ARIS Framework Concept
What is ARIS?

- ARIS = Architecture of Integrated Information Systems
- Framework concept to describe companies and application software
- Developed by Prof. Dr. A.-W. Scheer
- Uses standard modeling methods
- Concentrates on the business process
- Effective in all areas: independent of the number of departments, the size of the company or the available software

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Events trigger functions

Functions generate events

Business Process Components

Customer Order Received → Confirmation of Customer Order → Order Confirmation Created

Trace Order Function → Feedback Received Event

Production Plan Function → Production Plan Created Event
Data is processed in the functions

- Customer Order Received
- Confirmation of Customer Order
- Order Confirmation Created
- Production Data
- Trace Order
- Feedback Received
- Resources
- Production Plan
- Production Plan Created
Employees are responsible for functions
Business Process Components

Employees belong to organizational units

- Organizational Unit

- Customer Order Received
- Confirmation of Customer Order

- Sales Organizational Unit

- Customer Data

- Production Organizational Unit
- Production Data
- Trace Order
- Resources
- Production Plan
- Production Plan Created

- Order Confirmation Created

- Resources

- Production Planning
- Meyer Employee

- Production Data

- Feedback Received

- Employee
Functions create and process performance

Customer Order

Customer Data

Confirmation of Customer Order

Customer Order Confirmation

Order Confirmation Created

Trace Order

Production Data

Feedback Received

Production Plan

Production Plan Created

Customer Order

Organizational Unit

Production

Müller

Employee

Sales

Schmidt

Organizational Unit

Production Planning

Meyer

Employee

Resources

Production Plan

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Reduction in Complexity via View Formation

Data View

Function View

Organization View

Product/Service View
- **Data View**
  What information is important?
  (e.g.: Customer, Supplier, Product, Material Calculation)

- **Function View**
  Which functions will be performed?
  (e.g.: Production Plan Creation, Order Processing)

- **Organization View**
  Which organizational units exist?
  (z. B.: Purchasing, Sales, Accounts)

- **Control View**
  The relationship between data, functions and organizational units

- **Product/Service View**
  Which products/services are important?
  (z. B.: checked order, customer invoice)
ARIS Views

Organizational View

Data View

Control View

Function View

Product/Service View
**Requirements Definition**
Standardized technical description of the company’s concepts

**Design Specification**
Application of the technical requirements in the descriptive language of DV-Technik

**Implementation**
Description of the hard and software components that will be used to apply the company concepts
ARIS Business Process Architecture

I. Process Optimization
   - Business Process Reengineering
   - Reference Models
   - Continuous Process Improvement

II. Process Management
   - Modeling
   - Analysis
   - Simulation
   - Quality Assurance
   - Executive
   - Information Systems
   - Controlling
   - Monitoring
   - Capacity and Time Control

III. Workflow
   - Call Function
   - Document Flow
   - Call Data

IV. Processing
   - Object Library
   - Function Modules
   - Standard software modules
   - Internet Applets
   - Database

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