

ETSI GR IPE 010 V1.1.1 (2022-07)



GROUP REPORT

IPv6 Enhanced innovation (IPE); Proof of Concepts Framework

Disclaimer

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Reference

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Foreword

This Group Report (GR) has been produced by ETSI Industry Specification Group (ISG) IPv6 Enhanced innovation (IPE).

Modal verbs terminology

In the present document "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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Introduction

The present document specifies an essential structure for use within ETSI IPE ISG to assess the viability and feasibility of a certain ideation and/or methodology leveraging on a new/emerging technology during its early stage and or pre-standardization phase. This is a framework that will facilitate coordination/collaborations and promote multi stakeholders PoC projects to demonstrate its key aspects, practical potential or function as envisioned.

Likewise, this PoC Framework, comprising of processes, aligned with established/open standards and with the involvement of different participants/players in different industries and organizations; bind together to form a team with a specific goal and role to achieve the delivery of its functional and service requirements.

1 Scope

The present document describes a framework for use within ETSI IPE ISG to coordinate and promote public demonstrations of Proof of Concept (PoC) validating the key technical components developed in IPE.

The primary objective of the PoCs is to build commercial awareness, confidence in this new/emerging technologies and encourage development of an open ecosystem by integrating components from different contributors.

This framework describes:

- rationale for IPE ISG PoCs;
- the IPE ISG PoC process;
- submission, format and criteria for IPE ISG PoC Proposals;
- review and acceptance criteria of PoC Proposals;
- IPE ISG PoC Report format and requirements;
- ETSI support for PoC team.

2 References

2.1 Normative references

Normative references are not applicable in the present document.

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long-term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

Not applicable.

3 Definition of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the following terms apply:

expected contribution: input/feedback expected from the PoC team on a specific PoC topic

IPE ISG PoC proposal: initial description of a PoC project submitted as a contribution for review and acceptance by the IPE ISG before the PoC Project start

NOTE: See annex A.

IPE ISG PoC report: detailed description of the results and findings of a PoC project submitted once the PoC Project has finished

NOTE: See annex B for templates.

Proof of Concept (PoC)/(POC): demonstrate that a given ideation/s or methodologies are viable/feasible

PoC demo: public demonstration of a PoC project

PoC demo objective: detailed description of one particular aspect that the PoC team intends to demonstrate and how it will be achieved

PoC project: multi-party endeavour targeting to prove some concepts in the context of a given technology; activity oriented to perform a PoC according to the framework described in the present document

NOTE: See annex A for templates.

PoC report: collection of PoC demo objectives

NOTE: See annex B.

PoC review team: entity in charge of administering the PoC activity process

PoC team: set of organizations participating in the PoC project

PoC topic: specific topic identified by the IPE ISG, where some from-the-field input or feedback is required from the PoCs

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

CTI	Centre for Testing and Interoperability
ISG	Industry Specification Group
OAM	Operation Administration Maintenance
PoC	Proof of Concept
WG	Working Group
WI	Work Item
Wiki	Website that allows collaborative editing of its content and structure by its users

4 IPE ISG PoC Framework

4.1 Rationale

ETSI IPE ISG aims to identify and describe IPv6 based solutions, look into the derived requirements and reference architectures that are needed to enable the deployment of IPv6 across the new and emerging technology domains. It aims to provide and demonstrate use cases and proofs of concept to support innovation on IPv6 networking topics and validate standards based approaches. This process seeks to enhance the capture and dissemination from real-life IPv6 deployments, trials and relevant industry projects.

The IPE ISG proposes a well-structured framework to enhance the review and submission of ideations and methodologies leveraging on the new and emerging technologies; Thus a well-structured framework of the PoC should have the flexibility and adaptability, in order to serve various applications and services with different traffic pattern, performance and functional requirements, additionally, to support the different deployment scenarios as required.

Proof of Concepts (PoC) are an important tool to demonstrate certain ideations and methodologies as a viable and feasible solution to achieve delivery of requirements. Results and relevant feedback from PoCs execution may guide the IPE ISG to investigate on interoperability and other technical challenges. The public demonstration of these IPE ISG concepts will help build commercial awareness and confidence in related solutions and helps to develop a diverse, open ecosystem.

The PoCs adopt the IPE ISG use case as a working baseline and address the technical challenges and approaches being progressed by the Working Groups (WGs) or help propose new approaches and concepts.

4.2 Call for PoCs

ETSI IPE ISG calls for PoC proposals during the life of the ISG. Details will be made publicly available on the ETSI IPE ISG portal.

4.3 IPE ISG PoC Proposal Submission

The PoC team formation is beyond the scope of the IPE ISG. The PoC team should prepare an ISG IPE PoC proposal (step 3 in Figure 1) according to the IPE ISG PoC proposal template in clause A.1, and the PoC review team may be consulted in support of this effort. The PoC proposal should be submitted to the IPE ISG as a contribution uploaded on the ETSI Portal and a link to the contribution should be sent by the PoC review team to the e-mail distribution list 'ISG_IPE@list.etsi.org' with [IPE ISG PoC proposal] in the subject line.

4.4 IPE ISG PoC Proposal Review

4.4.1 General

The PoC review team is responsible for administering this IPE ISG PoC process, collects, distributes the IPE ISG PoC proposals and announces the accepted IPE ISG PoC proposal based on the review against the IPE ISG POC acceptance criteria of clause 4.5.

The ETSI Centre for Testing and Interoperability (CTI) may further evaluate the PoC according to the acceptance criteria and principles and provide the IPE PoC review team with confirmation of meeting the acceptance criteria (as in clause 5.2) as required by clause 4.5.

The PoC Review process timeline is as follows:

- 1) The IPE PoC review team will provide a response to the PoC team within 30 working days (a two term period review as it applies) upon receipt of the IPE ISG PoC proposal. The PoC approval decision will be placed on hold during the review period. In case no response will be provided within the 30 working days, the PoC proposal should proceed to the next steps of the process.
- 2) If required, additional technical and clarification questions may be presented by the IPE PoC review team at the end of the first review term. Changes may be discussed in order to ensure the proposal is in compliance with the acceptance criteria. The IPE PoC Team's technical and clarification questions should be answered in written format.
- 3) Once these answers are submitted to the IPE PoC review team, a second review period of 15 working days will commence.
- 4) A final decision will be rendered within the 15 working days upon receipt by the IPE PoC review team.

4.4.2 Accepted IPE ISG PoC Proposals

The PoC review team will send an email to the PoC team to confirm the acceptance of the IPE ISG PoC proposal.

The PoC review team will send an email through the 'IPE_POC@list.etsi.org' mailing list to announce each accepted IPE ISG PoC proposal to the IPE ISG community. Likewise, it keeps a list of "List of accepted proposals" in the ETSI IPE POC Wiki page.

The PoC review team will post accepted IPE ISG PoC proposals on a publicly accessible ETSI IPE ISG portal.

Accepted IPE ISG PoC proposals are expected to be executed by the PoC team and a PoC report will be submitted by the PoC team at completion.

4.4.3 Rejected IPE ISG PoC Proposals

The PoC review team will send an email to the PoC team to notify them that the IPE ISG PoC proposal has been rejected with the reason based on the criteria of clause 4.5.

No further action will be taken by the IPE ISG on rejected proposals. PoC team may submit revised IPE ISG PoC proposals for future considerations.

NOTE: This should be reported to the IPE ISG management list and informally to the next meeting.

4.5 IPE ISG PoC Proposal Acceptance Criteria

The acceptance criteria of IPE ISG PoC Proposals are as follows:

- 1) The ISG IPE PoC proposal contains the information requested in the format of the IPE ISG PoC proposal template in annex A. This will be checked by the PoC review team.
- 2) The organizations participating in a PoC team include at least two Manufacturers and at least one Network Operator or one Service Provider, where at least one Network Operator or one Service Provider is a member or participant of the IPE ISG (refer to clause A.1.2). The PoC team is encouraged to include members from the categories of Universities and Research Bodies.
- 3) The IPE ISG PoC proposal addresses/focuses at least one goal relevant to an IPE use case or scenario (refer clause A.1.3.1).
- 4) The output of the PoC provides feedback to the IPE ISG in order to support the improvement of the output of the existing Work Items. Alignment with existing activities and Work Items is recommended.
- 5) The IPE ISG PoC proposal indicates the date/venue where the PoC will be demonstrated (e.g. PoC team member lab, industry trade show, etc.) (refer to clause B.2.3).
- 6) A PoC team project timeline should be provided (refer to clause A.1.4).
- 7) Description of testing methodologies, how they are performed and concrete measurement processes with expected tangible measures should be indicated.

NOTE: This last recommendation should be particularly taken into account by PoC teams. Each set of measurements depend on the context and on the scenarios described for each PoC proposal.

Any IPE ISG PoC proposal which complies with these requirement criteria will be Accepted.

4.6 IPE ISG PoC Report

Once a PoC Team project is concluded, an IPE ISG PoC report with the PoC results is provided to IPE ISG as a contribution to an IPE ISG Plenary Meeting and announced on the IPE ISG 'IPE_POC@list.etsi.org' mailing list. A PoC Wiki section of the ETSI Portal via a link on the IPE homepage will also indicate the PoC report.

An IPE ISG PoC report should contain the information requested in the IPE ISG PoC report template of clause B.2 to notify the IPE ISG that the PoC team has completed its PoC project. PoC teams are encouraged to provide additional technical details on the results of their PoC project using the PoC report format provided in clause B.2.

In addition, PoC team members are encouraged to bring technical proposals based on PoC results to IPE ISG Work Item streams as regular contributions according to what was settled in the PoC submitted proposal.

The PoC review team will present a list of all the IPE ISG PoC reports to the IPE ISG Plenary after proper evaluation of contents.

5 Overall Roles and Activities within PoCs

5.1 General

IPE ISG does not manage individual PoC projects nor get involved in forming PoC teams or executing IPE ISG PoC projects.

5.2 Other Roles and Responsibilities

5.2.1 IPE ISG

The IPE ISG is interested in the outcome of the PoC projects. In the context of the PoC, it is in charge of:

- call for PoCs;
- identifying relevant expected contributions and its timelines for PoC topics;
- processing the contributions made by the PoC teams on those topics.

5.2.2 PoC Review Team

Entity in charge of administering the PoC activity process. It is in charge of:

- maintaining and making available the PoC topics;
- providing guidance and support during the creation of PoC proposals;
- reviewing PoC proposals and PoC reports against the acceptance criteria;
- declaring the acceptance and end of each PoC;
- notifying acceptance/rejection of each PoC through the 'IPE_POC@list.etsi.org' mailing list;
- compiling the accepted PoC proposals, reports and making them available to the IPE ISG POC;
- monitoring the PoC project timelines and sending the appropriate reminders to the PoC teams (for expected contributions, PoC report, etc.).

5.2.3 PoC Team

Group of organizations participating in one PoC project. The PoC team is in charge of:

- writing the PoC proposal;
- executing the PoC and collecting the relevant data;
- writing the PoC report;
- submitting the expected contributions to the IPE ISG.

5.3 PoC Activity Process with Corresponding Responsible Team

Figure 1 provides a visualization of the PoC Activity Process with the Corresponding Responsible Team.

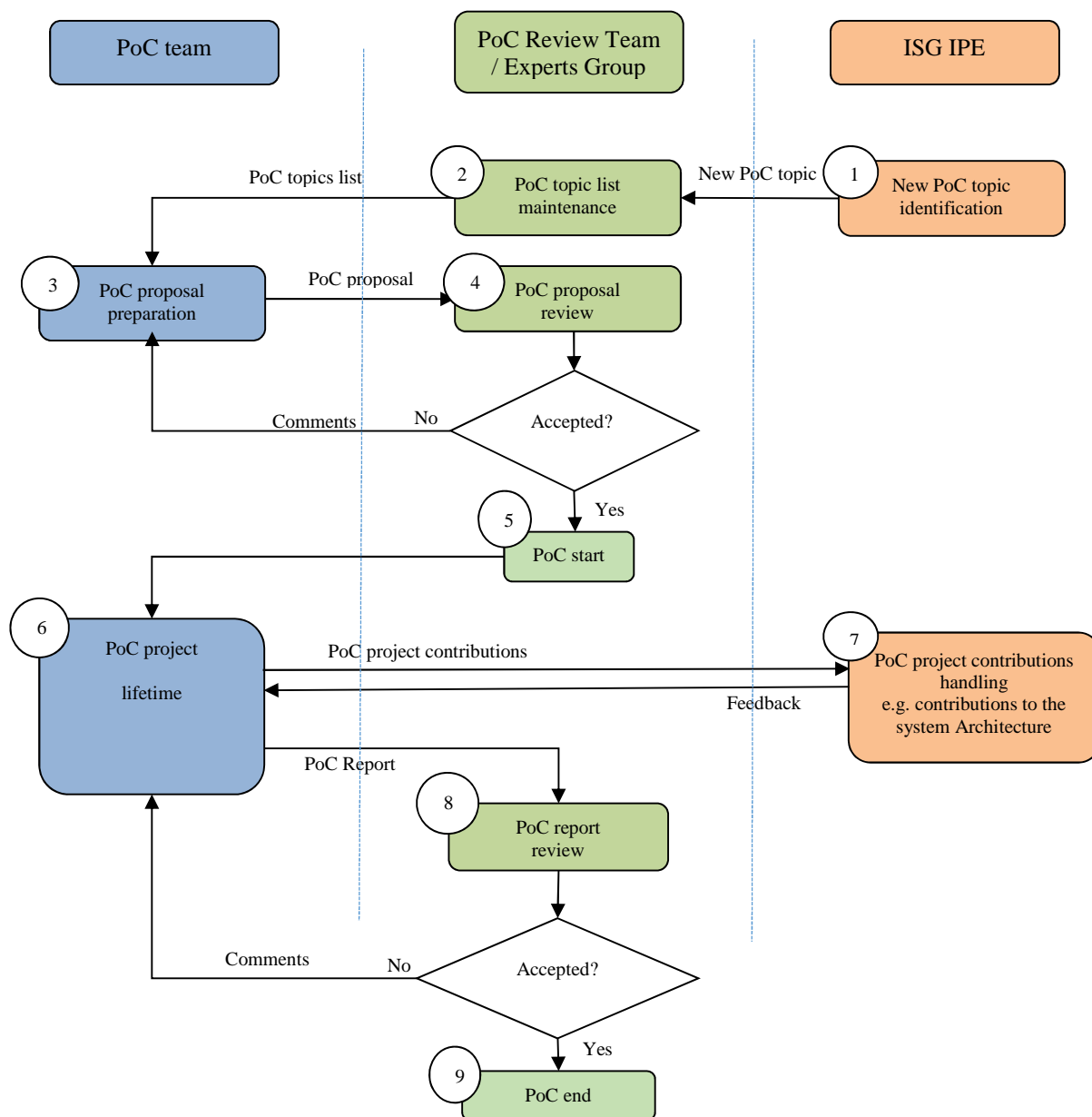


Figure 1: The PoC Activity Process with the Corresponding Responsible Team

Annex A: IPE ISG PoC Proposal template

A.0 The right to copy

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A.1 PoC Project Details

A.1.1 PoC Project

PoC Number (assigned by IPE ISG): _____

PoC Project Name: _____

PoC Project Host: _____

Short Description: _____

NOTE: Add more lines as necessary and needed.

A.1.2 PoC Team Members

Table A.1

	Organization name	IPE ISG member/participant (yes/no)	Contact (Email)	PoC Point of Contact (see note 1)	Role (see note 2)	PoC Components
1						
2						
3						
...						

NOTE 1: Identify the PoC main Point of Contact with an X.
NOTE 2: The Role will be network operator/service provider, infrastructure provider, application provider or other as given in the Definitions of ETSI Classes of membership.

All the PoC Team members listed above declare that the information in this proposal is conformant to their plans at this date and commit to inform ETSI timely in case of changes in the PoC team, scope or timeline.

A.1.3 PoC Project Scope

A.1.3.1 PoC Goals

The PoC will demonstrate at least one use case of and/or requirement and report on the suitability.

A.1.3.2 PoC Topics

PoC Topics identified in this clause need to be taken for the PoC Topic List identified by IPE ISG (step 1 Figure 1) and publicly available, i.e. the three topics identified in clause 4.5 of the IPE PoC Framework. PoC Teams addressing these topics commit to submit the expected contributions in a timely manner.

Table A.2

PoC Topic Description	Related WI/Clause in Document	Expected Contribution	Target Date

A.1.3.3 Other Topics in Scope

List here any additional topic for which the PoC plans to provide input/feedback to ISG IPE.

Table A.3

PoC Topic Description	Related WI	Expected Contribution	Target Date

A.1.4 PoC Project Stages/Milestones

Table A.4

PoC Milestone	Stages/Milestone description	Target Date	Additional Info
P.S	PoC Project Start		
P.D1	PoC Demo 1		Venue, F2F/Webinar
P.D1	PoC Demo 1		Venue, F2F/Webinar
...	...		
P.C1	PoC Expected Contribution 1		
P.C2	PoC Expected Contribution 2		
...	...		
P.R	PoC Report		
P.E	PoC Project End		

NOTE: Milestones need to be entered in chronological order.

A.1.5 Additional Details

Void.

A.2 PoC Technical Details

A.2.1 PoC Overview

Describe the PoC here.

A.2.2 PoC Architecture

Include a schema outlining how the different PoC components were integrated in the PoC architecture; i.e. Physical View/Architecture, IPv6 Addressing/Design, IPv6 End to end View, End to end Service View, Service Design, Interconnectivity Protocol; Network OAM, Interface/s and Security.

A.2.3 PoC Success Criteria

Explain how the proposal intends to verify that the goals and criteria as presented in clauses A.1.3.1 and annex B have been achieved.

EXAMPLE: Functional (it worked, it did not work), Performance-latency, packet loss, jitter, Scalability, Availability and Quality of Service.

A.2.4 Additional information

Include additional information as useful.

Annex B: IPE ISG PoC Report Template

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B.1 General

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

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

B.2 IPE 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: _____
- PoC stage completion status (Optional - for multi stage projects only): _____

B.2.2 IPE ISG PoC Project Participants

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

- PoC Project Name: _____
- Network Operator/Service Provider: _____ Contact: _____
- Manufacturer A: _____ Contact: _____
- Manufacturer B: _____ Contact: _____
- Additional Members: _____ Contact: _____

B.2.3 Confirmation of PoC Event Occurrence

To be considered as complete, the PoC should have been physically or virtually demonstrated with evidences extracted from the demonstration, i.e. the following information should be provided:

- details on date/venue and content of PoC demonstration event;
- pictures and supporting literature where available;
- details about the target measures that have been met;
- identification about who was present at the demonstration event (optional);

- PoC demonstration event details.

B.2.4 PoC Goals Status Report

Specify PoC goals from IPE ISG PoC proposal (clause A.1.3.1). Identify any changes from the original IPE 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: _____ Goal Status (Demonstrated/Met?)

List additional (optional) PoC project goals (follow the same format).

B.2.5 PoC Feedback Received from Third Parties (Optional)

Where applicable, provide in a free text, feedback received from potential customers, ecosystem partners, event audience and/or general public.

B.3 IPE PoC Technical Report (Optional)

B.3.1 General

PoC team are encouraged to provide technical details on the results of their PoC using the PoC report template below.

B.3.2 PoC Contribution to IPE ISG

Use Table B.1 to list any contributions to IPE ISG resulting from this PoC Project.

Table B.1

Contribution	WI/Document Ref	Comments
Xxxxxx	ETSI GR IPE 010	
Yyyyy		<i>i.e. "New WI proposal addressing"</i>
...		

B.3.3 Gaps Identified in IPE 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) IPE ISG should take.

Table B.2

Gap Identified	Forum (IPE ISG, Other)	Affected WG	WI/Document Ref	Gap details and Status
Xxxxxx	<i>IPE</i>		ETSI GR IPE 010	
Yyyyy				
...				

B.3.4 PoC Suggested Action Items

Provide suggested action items and/or further work required from IPE ISG and/or external forums.

B.3.5 Additional messages to IPE

Provide any feedback in a free text format to IPE ISG indicating whether the team wishes any specific message to be published or publicly quoted.

History

Document history		
V1.1.1	July 2022	Publication