

PDL ISG PoC 03 Report Template

1 General

Timeless in Metaverse Environment based on edge networks (TiME PROJECT)

"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."

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: PROVEN COMPLETED
- PoC Stage Completion Status (Optional - for Multi Stage projects only): _____

PDL PoC Project Participants

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

☐ PoC Project Name: Timeless in Metaverse Environment based on edge networks (TiME PROJECT)

- Network Operator/Service Provider: KRON WORLD S.L.
- Manufacturer A: _____
- Manufacturer B: _____
- Additional Members: Telefonica, KUNFUD, Kron World S.L. Owake Me Co., Ltd., Lucid Stone Co., Ltd., Green Ocean Co., Ltd., GKC Egypt Co., Ltd., GKC Co., Ltd.,
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- Contact: Wonmo Kim / PoC Administrator / Kron World S.L. / e4sred@gmail.com
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- Contact: Limara Haque / Demonstrator / Kron World S.L. / lh@lumen.llc
- Contact: Haaroon Eshan / Test Executor/ KRON WORDL S.L.
- Contact: Teresa Arribas / TiME Test Executor / Kron World S.L.
- Contact: Yoonsik Oh / Chief Technical Officer / Kron World S.L. / jpoint.kr@gmail.com
- Contact: Hyeong-gil Park / Backend developer / Owake Me Co., Ltd. / gudrlf46@gmail.com
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- Contact: Dama Hyeong-wook Choi / User interface / Owake Me Co., Ltd. / liondama@gmail.com
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- Contact: Henry Kihwan Kim / ICT Chief Architect / GKC Co., Ltd. / wawhenry@gmail.com

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: June 23rd 2022, Demonstrated PoC.

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: The Goal of this PoC project is to help the people to communicate and see the live video, content, and web site taken from the place exactly where they want to take in place. In particularly in this PoC how PDLs can be synchronized in a hybrid peer to peer framework for the management of Smart Contracts.

Goal Status (Demonstrated/Met?) Demonstrated.

List additional (optional) PoC Project Goals (follow the same format).

PDL PoC Technical Report (Optional) B.3.1 General

PoC Teams are encouraged to provide technical details on the results of their PoC using the PoC Scenario Report template below.

PoC Contribution to PDL ISG

CONTRIBUTION	WG/EG	WORK ITEM	Comments
Proved Edge node on Edge network can communicate directly or through server seamlessly with other edge user on the same edge network or on the other edge network without creating unnecessary CO2 emissions, energy consumption, and hardware usages.			It was fast enough and secured, and trustful to enjoy the peer to peer transaction. Direct web sharing and content broadcasting on Hybrid p2p was efficiently built the trustful network and transactions.

Gaps identified in PDL standardization

Use table B.2 to indicate Gaps in standardization identified by this PoC Team including which forum(s) would be most relevant to work on closing the gap(s). Where applicable, outline any action(s) the PDL ISG should take.

Gap identified	Forum (PDL ISG, Other)	Affected WG/EG	WI/Document ref	GAP details and status
Language and template differences amongst foreign users				Each user in different culture using different language and vocabulary has a different format of contract and transaction methods. It is necessary to

				standardize the template to build the secure and trustful worthy transactions.
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PoC Suggested Action Items

There are huge demands of emerging market in Metaverse area from each industry and cultural area. It meets the demand of standardization necessity due to differences of transaction format and language figures. Long term study group and standardization working group is needed to fulfill the standardization requirement in TiME transactions.

Additional messages to PDL

☐ Provide any feedback in a free text format to the PDL ISG. Please indicate whether the team wishes any specific message to be published or publicly quoted.

"The PoC demonstrated the ability to integrate PDLs in a holistic manner, and the ETSI ISG PDL is the perfect expert forum to create an "ad hoc" group for the IPCEI-CIS whereby the projects related with PDL can join the group and contribute to the evolution of IPCEI-CIS and their own projects. We propose this "ad hoc" group and offer our candidacy to lead the group.

PoC 03 members are proposing this PoC to be presented to international standardization organizations.

<https://www.itu.int/en/ITU-T/Workshops-and-Seminars/2022/1018/Pages/default.aspx>

Additional messages to Network Operators and Service Providers?

☐ Are there any specific requests/messages that the team would like to convey to Network Operators and Service Providers?

TiME project proved that the edge node users on edge networks can communicate and make a transaction with other edge node users on the other edge networks and can convey the digital asset or data to another edge nodes on another edge networks as it is also proved the edge node users on the same edge networks used the efficient network bandwidth and storage, and minimized the CO2, material wastes, and energy consumption for performing the demonstration of TiME transactions.