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| **Title\*:** | Technology Workshop Meeting agenda “Machine Learning in communication networks”ETSI ENI, SAI & ITU-T SG13 Q20, FG ML5G |
| from **Source**\*: | ENI Chairman |
| Contact: | Raymond Forbes |
|  |  |
| input for **Committee**\***:** | ENI |
|  |  |
| Contribution **For\*:** | Decision | **X** |  |
|  | Discussion |  |  |
|  | Information |  |  |
|  |  |
| Submission date**\***: | 2020-02-16 |
|  |  |
| Meeting & Allocation: | **ENI Workshop**  |
| Relevant WI(s), or deliverable(s): |   |
|  |

**Decision/action requested:** Please approve

**Title:** Machine Learning in communication networks

**Scope:** This Workshop will address ML/AI in ETSI & ITU-T 5G explore synergies, working together, removal of any overlaps, that ETSI ISG, ENI ISG SAI, ITU-T SG13 Q20, FG ML5G are addressing. This workshop will investigate the possibilities for technical co-operation between ENI, SAI, SG13 Q20 & FG ML5G. Also will aim to develop a roadmap of future actions and ways of working together.

Candidate issues for discussion include:

Use Case & possible gaps (Additional Use Cases, Mapping of ENI, ZSM, ML5G;

 Completing the information flows in all Use Cases)

Intelligent policy management & resource management:

Radio access networks, transport networks, etc..

 Models and Techniques in general

 Architectures (functional and reference points & modelling)

 Architectural Modelling: Benchmarks, KPIs, distributed architectures

 Interoperability & Simulations (PoCs, Testing and Open Source)

 Benefits of standards & competition:

Written standards or things open to differentiation,

Open Source (OTS implementations):

 Linux Foundation

 Eclipse Foundation

 Cooperation and or contribution to 3GPP (S2 ENA, NWDAP, etc..)

 Vertical industries

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| **AGENDA “**Machine Learning in communication networks**” – Monday, 16th March 2020**  |
| **Time**  | **Topic and Description**  |  |
| **09:00 – 11.00(30 minutes each)** | **Session 1**: ETSI1. ETSI ENI intro presentation
2. ENI member - PoC project: Intelligent Network Slice Lifecycle Management
3. ETSI SAI intro presentation
 | Raymond ForbesCaiShengming (remote)Will Liu/Haining WangScott Cadzow (on behalf of Alex Leadbetter) |
| **11.00 – 11:30** |  | **Break**  |
| **11:30 – 13:00****(45 minutes each)** | **Session 2**: ITU-T 1. 5G and beyond – where are we and what is next
2. ITU-T FG ML5G / SG13
	* ML/AI
	* Scope, work, output
	* 5G AI
	* Campus networks
 | Reinhard (remote)Prof Slawomir Stanczak Vishnu Ram / Marco Carugi  |
| **13.00 – 14:30** |  | **Lunch**  |
| **14:30 – 16.00** | **Session 3:**1. **Cooperation up to now SG13/ENI - ITU-T/ETSI**
2. **Discussion around work-plans**
* **Use Case & possible gaps (Additional Use Cases, Mapping of ENI, ZSM, ML5G;**
	+ **Completing the information flows in all Use Cases)**
* **Intelligent policy management & resource management:**
	+ **Radio access networks, transport networks, etc..**
* **Models and Techniques in general**
* **Architectures (functional and reference points & modelling):**
	+ **Architectural Modelling: Benchmarks, KPIs, distributed architectures**
* **Interoperability & Simulations (PoCs, Testing and Open Source)**
* **Benefits of standards & competition:**
	+ **Written standards or things open to differentiation,**
	+ **Open Source (OTS implementations):**

**Linux Foundation****Eclipse Foundation** * **Cooperation and or contribution to 3GPP (S2 ENA, NWDAP, etc..)**
* **Vertical industries**
1. **Industry requirements**
 | Luca (moderator) Vishnu Ram (remote) "scribe"Open discussion (everyone)Named volunteers to open each subject with one question per topic?Road-map on collaboration * Synergies / complementary
	+ Fit-together / jigsaw
* Divergent areas
	+ Factual
	+ Competitive
	+ Usable standards
	+ Timeline analysis
* Joint working
* Priorities
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| **16.00 – 16.30** |  | **Break**  |
| **16.30 – 17.00** | **Session 4: Conclusions** | ENI Chairman |
| **16.30** |  | **End** |