ISO/IEC TR 29110-5-6-3:2019 (E)

Systems and software engineering — Lifecycle profiles for Very Small Entities (VSEs) — Part 5-6-3: Systems engineering: Management and engineering guide: Generic profile group: Intermediate profile

Contents

Foreword

Introduction

1 Scope

1.1 Fields of application
1.2 Target audience

2 Normative references

3 Terms and definitions

4 Conventions and abbreviated terms

4.1 Naming, diagramming and definition conventions
4.2 Notation used to document new processes, additions and modifications to the Basic profile processes
4.3 Abbreviated terms

5 Systems Thinking

6 Overview

7 Business Management (BM) process

7.1 BM purpose
7.2 BM objectives
7.3 BM input work products
7.4 BM output work products
7.5 BM internal work products
7.6 BM roles involved
7.7 BM process description
7.7.1 BM diagram
7.7.2 BM activities
7.7.2.1 General
7.7.2.2 BM.01 Select Project Opportunities and Submit Proposals (BM.O1)
7.7.2.3 BM.02. Evaluate Responses to Proposals and Sign Agreements (BM.O1)
7.7.2.4 BM.03 Incorporate Security and Intellectual Property Requirements (BMS.O6)
7.7.2.5 BM.04. Initiate Projects and Allocate Resources (BM.O3, BM.O3, BM.O7)
7.7.2.6 BM.05. Conduct periodic Project Assessment and Control Projects (BM.O2, BM.O6)
7.7.2.7 BM.06. Close Projects and Conduct Lessons Learned Reviews (BM.O1, BM.O5)
7.7.3 BM incorporation to the Organisational Repository

8 Project Management (PM) process

8.1 PM purpose
8.2 PM objectives
8.3 PM input work products
8.4 PM output work products
8.5 PM internal work products
8.6 PM roles involved
8.7 PM diagram
8.8 PM activities
8.8.1 General
8.8.1.1 PM.01 Project Planning, (PM.O1, PM.O5, PM.O6, PM.O7)

8.8.1.2 PM.02 Project Plan Execution (PM.O2, PM.O3, PM.O4, PM.O5, PM.O7)
8.8.1.3 PM.03 Project Assessment and Control (PM.O2)
8.8.1.4 PM.04 Project Closure (PM.O2, PM.O8)
8.8.2 PM incorporation to Project Repository

9 System Definition and Realisation (SR) process

9.1 SR purpose
9.2 SR objectives
9.3 SR input work products
9.4 SR output work products
9.5 SR internal work products
9.6 SR roles involved
9.7 SR diagram
9.7.1 General
9.7.2 SR activities
9.7.2.1 General
9.7.2.2 SR.01 System Definition and Realisation Initiation (SR.O1)
9.7.2.3 SR.02 System Requirements Engineering (SR.O2, SR.O6, SR.O7)
9.7.2.4 SR.03 System Architectural Design (SR.O3, SR.O6, SR.O7)
9.7.2.5 SR.04 System Construction (SR.O4, SR.O6, SR.O7)
9.7.2.6 SR.05 System Integration, Verification and Validation (SR.O5, SR.O6, SR.O7)
9.7.2.7 SR.06 Product Delivery (SR.O6, SR.O7)
9.7.3 SR incorporation to the Project Repository

10 Acquisition Management process (AM)

10.1 AM purpose
10.2 AM objective
10.3 AM input work products
10.4 AM output work products
10.5 AM internal work products
10.6 AM roles involved
10.7 AM diagrams
10.7.1 General
10.7.1.1 AM activities
10.7.1.2 General
10.7.1.3 AM.01 Obtain approval of Purchase Orders and Supplier Agreements (AM.O1)
10.7.1.4 AM.02 Obtain Products or Services or both (AM.O1)
10.7.2 AM incorporation to the Project Repository

11 Roles

12 Work product description

13 System tools requirements

13.1 System tools requirements overview
13.2 Project Management process
13.3 System Definition and Realisation process

Annex A (informative) Systems engineering deployment packages

Annex B (informative) Mapping between the objectives of this document and ISO/IEC/IEEE 15288 and ISO 9001

B.1 General
B.2 Correspondence with the Business Management process
B.3 Correspondence with the Project Management Process
B.4 Correspondence with the System Definition and Realisation Process
B.5 Correspondence with the Acquisition Management Process

Page count: 92