Inspection and Approval Requirements

for

Federation Architecture for Composed Infrastructure Services (FACIS)

Multi-Party Service Level Agreement Demonstrator

FACIS.SLA.Demo

Purpose

The inspection and approval process follows a twofold approach: verification during the software development process and validation through software testing.

Verification is an ongoing, community-driven quality assurance process that focuses on architectural and code design and ensures that the software is built according to the specified requirements. The verification process includes reviews, walkthroughs, and inspections. Validation is a dynamic process that tests and confirms whether the resulting product meets the specified requirements. The validation process includes unit testing, integration testing, system testing, and user acceptance testing

Project Plan

The contractor must submit a project plan for approval within the first week after project's start. The project plan must include:

- Plan as GANTT Chart with at least the 3 milestones:
  - Plan approval
  - Code ready for QA
  - Final validation
- Project team
- DevOps management and tools including AI tools intended for use
- Related open-source packages to be included as runtime components (pre-checked according to license requirements). Dependencies proposed by AI tools are subject to the same client confirmation as any other FOSS component.
- A mapping of the acceptance criteria of the SRS to their planned evidence; acceptance criteria and demonstration scenario should be taken from the SRS Sections 3-5

Inspection and Approval Gates

After submission, the plan will be reviewed within two weeks with the client's team for approval.

The following gates must be reflected in the project plan:

- Client review of the project plan.
- Client rebuilds and deploys the tagged release and witnesses health and the demo-ready state in the FACIS cloud environment.
- Integration tests executed in the FACIS cloud environment
- Demonstration of the product's functionality witnessed by the client, including a nominal run by a client operator from the runbook.

Validation & Acceptance

Validation will be performed against the acceptance criteria defined in the SRS document of the FACIS Multi-Party Service Level Agreement Demonstrator. The client will carry out the final assessment and approve the software based on these acceptance criteria.

The contractor shall inform the client at least two weeks before the software is expected to be ready for QA planning. Upon notification, the client shall coordinate the approval procedure.

The scenarios used for validation are the demonstration scenario in SRS Section 5 with the unit tests in CI and the integration tests; the evidence for each requirement is named in its acceptance criteria.

Assumptions & Dependencies

Main assumptions are the following:

- the OCM W-Stack, PCM Cloud, FAP DCM, FAP PCI, XFSC Federated Catalogue, ORCE and all their components as well as Trusted Cloud service list are provided by the client
- the FACIS cloud environment (namespace with ingress, TLS certificates, Helm deployment rights and a namespace-scoped service account) is provided by the client

A final QA report referencing:

- the SRS document
- the Technical Development Requirements document
- the approved project plan
- the acceptance criteria of the SRS (Sections 3-4)
- the evidence bundle per gate (hashes, reports, PDFs, logs, JSON outputs, trace matrix, CI test reports)

will be prepared by the client and communicated to the contractor.