

ETS

ENI PoC #17: Intelligent Satellite-Terrestrial Integration Network Architecture Progress Update

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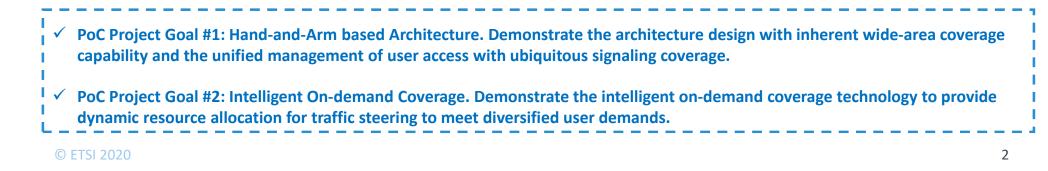
# ENI PoC project #17: Intelligent Satellite-Terrestrial Integration Network Architecture



### **PoC Goals and PoC member task**

Host/Team Leader:





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## ENI PoC project #17: Intelligent Satellite-Terrestrial Integration Network Architecture

### China Telecom launched the world's first "mobile phone directly connected to satellite" service

The ability of mass consumer mobile phones to directly connect to satellites is a key part of the integration of scene integration, terminal integration, user integration and system integration of space and earth. 5G NTN is one of the technical directions of mobile phone direct connection to satellites, and the ultimate goal of evolution is 6G satellite-ground convergence communication, to achieve seamless access for anyone at any place and at any time, and finally move towards system integration, it is necessary to form heterogeneous access between non-terrestrial network equipment and terrestrial cellular network equipment, and the design includes unified air interface transmission

**China Telecom 5G NTN network architecture** 



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### China Mobile to provide 5G+ GPS HD service

China Mobile carried out terminal preset highprecision positioning services in 2023 to ensure that centimeter-level positioning accuracy can be achieved at start-up, promote the reduction of operation and maintenance and after-sales costs in the surveying and mapping industry, and improve the efficiency of surveying and mapping operations.



China mobile 5G + Satellite application



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## **PoC Milestones and Current Progress**

	PoC Milestone	Stages/Milestone description	Target Date	Additional Info
	P.S	PoC project submission	09/2023	Presentation during #ENI 27
	P.TP.1	PoC Test Plan 1	12/2023	Initial testbed up and running
Current	P.D1	PoC Demo 1	12/2023	Webinar demo at the ENI#28 plenary meeting
Target	P.D2	PoC Demo 2	<del>06/2024</del>	Demo at shanghai MWC2024
	P.D3	PoC Demo 3	TBD	Demo at Intel AI summit
	P.C1	PoC Expected Contribution 1	05/2024	Contributions to ENI use case
	P.C2	PoC Expected Contribution 2	07/2024	Contributions to ENI requirement
	P.C3	PoC Expected Contribution 4	07/2024	Contributions to ENI terminology
	P.C4	PoC Expected Contribution 5	09/2024	Contributions to ENI data mechanism
	P.R	PoC Report	09/2024	PoC-Project-End Feedback
	P.E	PoC Project End	12/2024	Presented to ISG ENI for information