

## Terms of Reference (ToR) for ETSI ISG “Non-IP Networking” (NIN)

Approved by the Director-General on **11 February 2020**, following ETSI Board consultation

### Scope

ISG NIN will concentrate on candidate network protocol technologies that could be alternatives to TCP/IP.

ISG NIN intends to work on:

- documenting the requirements for the network protocols that can natively and efficiently support the evolving demands of infoComms towards 2030 and beyond;
- documenting the eventual shortcomings that currently exist or are likely to emerge in current network protocols; and
- formulating a series of Group Specifications defining new protocols that can meet the requirements for future networks.

The activities of ISG NIN include the following broad areas:

- Areas of work to include (but not limited to):
  - extension of the technology specified in GS NGP 013 to the RAN
  - control plane protocols and network management
  - addressing and identification
  - timing and synchronisation
  - security and privacy
  - interworking with legacy systems
  - Test results and proof points:
    - benchmark against the KPIs published in GS NGP 012, in order to demonstrate benefit in comparison to current network protocols
    - interworking and coexistence between NIN and IP-based domains
    - implementation guidelines and considerations, including interoperability test cases
    - interoperability Plugtests
    - publication of test results

Outreach and engagement

- renewed ETSI web and Portal materials, reflecting the new focus
- drive for more operator and network equipment vendor ISG members
- drive for members from industry sectors that have a need for private networks supporting mMTC and/or URLLC
- conference speaking and communications activities

## **Annex (informative): collaboration with other bodies**

ISG NIN will set up appropriate communication channels to the following groups:

### **ETSI groups**

- EPP 3GPP
- ISG F5G
- ISG IP6
- TC CYBER
- TC NTECH

and others as identified during the progression of the work.

### **External groups**

- AES SC-02-12
- IEC TC9
- IEC TC100
- IETF
- IRTF
- ISO/IEC JTC1/SC6
- ITU-T SG13
- SMPTE 32NF

and others as identified during the progression of the work.