

Title*: Interim report on ENI PoC project #1

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input for **Committee*:** ENI

Contribution For*:	Decision	
	Discussion	
	Information	X

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Meeting & Allocation: **ENI#7** -
 Relevant WI(s), or
 deliverable(s):

ABSTRACT: This is the interim report on ENI PoC project #1.

1. Achievement of PoC Goals

In the PoC proposal, we have two PoC goals as follows:

- PoC Project Goal #1: Demonstrate the use of intent-based interface to translate tenant requirements to network slice configuration and intelligent network slice lifecycle management on demand.
- PoC Project Goal #2: Demonstrate the use of AI to predict the change of traffic pattern and adjust the configuration of network slice in advance.

Currently, we have accomplished the demonstration of PoC Project Goal#2 within transport network domain.

2. Accomplishment of PoC Project Milestones

According to the proposed milestones, the detailed progress of this PoC project is shown as follows, in which the completed items are marked in green.

PoC Milestone	Milestone description	Target Date	Additional Info
P.S	PoC Project Submission	11/05/2018	
P.TP.1	PoC user story	30/06/2018	High level description of E2E Network Slice, 5G end-to-end Slice and 5G IoT applications (Smart Insurance) slices deployments User Story
P.TP.2	PoC Test Plan 1	31/07/2018	Transport Network Slice Manager (TNSM) module and intelligence module joint test and deployment
P.TP.3	PoC Test Plan 2	31/09/2018	TNSM module, Core Network Slice Manager (CNSM) module and intelligence module joint test and deployment
P.P.1	PoC Presentation	31/10/2018	Publish Joint White Paper by all the stakeholders
P.D1	PoC Demo 1	1-31/09/2018	Webinar demo at China Telecom Beijing Research Institute forum, Partner's premises
P.D2	PoC Demo 2	1-31/09/2018	Webinar demo at ETSI ENI#07 meeting place

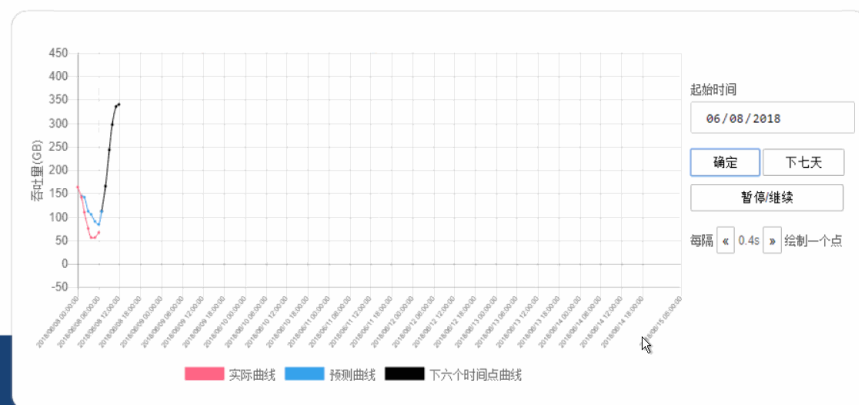
P.D3	PoC Demo 3	1-31/11/2018	Webinar demo at China Telecom exhibition hall, Partner's premises
P.C1	PoC Committed Contribution 1	31/12/2018	Demonstration of the integration of ENI intelligent service deployment in a network slicing context.
P.C2	PoC Committed Contribution 2	31/12/2018	Intent NBI Demonstration in the network slicing scenario
P.C3	PoC Committed Contribution 3	31/12/2018	Network traffic prediction Demonstration in the network slicing scenario
P.C4	PoC Committed Contribution 4	31/12/2018	PoC-Demos Feedback report
P.R	PoC Report Project End	31/03/2019	PoC-Project-End Feedback
P.E	PoC Project End	31/03/2019	
PE.1	PoC Final report presented to ISG ENI for information	31/03/2019	presented to ISG ENI for information

3. PoC Demo Introduction

We will have two portal UIs for this Demo. The first UI is for the AI based Intelligence Module, displaying traffic collection and prediction results of the network traffic throughput.



基于人工智能的流量预测系统



The second UI is for the transport network slicing, with the functionalities of slice creation, adjustment, and monitoring.

In the traffic monitoring page for transport network slicing UI, automatic execution of bandwidth adjustment driven by intelligent policy based on network throughput prediction can be shown.