

# Intelligent Networking, AI and Machine Learning White Paper - A Telecommunications Operator's Perspective

## Contents

[1.Key Takeaways](#)

[2.Overview](#)

[3.Problem Statement](#)

[4.Survey Says-Current State of the Industry](#)

[5.Intelligent Networking Challenges](#)

[6.Feasibility](#)

[7.Next Steps and Recommended Actions](#)

[8.Conclusion and Call to Action](#)

[9.Extra Text](#)

## Revision History and control

Rev	Date	Author	Description	Reviewed	Approved by
v10	27 Sept 2021	Beth Cohen (Verizon)	Edited for readability – Final Review Needed		
v09	26 Sept 2021	Beth Cohen (Verizon)	Edited all the materials together		
v08	14 Sep 2021	Yuhan ZhangCMCC	Revising the structure and content of the white paper		
		Lingli Deng(CMCC)	Adding recommendations for the intelligent networking transformation		
		Kaixi Liu(CMCC)			
V07	17 Aug 2021	Yuhan ZhangCMCC	merged with v06		
V06	03 Aug 2021	Beth Cohen (Verizon)	Updates by Steve Casey (Verizon) Not merged with the work by Yuhan yes.		
V05	03 Aug 2021	Yuhan ZhangCMCC	Recommendation for network intelligence testing and certification	EUAG Team	
V04	20 Jul 2021	Yuhan ZhangCMCC	survey results, challenge	EUAG Team	
V03	24 May 2021	Massimo Banzi (TI)	Definition sections, survey analysis	EUAG Team	Uploaded
		Beth Cohen (Verizon)			
		Steve Casey (Verizon)			
V01	15Apr2021	Beth Cohen (Verizon)	Creation of original document and outline of paper.	EUAG Team	
V02	13May2021	Beth Cohen (Verizon)	Outline with some text. Asking for input from the EUAG Team	EUAG Team	

### White Paper Assumptions and Overall Objectives:

- Audience: Technical and strategic leaders in the Telecom Industry interested in understanding the role of intelligent tools, AI and machine learning can have in support of their network infrastructure, customer .
- 7-10 Pages in length total – possibly will be some separate related papers on specific use cases and other information that does not fit into this one
- Do not declare or propose a definite solution just share EUAG Operator community point of view
- Purpose of White Paper is to share information about EUAG member companies' approaches to network intelligence

### Paper Overview

- Based on the findings of a LFN sponsored survey of over 60 operators and vendors in the telecom segment, demonstrate the current state of adoption of the AI/ML technology for operators.
- Make recommendations for where Open Source communities should be focusing their resources to further the intelligent networking efforts.
- Call to action: Market and executive orientation. Purpose is to get people excited about Intelligent Networking as emerging technology and its importance, yet have an understanding of where the gaps are in both the technology and its adoption.. Bullet list of gaps. 2-3 bullet items. Identify missing Open-Source tools and potential projects.

## Survey - AI/ML Survey (Result & Analysis)

@Yuhan Zhang [Beth Cohen](#)

Uploaded current version of paper



Table for contributors to white paper and status

Contributors/CSPs	Sections	Status	Comments
<a href="#">Beth Cohen</a> (Verizon)	Section 1-9	Created first draft	Posted first draft to this page.
Yuhan Zhang (China Mobile)	Section 1-9		
<a href="#">Lei Huang</a> (China Mobile)	Section 1-9		Created workspace in confluence page
<a href="#">Massimo Banzi</a> (STC)	TBA		
<a href="#">Steve Casey (Verizon)</a>	TBA		

Timeline

Work Items	Time
Complete the paper final draft	Sep 13th,2021
EUAG review and final version	Sep 17th,2021
Share a form paper MAC magic	Sep 24th,2021
Publication	Oct 8th,2021
ONES Summit White Paper Webinars	Oct & Nov,2021