



## **Experiential Networked Intelligence (ENI); Proof of Concepts Framework**

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It does not necessarily represent the views of the entire ETSI membership.

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**Reference**

RGS/ENI-0012

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**Keywords**

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**ETSI**

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## Foreword

This Group Specification (GS) has been produced by ETSI Industry Specification Group (ISG) Experiential Networked Intelligence (ENI).

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## Modal verbs terminology

In the present document "**shall**", "**shall not**", "**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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# 1 Scope

The present document specifies a Proof of Concept (PoC) framework for use within ETSI ENI ISG, to coordinate and promote public demonstrations which validate key technical components developed in ENI.

The primary PoC objectives - to illustrate the use of AI/ML techniques in support of mobile network operations, build commercial awareness and confidence in this emerging technology area, and encourage development of an open ecosystem by integrating components from different contributors.

This framework outlines:

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

The present publication is revised to include; e.g.:

- the ENI System Architecture;
- the ENI new Requirements and Use Cases;
- the ENI measurability criteria.

---

# 2 References

## 2.1 Normative 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.

Referenced documents which are not found to be publicly available in the expected location might be found at <https://docbox.etsi.org/Reference>.

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 necessary for the application of the present document.

- |     |  |
|-----|--|
| [1] | ETSI GS ENI 002: "Experiential Networked Intelligence (ENI); ENI requirements".    |
| [2] | Void.  |
| [3] | ETSI GS ENI 001: "Experiential Networked Intelligence (ENI); ENI use cases".       |
| [4] | ETSI GS ENI 005: "Experiential Networked Intelligence (ENI); System Architecture". |

## 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.

[i.1] ETSI Directives (March 2018).

NOTE: Available at [https://portal.etsi.org/directives/38\\_directives\\_feb\\_2018.pdf](https://portal.etsi.org/directives/38_directives_feb_2018.pdf).

[i.2] ETSI GR ENI 004: "Experiential Networked Intelligence (ENI); Terminology for Main Concepts in ENI".

[i.3] Void.

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## 3 Definition of terms, symbols and abbreviations

### 3.1 Terms

For the purposes of the present document, the terms given in ETSI GR ENI 004 [i.2] and the following apply:

NOTE: A term defined in the present document takes precedence over the definition of the same term, if any, in ETSI GR ENI 004 [i.2].

**ENI ISG PoC proposal:** initial description of a PoC Project, submitted as a contribution for review and acceptance by the ENI ISG before the PoC Project starts

NOTE: See annex A.

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

**manufacturer:** company having a substantial capacity to develop and/or produce and/or install and/or maintain products to be used in, or directly or indirectly connected to, an electronics communications network

NOTE: An association or organization of such manufacturers also falls within this category. (Member categories from Rules of procedure in ETSI Directives [i.1]).

**network operator:** operator of an electronics communications network or part thereof

NOTE: An association or organization of such network operators also falls within this category. (Member categories from Rules of procedure in ETSI Directives [i.1]).

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

**PoC project:** activity oriented to perform a PoC according to the framework described in the present document

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

**PoC scenario report:** collection of PoC Demo Objectives

NOTE: See annex B.

**PoC team:** organizations participating in the PoC Project

**service provider:** company or organization, making use of an electronics communications network or part thereof to provide a service or services on a commercial basis to third parties

NOTE: An association or organization of such service providers also falls within this category. (Member categories from Rules of procedure in ETSI Directives [i.1]).

## 3.2 Symbols

Void.

## 3.3 Abbreviations

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

AI	Artificial Intelligence
ENI	Experiential Network Intelligence
IDC	Internet Data Centre
IP	Internet Protocol
ISG	Industry Specification Group
ML	Machine Learning
PoC	Proof of Concept
SD-WAN	Software Defined - Wide Area Network
URL	Universal Resource Location
WG	Working Group
WI	Work Item

---

# 4 ENI ISG PoC Framework

## 4.1 Rationale

The ENI system is an innovative, policy-based, model-driven functional entity that improves operator experience. It does not simply address automation - it also assists with the decision-making capability of humans, as well as machines. The goal is to enable the system to be more maintainable, reliable, and provide context-aware services that meet the needs of the business.

Proof of Concepts are an important tool to demonstrate ENI as a viable technology. Results from PoCs may guide the work in the ENI ISG by providing feedback on interoperability and other technical challenges. The public demonstration of these ENI concepts will help build commercial awareness and confidence in this ENI approach, and develop a diverse, open ENI ecosystem. A single PoC demonstration will impact its immediate audience, but a cumulative set of successful PoCs will provide industry momentum for ENI concepts.

The PoCs shall adopt the ENI use cases as a working baseline, and address the technical challenges and approaches therein.

## 4.2 Call for PoCs

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

## 4.3 ENI ISG PoC Proposal Submission

PoC Team formation is beyond the scope of the ENI ISG. The PoC Team shall prepare an ENI ISG PoC Proposal according to the ENI ISG PoC Proposal template in clause A.1, and the ENI ISG PoC Review Team may be consulted in support of this effort. The PoC Proposal shall be submitted to the ENI ISG as a contribution uploaded on the ETSI Portal and a link to the contribution shall be sent by the ENI PoC Review Team to the dedicated e-mail distribution list 'ISG\_ENI@LIST.ETSI.ORG' with [ENI ISG PoC Proposal] in the subject line.



## 4.4 ENI ISG PoC Proposal Review

### 4.4.1 General

The ENI PoC Review Team is responsible for administering this ENI ISG PoC process. The ENI PoC Review Team shall collect and distribute the ENI ISG PoC Proposals and announce the accepted ENI ISG PoC Proposal based on the review against the ENI ISG PoC acceptance criteria of clause 4.5. The ETSI Centre for Testing and Interoperability (CTI) will further evaluate the PoC according to the criteria acceptance and principles and provide the ENI PoC Review team with confirmation of meeting the acceptance criteria (as in clause 5.1) as required by clause 4.5.

The PoC Review process timeline follows:

- 1) The ENI PoC Review Team will provide a response to the PoC Team within 30 days after receipt of the ENI ISG PoC proposal.
- 2) If required, additional technical and clarification questions may be presented by the ENI PoC Review committee at the end of the first review term:
  - a) The PoC approval decision will be placed on hold, pending additional review.
  - b) The ENI committee's questions should be answered in written format.
  - c) Once these answers are submitted to the ENI PoC committee, a second review period of 15 days will commence.
  - d) A final decision will be rendered within the 15 days of the ENI committee's receipt of the response.

### 4.4.2 Accepted ENI ISG PoC Proposals

The ENI PoC Review Team will send an email to the PoC Team to confirm the acceptance of the ENI ISG PoC Proposal.

The ENI PoC Review Team will send an email to the 'ENI\_POC@LIST.ETSI.ORG' list to announce each accepted ENI ISG PoC Proposal to the ENI ISG community. Keep a "List of Accepted Proposals" on the ETSI ENI Wiki page.

The ENI PoC Review Team will post accepted ENI ISG PoC Proposals on a publicly accessible ETSI ENI ISG portal.

Accepted ENI ISG PoC Proposals are expected to be executed by the PoC Team and a PoC Report is also expected to be submitted by the PoC Team at completion.

### 4.4.3 Rejected ENI ISG PoC Proposals

The ENI PoC Review Team will send an email to the PoC Team to notify them that the ENI 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 ENI ISG on rejected proposals. PoC Teams may submit revised ENI ISG PoC Proposals for future consideration.

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

## 4.5 ENI ISG PoC Proposal Acceptance Criteria

The criteria for acceptance of ENI ISG PoC Proposals are:

- 1) The ENI ISG PoC Proposal shall contain the information requested in the format of the ENI ISG PoC Proposal Template of clause A.1, referred to as the PoC Team. This will be checked by ETSI CTI and the PoC Review Team.

- 2) The organizations participating in an PoC Team shall 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 shall be a member of the ENI ISG (refer to clause A.1.1). The ENI ISG PoC Team proposal shall address at least one goal relevant to ENI related with an ENI Use Case [3], an ENI Requirement [1] or the suitability of an ENI System Architecture [4] aspect (refer to clause A.1.3.1).
- 3) The output of the PoC shall provide feedback to the ISG ENI in order to support the improvement of the output of the existing WIs. Alignment with existing activities is required.
- 4) All proposed ENI ISG PoC solutions shall allow manual intervention (triage and control) capability at all stages of test and production deployment. This is considered a critical requirement, given uptime considerations and the emerging regulatory environment for ENI solutions.
- 5) The ENI ISG PoC shall provide definitions and illustrations of the underlying AI/ML architectures, and utilize common/accessible programming languages. This will guarantee the level of transparency required for quick identification and resolution of technical issues.
- 6) The ENI ISG PoC Team proposal shall indicate the venue where the PoC will be demonstrated (e.g. PoC Team member lab, industry trade show, etc.) (refer to clause A.1.5).
- 7) A PoC Team project timeline shall be provided (refer to clause A.1.4).
- 8) Description of testing methods, how they are performed, and concrete measurement processes with expected measures should be indicated.

NOTE: This last requirement/guideline 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 ENI ISG PoC Proposal which meets these required elements will be accepted.

A summary table of Use Cases from [3] and requirements [1] is shown in table 1.

**Table 1: Summary of the ENI Use Cases and Requirements**

	Level 1	Level 2
Use Case	<b>Network Operations</b>	Policy-driven IP managed networks
		Radio coverage and capacity optimization
		Intelligent software rollouts
		Intelligent fronthaul management and orchestration
		Elastic Resource Management and Orchestration
		Application Characteristic based Network Operation
		AI enabled network traffic classification
		Automatic service and resource design framework for cloud service
	Intelligent time synchronization of network	
	<b>Service Orchestration and Management</b>	Context aware VoLTE service experience optimization
		Intelligent network slicing management
		Intelligent carrier-managed SD-WAN
	<b>Assurance</b>	Intelligent caching based on prediction of content popularity
		Network fault identification and prediction
		Assurance of service requirements
	<b>Infrastructure Management</b>	Network fault root-cause analysis and intelligent recovery
		Policy-driven IDC traffic steering
Handling of peak planned occurrences		
<b>Network Security</b>	Energy optimization using AI	
	Policy-based network slicing for IoT security	
	Limiting profit in cyber-attacks	

	Level 1	Level 2
Requirement	Service and network requirements	General requirements
		Service orchestration and management
		Network planning and deployment
		Network optimization
		Resilience and reliability
		Security and privacy
	Functional requirements	Data Collection and Analysis
		Policy Management
		Data Learning
		Interworking with Other Systems
		Mode of operations
	Non-functional requirements	Model training and iterative optimization
		Performance requirements
		Operational requirements
		Regulatory requirements
	Non-functional policy requirements	

At least one of the External Reference points as enumerated in ETSI GS ENI 005 [4] will also be shown and tested.

## 4.6 ENI ISG PoC Report

Once an ENI ISG PoC Team project is concluded, a ENI ISG PoC Report with the PoC results is expected to be provided to ENI ISG as a contribution to an ISG ENI face to face meeting or be announced on the 'ISG\_ENI@list.etsi.org' mailing list. A PoC Wiki section of the ETSI portal via a link on the ENI home page will also indicate this report.

An ENI ISG PoC Report should contain the information requested in the ENI ISG PoC Report Template of clause B.1 to notify the ENI ISG that the PoC Team has completed their PoC Project. PoC Teams are encouraged to provide additional technical details on the results of their PoC Project using the report format provided in clause B.2.

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

The ENI PoC Review Team will present a list of all the ENI ISG PoC Reports to the ISG Plenary after proper evaluation of contents.

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## 5 Overall Roles and Activities within PoCs

### 5.1 General

ENI ISG participants activities when forming PoC Teams and executing PoC Projects are outside the scope of the ENI ISG. The ENI ISG shall not manage individual PoC Projects nor get involved in forming PoC Teams or executing ENI ISG PoC Proposals.

### 5.2 ETSI CTI Role

The ETSI Centre for Testing and Interoperability (CTI) has experience in supporting the organization of technology evaluations and interoperability events (in many ways similar to PoCs). This experience may be useful in assisting the PoC Teams with administration and project management support including:

- Formation of the PoC Team.
- Preparation of the ENI ISG PoC proposal.
- Development of the ENI ISG PoC Scenario Report.
- Collecting and reporting results in a PoC Report.

- Providing feedback to the ISG.
- Administration, logistics, etc.

CTI is not a test lab. CTI assistance is free of charge for ISG participants. ISG participants may request CTI assistance by contacting '[CTI\\_Support@etsi.org](mailto:CTI_Support@etsi.org)' by email where the subject should include [ENI ISG PoC].

PoC Team members are not required to make use of CTI support. Other ISG members or commercial entities may provide additional or similar services.

### 5.3 Other roles and responsibilities

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

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

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

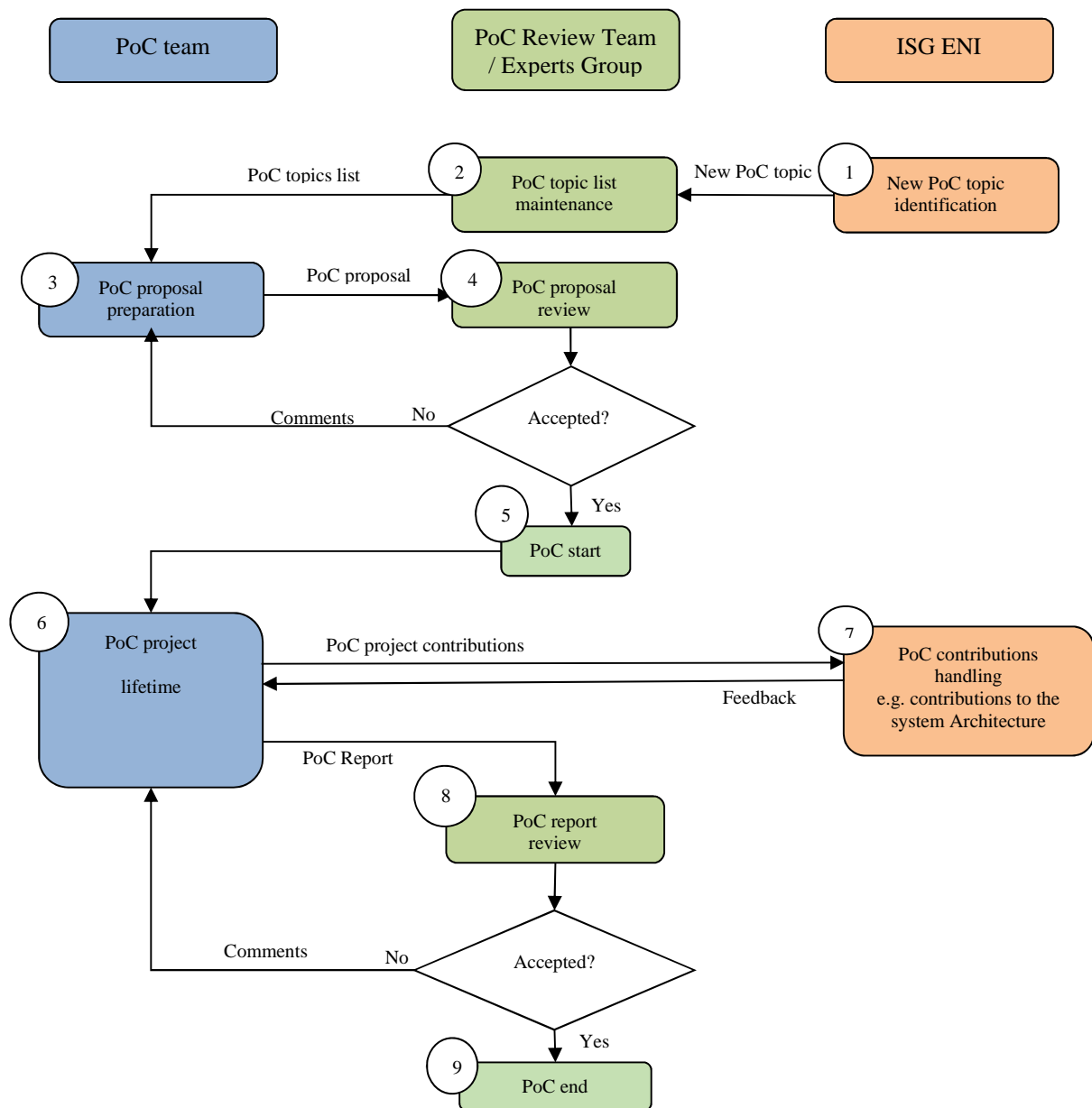
- maintaining and making available the PoC topics;
- providing guidance and support during the creation of PoC proposals;
- reviewing PoC proposals and PoC reports against the acceptance criteria;
- declaring the acceptance/refusal of each PoC;
- notifying acceptance/refusal of each PoC in the ENI\_POC@list.etsi.org'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

**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 ISG ENI.

## 5.4 PoC activity process

Figure 1 provides a description of the PoC activity process.



**Figure 1: PoC Activity Process**

## Annex A (normative): ENI ISG - PoC Proposal Template

### A.1 PoC Project Details

#### A.1.1 PoC Project

PoC Number (assigned by ETSI):

PoC Project Name:

PoC Project Host:

Short Description:

#### A.1.2 PoC Team Members

Table A.1

	Organization name	ISG ENI 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 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 [3] and/or requirement [1] and report on the suitability of [4] as described in clause 4.x.x bullet x.

##### A.1.3.2 PoC Topics

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

Table A.2

PoC Topic Description (see note)	Related WI	Expected Contribution	Target Date

NOTE: This column should be filled according to the contents of table 1.

### A.1.3.3 Other topics in scope

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

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

For example, URL, planned publications, conferences, etc.

## 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 fit in the PoC architecture.

### A.2.3 PoC Success Criteria

Explain how the proposal intends to verify that the goals are presented in clause A.1.2 have been met.

EXAMPLE: Functional (it worked, it did not work), Performance (transactions per second, throughput, processing per second, packet per second, etc.), Scalability, Availability, Service Quality.

### A.2.4 Additional information

Include additional information as useful.



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## Annex B (normative): ENI ISG PoC Report Template

### B.1 General

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

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

---

### B.2 ENI 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 ENI PoC Project Participants

Specify PoC Team; indicate any changes from the ENI 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 demonstrated with evidences extracted from the demonstration, i.e. the following information should be provided:

- details on 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 ENI ISG PoC Proposal (clause A.1.2). Identify any changes from the original ENI 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.

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## B.3 ENI 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.

### B.3.2 PoC Contribution to ENI ISG

Use table B.1 to list any contributions to the ENI ISG resulting from this PoC Project.

**Table B.1**

Contribution	WG	WI/Document Ref	Comments
Xxxxxx		ETSI GS ENI 001 [3]	<i>i.e. "New test proposal covering a different type of workload and proposing additional parameters for the portability templates"</i>
Yyyyy			<i>i.e. "New WI proposal addressing ...."</i>
...			

### B.3.3 Gaps identified in ENI 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 ENI ISG should take.

**Table B.2**

Gap Identified	Forum (ENI ISG, Other)	Affected WG	WI/Document Ref	Gap details and Status
Xxxxxx	ENI		ETSI GS ENI 001 [3]	<i>i.e. "The PoC demonstrated that Dynamic reconfiguration of Service Chain as defined in xxx does not address the needs of vMME implementation. Gap is addressed by Mano WG"</i>
Yyyyy				
...				

### B.3.4 PoC Suggested Action Items

Provide suggested Action Items and/or further work required from the ENI ISG and/or external forums.

### B.3.5 Additional messages to ENI

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

### B.3.6 Additional messages to Network Operators and Service Providers

If applicable, provide any specific requests/messages that the team would like to convey to Network Operators and Service Providers.

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## History

<b>Document history</b>		
V1.1.1	May 2018	Publication
V2.1.1	May 2020	Publication