

# Software Requirements Specification (SRS) — SAP ERP (Mock) BA Case Study (O2C)

Standard: IEEE 29148-aligned SRS structure (English-first)

Project / Scenario: Mock SAP ERP — Order-to-Cash (O2C) controls

Example reference platform: SAP S/4HANA (SD + FI-AR + FSCM Credit Management)

Simulation note: Portfolio mock; terminology references S/4HANA to be concrete; no proprietary SAP content

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## 1. Scope

### 1.1 Purpose

This SRS specifies functional and quality requirements for an ERP Order-to-Cash (O2C) scope with pricing override governance, credit control, billing controls, role-based access control (RBAC), segregation of duties (SoD), and audit logging.

### 1.2 System / Product Scope

In scope:

- Sales Order creation and pricing determination
- Pricing override request, approval, and auditability
- Credit check, credit block, and controlled release
- Billing: invoice creation and credit memo controls
- Audit evidence and reporting views

Out of scope:

- Full FI/CO posting and reconciliation detail
- EDI/IDoc integrations and external tax engines
- Warehouse execution specifics

### 1.3 Intended Audience

- Business stakeholders (Sales Ops, Credit/Risk, Billing)
- QA/UAT participants
- ERP solution owner / implementers

## 2. Normative and Informative References

- PRD: `SAP\_ERP\_PRD`
- BRD: `SAP\_ERP\_BRD`
- Business Rules & Decision Tables: `SAP\_ERP\_Business\_Rules\_Decision\_Tables`
- Roles & Permissions Matrix: `SAP\_ERP\_Roles\_Permissions`
- RTM: `SAP\_ERP\_RTM`
- UAT Test Cases: `SAP\_ERP\_UAT\_Test\_Cases`
- UAT Test Summary + Sign-off (IEEE 829):  
`SAP\_ERP\_UAT\_Test\_Summary\_Report\_IEEE829`

## 3. Terms, Definitions, and Abbreviations

Term	Definition
O2C	Order-to-Cash process from order entry to billing and payment
RBAC	Role-based access control
SoD	Segregation of Duties to prevent conflicting permissions
Credit block	System status preventing further processing due to credit policy
Pricing override	Manual change to pricing beyond configured tolerance
Audit log	Immutable record of critical actions (who/when/what)

## 4. System Overview

The system supports controlled O2C execution with governance controls to reduce revenue leakage (pricing overrides), reduce financial risk (credit control), and improve compliance (auditability and SoD).

## 5. System Context and Operating Environment

### 5.1 Users / External Actors

- Sales Rep
- Sales Manager (approver)
- Credit Analyst
- Billing Clerk
- Auditor

### 5.2 Operating Environment (assumptions)

- ERP UI (example: SAP Fiori apps and/or SAP GUI screens), simulated for portfolio purposes
- Test data available (customers, materials, pricing, credit exposure)

## 6. Requirements

### 6.1 Requirement statement conventions

- Requirements use “shall” statements.
- Each requirement has an ID, priority, and verification method.

### 6.2 Functional requirements

ID	Requirement (shall)	Priority	Verification
FR-O2C-001	The system shall allow a Sales Rep to create a Sales Order with automatic pricing determination.	High	Test
FR-O2C-002	The system shall require a reason code/text when a pricing override is requested.	High	Test
FR-O2C-003	The system shall route pricing overrides to approver(s) and persist the approval	High	Test

	decision and approver identity.		
FR-O2C-004	The system shall perform a credit check and apply a credit block when the customer exposure exceeds the credit limit.	High	Test
FR-O2C-005	The system shall allow only authorized Credit roles to release a credit block and shall record the release action.	High	Test
FR-O2C-006	The system shall allow invoice creation only when prerequisite statuses are satisfied (e.g., approvals complete, no credit block).	High	Test
FR-O2C-007	The system shall require a reason code for credit memo creation and enforce approval if configured by policy.	Medium	Test
FR-SEC-001	The system shall enforce RBAC for sensitive actions (billing creation, credit release, override approval).	High	Test
FR-CTRL-001	The system shall record audit logs for critical actions including actor, timestamp, object ID, and old/new values where applicable.	High	Test

### 6.3 Business rules (normative reference)

Business rules and decision tables are defined in 'SAP\_ERP\_Business\_Rules\_Decision\_Tables' and are treated as normative constraints for this SRS.

#### 6.4 Data requirements

- Customer master data: credit limit, exposure
- Material master data: pricing applicability
- Documents: Sales Order, Invoice, Credit Memo
- Audit log records for critical actions

#### 6.5 External interface requirements (high level)

- User interface shall display statuses (Pending Approval, Credit Blocked) and actionable messages.
- Reporting interface shall allow viewing audit log records by document.

#### 6.6 Quality (non-functional) requirements

ID	Requirement (shall)	Priority	Verification
NFR-SEC-001	The system shall enforce least privilege and prevent users from performing actions outside assigned roles.	High	Test
NFR-AUD-001	The system shall capture audit evidence for pricing override and credit release actions sufficient for internal audit review.	High	Test
NFR-USA-001	The system shall provide clear error messages when actions are blocked (e.g., credit block, missing approval).	Medium	Test
NFR-REL-001	The system shall prevent inconsistent states such as billing while the order is credit-blocked.	High	Test

#### 6.7 Constraints

- Segregation of duties: Sales roles must not release credit blocks.
- Audit trail must be available for critical actions.

## 7. Verification and Validation

Primary verification method for this portfolio case study is UAT / functional testing with evidence capture.

Requirement IDs	Validation approach
FR-O2C-001..007	Execute UAT test cases for O2C flows and capture screenshots/status evidence
FR-SEC-001	Execute negative authorization tests (access denied)
FR-CTRL-001	Review audit log entries for completeness
NFR-*	Validate through UAT evidence and scenario checks

## 8. Traceability

Traceability to business rules and UAT tests is maintained in the RTM: `SAP\_ERP\_RTM`.