



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

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Reference

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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 framework for use within ETSI ENI ISG to coordinate and promote public demonstrations of Proof of Concept (PoC) validating key technical components developed in ENI.

The objective for the PoCs is to build commercial awareness and confidence and encourage development of an open ecosystem by integrating components from different players.

This framework outlines:

- rationale for ENI ISG PoCs;
- 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.

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# 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.

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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] 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).

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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 GS ENI 005: "Experiential Networked Intelligence (ENI); System Architecture".
- [i.2] ETSI GR ENI 004: "Experiential Networked Intelligence (ENI); Terminology for Main Concepts in ENI".

[i.3]

ETSI GR ENI 001: "Experiential Networked Intelligence (ENI); ENI use cases".

## 3 Definitions and abbreviations

### 3.1 Definitions

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

**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 [2]).

**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 [2]).

### 3.2 Abbreviations

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

AI	Artificial Intelligence
EG	Expert Group
ENI	Experiential Network Intelligence
IDC	Internet Data Centre
IP	Internet Protocol
PoC	Proof of Concept
SD-WAN	Software Defined - Wide Area Network
URL	Universal Resource Location
WG	Working Group

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## 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 just address automation, but rather, assists decision-making of humans as well as machines, 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 helps to build commercial awareness and confidence in this ENI approach, and helps to develop a diverse, open, ENI ecosystem. Any given PoC demonstration event impacts its immediate audience, but the cumulative set of PoC demonstration events provides a measure of industry impact from these ENI concepts.

The PoCs shall be scoped taking the ENI use cases as a working basis and address the technical challenges and approaches being progressed.

### 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. 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.

ETSI Centre for Testing and Interoperability (CTI) will further evaluate the PoC according to the criteria acceptance principles and provide the ENI PoC Review Team with a confirmation of meeting the acceptance criteria (as in clause 5.1) as required by clause 4.5.

The ENI PoC Review Team will provide a response to the PoC Team within 30 days after receipt of the ENI ISG PoC proposal.

#### 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).
- 3) The ENI ISG PoC Team proposal shall address at least one goal relevant to ENI i.e. related with an ENI Use Cases [i.3], an ENI Requirements [1] or the suitability of an ENI System Architecture [i.1] aspect (refer to clause A.1.3.1). The output of the PoC should provide feedback to the ISG ENI that should support the improvement of the output of the existing WIs. Alignment with existing activities is required.
- 4) 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).
- 5) A PoC Team project timeline shall be provided (refer to clause A.1.4).

Any ENI ISG PoC Proposal which meets these required elements will be accepted.