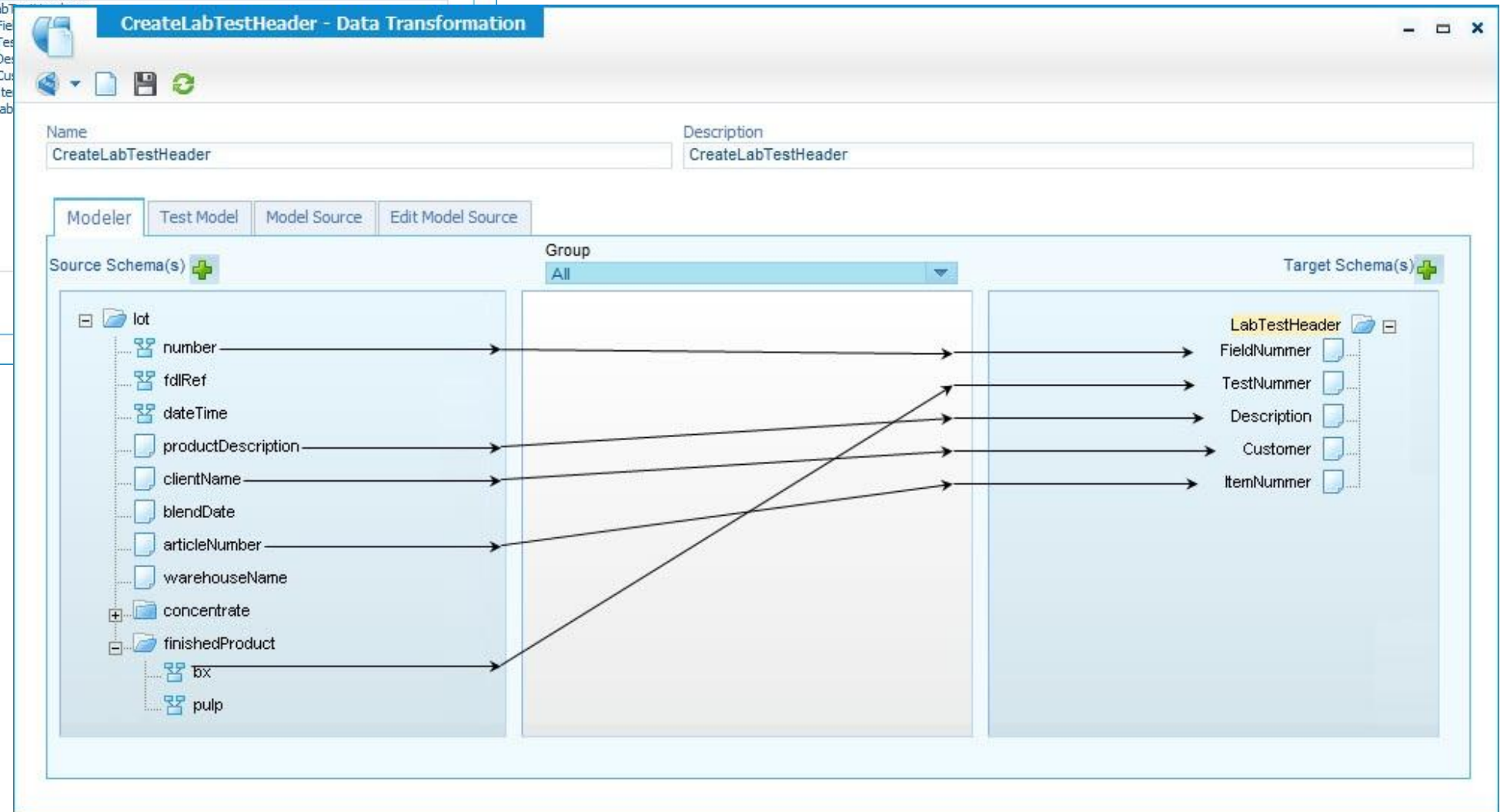
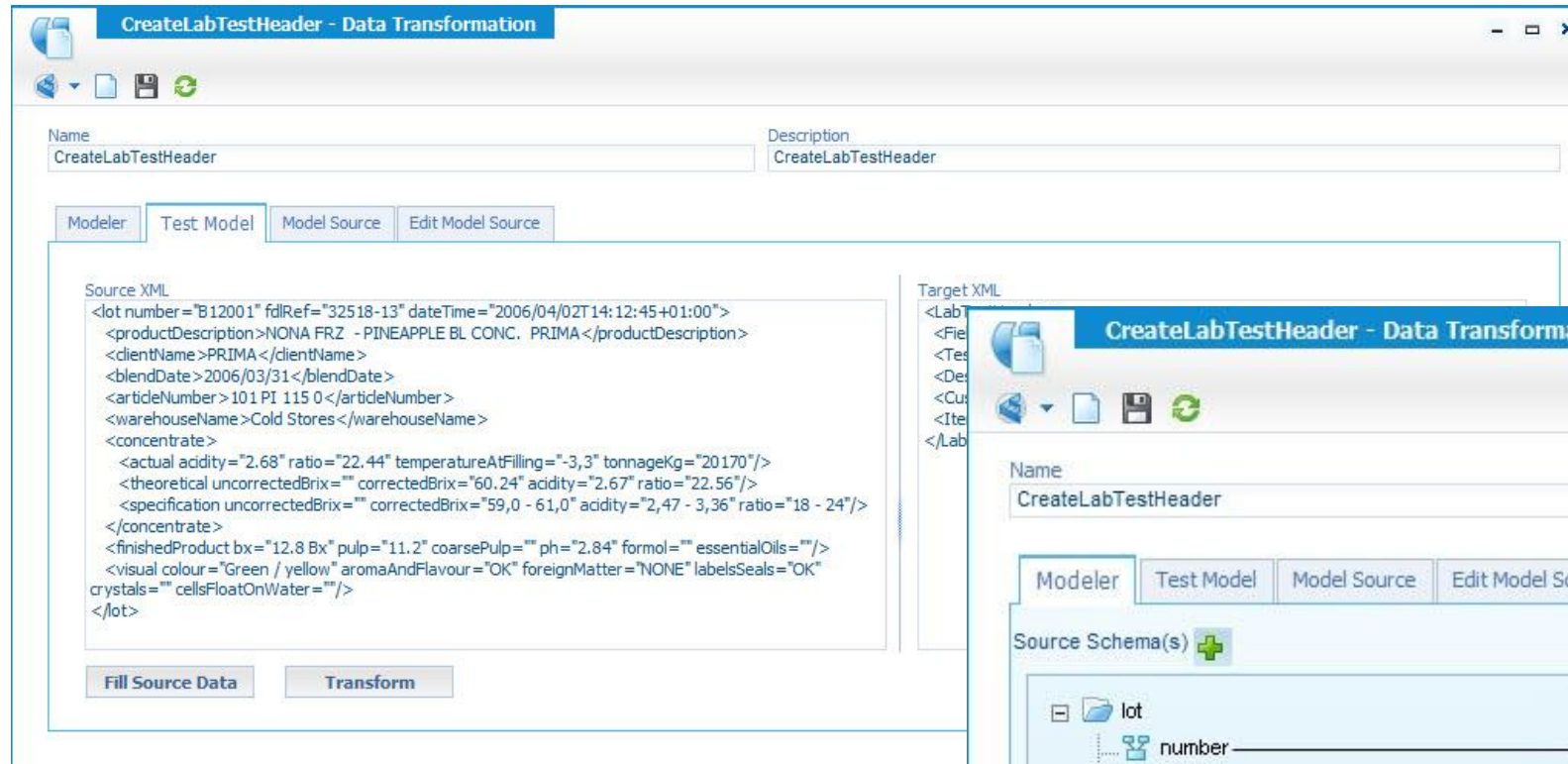
Title	Schema
Namespace	xsd
Target Namespace	http://schemas.company1....
Version	
Default Element Form	qualified
Default Attribute Form	
Default Final Definitions	
Default Blocked Definitions	

- ◆ Graphical Modeler
- ◆ Based on XSLT (Extensible Stylesheet Language Transformation)



Transformation modeler

CORDYS



◆ Built-in (XSLT) functions

- ◆ String
- ◆ Mathematical
- ◆ Logical
- ◆ Date
- ◆

◆ Advanced Functions

- ◆ Trigger Web Service
- ◆ Value Mapping
- ◆ Local Lookup
- ◆ Java call

Thank You

Questions?