中山大学软件工程学院

SCHOOL OF SOFTWARE ENGINEERING

第4讲 软件需求规约(SRS)

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目录

- 实验内容
- IEEE SRS 标准
- IEEE SRS 示例

实验内容

■ 撰写软件需求规约文档

- 1. 整理分析建模的结果
- 2. 参照IEEE SRS标准, 撰写SRS文档

IEEE需求工程(RE)标准

■ ISO/IEC/IEEE 29148

- 系统与软件需求工程的IEEE国际标准, 涵盖了需求的**定义**、**表达**、**分类**、**获取**、**验证&确认**、**规约**及**管理**

INTERNATIONAL STANDARD

ISO/IEC/ IEEE 29148

Second edition
2018-11

Systems and software engineering — Life cycle processes — Requirements engineering

Ingénierie des systèmes et du logiciel — Processus du cycle de vie — Ingénierie des exigences

IEEE需求工程(RE)标准

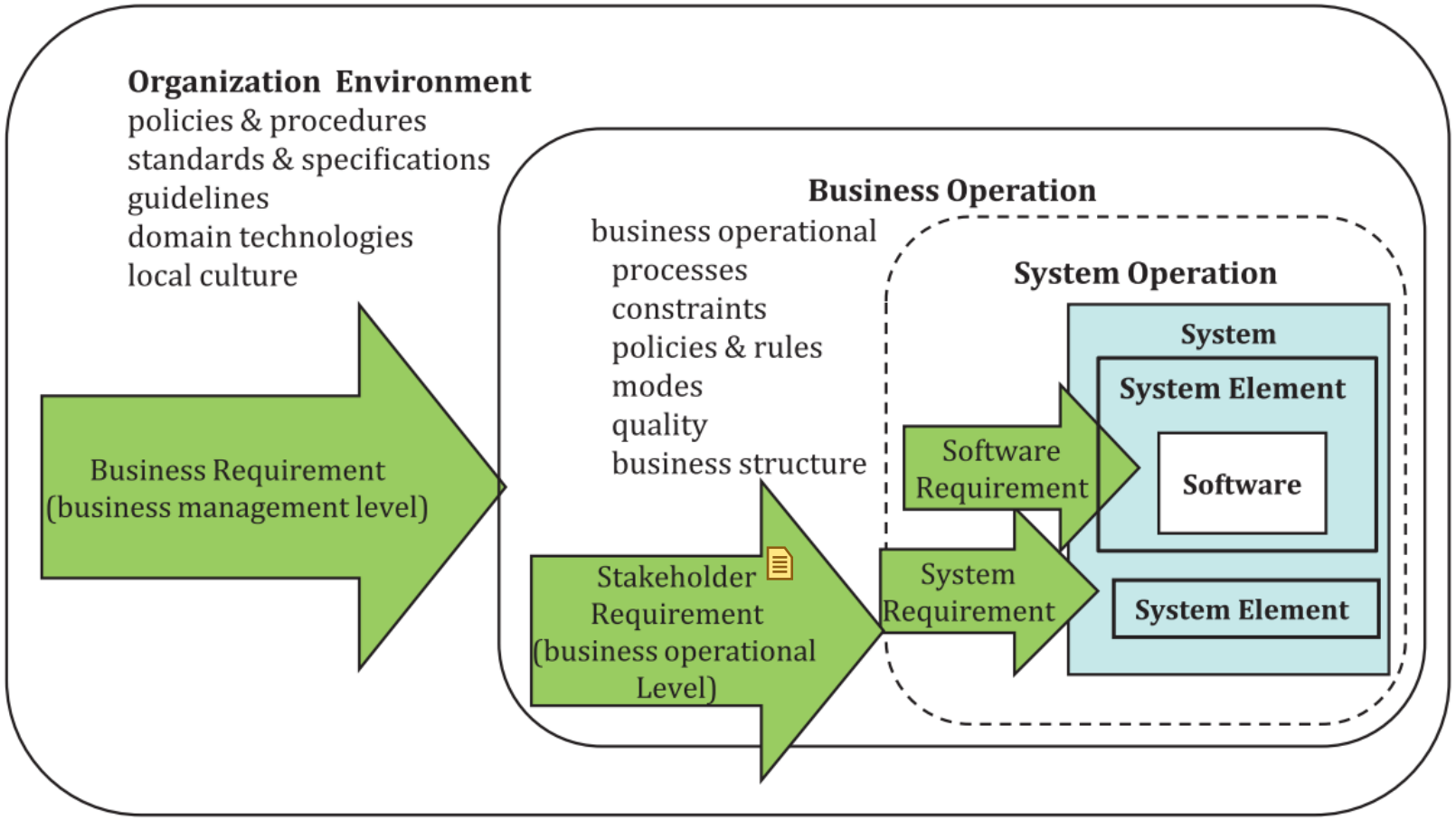

Figure 3 — Example of requirements scope in a business context

IEEE软件需求规约(SRS)

- There is no one optimal organization of the SRS for all systems.

For the details of each part, please refer to Section 9.6 of the ISO/IEC/IEEE 29148 standard.

1. **Introduction**
    - 1.1 Purpose
    - 1.2 Scope
    - 1.3 Product overview
        - 1.3.1 Product perspective
        - 1.3.2 Product functions
        - 1.3.3 User characteristics
        - 1.3.4 Limitations
    - 1.4 Definitions
2. **References**
3. **Requirements**
    - 3.1 Functions
    - 3.2 Performance requirements
    - 3.3 Usability requirements
    - 3.4 Interface requirements
    - 3.5 Logical database requirements
    - 3.6 Design constraints
    - 3.7 Software system attributes
    - 3.8 Supporting information
4. **Verification**
    (parallel to subsections in Section 3)
5. **Appendices**
    - 5.1 Assumptions and dependencies
    - 5.2 Acronyms and abbreviations

Figure 8 — Example SRS Outline

SSE210课程实践: SRS

Software requirements specification (SRS) --

校园超速监控系统

SSE212课程实践: SRS

SSE212课程实践系统--
图书自助借还系统