
B.1 General

The following normative disclaimer shall be included on the front page of a PoC report:

"Submission of this PDL ISG PoC Report as a contribution to the PDL ISG does not imply any endorsement by the PDL ISG of the contents of this report, or of any aspect of the PoC activity to which it refers."

B.2 PDL ISG PoC Report

B.2.1 PoC Project Completion Status

Indicate the PoC Project Status. Can the PoC be considered completed? If this is a multi-stage PoC project, indicate the Reported Stage status and plans for future Project Stages/Milestones.

- Overall PoC Project Completion Status: Completed
- PoC Stage Completion Status (Optional - for Multi Stage projects only):

B.2.2 PDL PoC Project Participants

Specify PoC Team; indicate any changes from the PDL ISG PoC Proposal:

- PoC Project Name: Secure Marketplace for Access to Ubiquitous Goods (SMAUG)
- Network Operator/Service Provider: Ericsson Contact: Santeri Paavolainen
- Manufacturer Aalto University _____ Contact: Lei Wu
- Manufacturer B: Athens University of Economics and Business Contact: Nikos Fotiou
- Additional Members: Rovio _____ Contact: David Mason

B.2.3 Confirmation of PoC Event Occurrence

To be considered complete, the PoC should have been physically demonstrated with evidence provided that the demonstration has taken place.

Provide details on venue and content of PoC demonstration event. Provide pictures and supporting literature where available. Please identify who was present at the demonstration event (optional).

- PoC Demonstration Event Details: ETSI BrightTalk webinar on 17 December 2020
(<https://www.brighttalk.com/webcast/12761/456646>)

B.2.4 PoC Goals Status Report

Specify PoC Goals from PDL ISG PoC Proposal (clause A.1.2). Identify any changes from the original PDL ISG PoC Proposal with an explanation as to why the changes were made. Indicate the extent that each goal was met. Provide sufficient information for those not familiar with the PoC goals to understand what has been achieved and/or learned.

- PoC Project Goal #1: Use of smart contracts to create a neutral, verifiable and auditable marketplace, related to ETSI GS PDL 004 (Smart Contracts) Goal Status Demonstrated

- PoC Project Goal #2: Use of multiple distributed ledgers and interledger operations between them, related to ETSI GS PDL 006 (Interop) Goal Status Demonstrated
- PoC Project Goal #3: Integration of SOFIE project components, which employ standardized and interoperable interfaces (such as DNS-SD, Eddystone BLE beacons, OAuth2.0, W3C WoT-TD, JWT, ERC721, Indy and W3C DID and VC, ERC20 Goal Status Demonstrated

The outcome of the project was in general the demonstration of integration capabilities of the components, quality improvement of the components, and demonstration of the marketplace as an outcome built from the SOFIE project's reusable open-source components. Apart from the software components used in a containerized environment, the project also provided a physical realization, as shown in Figure 1 below.



Figure 1: Physical demonstration locker with Raspberry Pi single board computer controller (left), and the Android mobile phone application used to rent and access lockers.

The SMAUG project also published the resulting integration code, backend code, smart contracts, deployment configuration and mobile application under open source license, available at GitHub (<https://github.com/SOFIE-project/SMAUG-Deployment>).