

Cluster: software development

Content: design

Dr. Walter Rafeiner-Magor 09.11.2012

# Requirement specification SRD/SRS

Anglo-American world uses two documents

- System requirements definition (SRD)
  - Business analysis (system analyst)
  - identify business problems
  - propose solutions
- Software requirements specification (SRS)
  - requirements specification for a software system
  - complete description of the behavior of a system
  - all necessary requirements for project development



# Requirement specification SRS

#### Main topics are:

- Introduction (purpose, definitions, system overview)
- Overall description
  - Product perspective (interfaces)
  - Product functions
  - User characteristics
  - Constraints, assumptions and dependencies
- Specific requirements
  - Requirements (function, external interfaces, performance, logical database)
  - Design constraints
  - Software System attributes (reliability, availability, security, maintainability, portability)



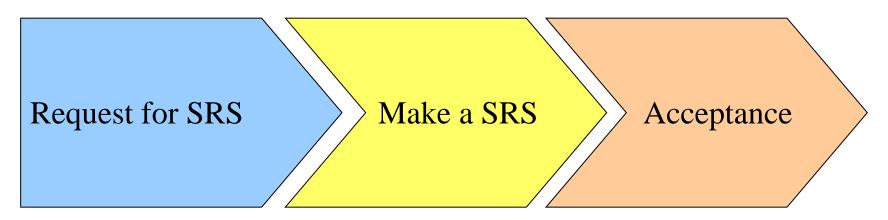
# Requirement specification SRS

Continental Europe: there's only one document (Austria too)

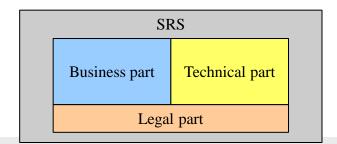
- "Pflichtenheft"
- Similar documents in other engineering branches
- frequently mixed up with the RDD ("Lastenheft")
- Basis of contract



# The chronological order

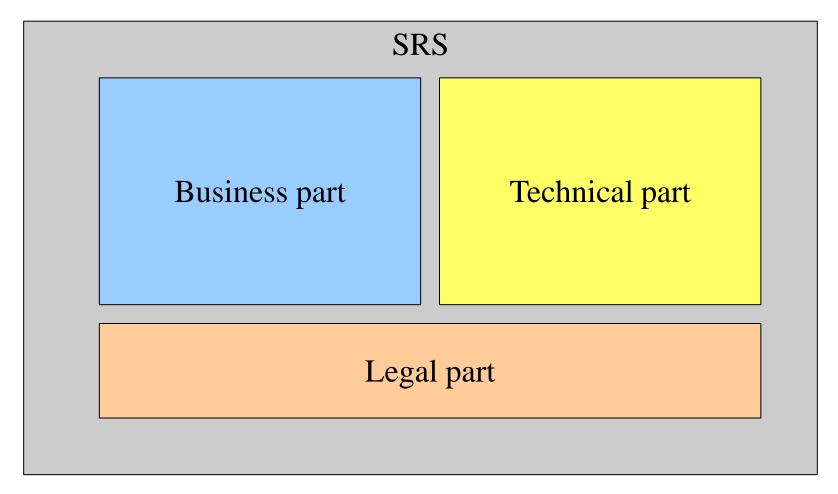


This should be a request in writing!





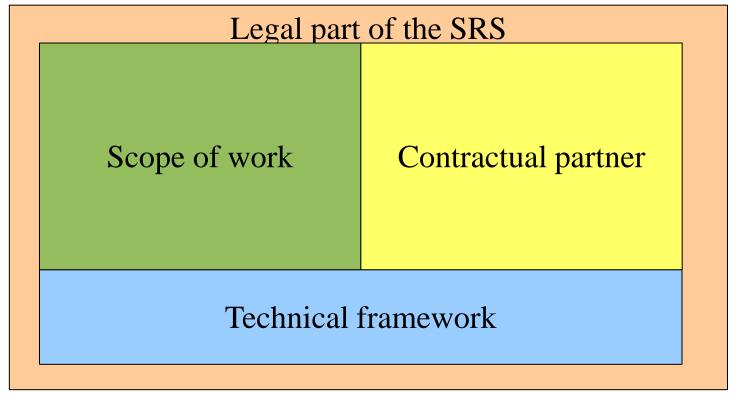
# It mostly consists of ...

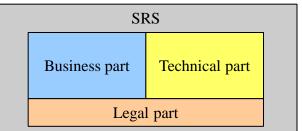






## Content of the legal part





Walter Rafeiner-Magor



# The legal part

#### Scope of work:

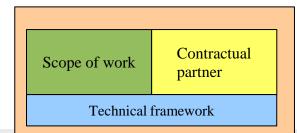
precise definition in scope and objectives

#### Contractual partner:

- To commit the contractual partners to responsibilities within the project
- Contact person from concerned departments (look after your project resources!)

#### Technical framework:

- Legacy Systems, current software
- place of delivery
- Methods, guidelines, etc.

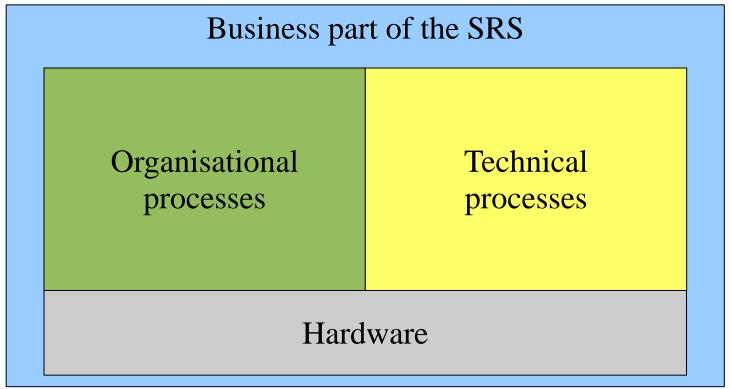


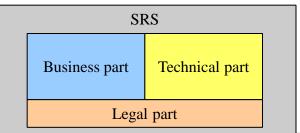
Walter Rafeiner-Magor





# Content of the business part





Walter Rafeiner-Magor



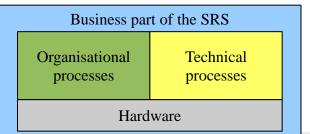
## Business part

#### Overview:

- what to develop
- Use the valid system requirements
- Use a simple but precise structure
- Visualize the processes
- Use the language of the target group
- Document with appr.~60-80 pages
  (Attach complex topics in extra documents!)



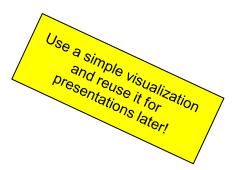




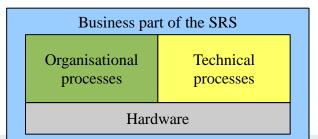


## Business part

- Organisational processes:
  - First the overview, then the detailed view
  - Visualize the processes
- Technical processes:
  - In conjunction with the organisational processes!
  - Where are the UI?
  - What should be included?
    - Menues
    - Dialogs (Input, Output)
    - Tasks
    - Lists, Forms,...
    - Files (I/O, dataset schema)
- **Hardware:** in touch with the user

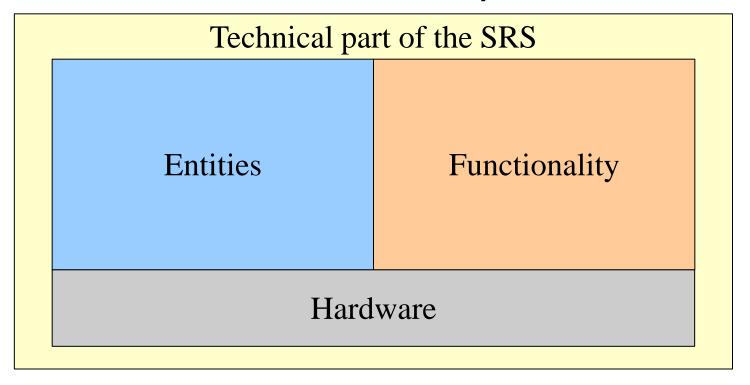


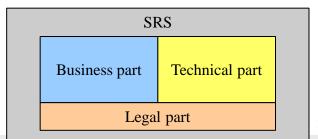






# Content of the technical part





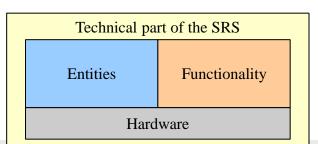




# Technical part

#### Overview:

- How to develop
- All necessary information to develop and maintain the application
- ERM, structure of classes or functions
- Content depends on the programming paradigm (OOP versus procedural programming)



tgm'

Die Schule der Technik

# Technical part

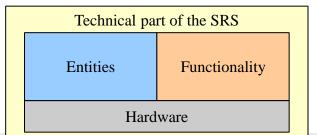
#### Entities:

- Precise description of entities and attributes (business, technical)
- Conjunction between UI, dialogs and dataset schemas

#### Functionality

- Relations and methods
- Many different ways to describe (UML)





Walter Rafeiner-Magor



14