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**Telecommunications and information  
exchange between systems — Future  
network protocols and mechanisms —**

Part 3:  
**Networking of everything**

*Télécommunications et échange d'informations entre systèmes —  
Futurs protocoles et mécanismes de réseau —*

*Partie 3: Réseautique universelle*





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## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

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Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html) and [www.iec.ch/national-committees](http://www.iec.ch/national-committees).

## Introduction

ISO/IEC TR 29181 is a series of standards on Future Network (FN). The subject of ISO/IEC TR 29181-9 is Networking of Everything (NoE).

ISO/IEC 21558-3<sup>1)</sup> specifies the architecture of the FN-NoE to provide further advanced NoE services identified in ISO/IEC TR 29181-9.

This document focuses on the FN-NoE protocols and mechanisms, consisting of functional procedures, service interfaces, and protocols, to provide the thing-user centric communication service upon the FN-NoE architecture defined in ISO/IEC 21558-3.

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1) Under preparation. Stage at the time of publication: ISO/IEC PRF 21558-3.

# Telecommunications and information exchange between systems — Future network protocols and mechanisms —

## Part 3: Networking of everything

### 1 Scope

This document specifies:

- functional procedures to provide thing-user social networking and proximity defined networking;
- service access interfaces and protocols to support the FN-NoE functional procedure.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 21558-3:2022, *Telecommunications and information exchange between systems — Future network architecture — Part 3: Networking of everything*

ISO/IEC/TR 29181-9:2017, *Information technology — Future Network — Problem statement and requirements — Part 9: Networking of everything*