
**Information technology —
Telecommunications and information
exchange between systems — Near
field communication interface and
protocol 2 (NFCIP-2)**

*Technologies de l'information — Télécommunications et échange
d'information entre systèmes — Interface et protocole 2 en
communication de champ proche (NFCIP-2)*

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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	2
5 Conventions and notations	2
6 NFCIP-2 device	2
7 External RF field detection	3
8 RF field generation	3
9 Mode selection and switching	3
Bibliography	5

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives or www.iec.ch/members_experts/refdocs).

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology, Subcommittee SC 6, Telecommunications and information exchange between systems*.

This third edition cancels and replaces the second edition (ISO/IEC 21481:2012), which has been technically revised.

The main change compared to the previous edition is the improvement of the specification of the mode selection and switching mechanism.

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 and www.iec.ch/national-committees.

Introduction

In 2002, Ecma International formed Task Group 19 of Technical Committee 32 to specify near field communication (NFC) signal interfaces and protocols. The NFC devices are wireless, closely-coupled devices communicating at 13,56 MHz.

Although ISO/IEC 18092 (NFCIP-1), ISO/IEC 14443 and ISO/IEC 15693 all specify 13,56 MHz as their working frequency, they specify distinct communication modes. These are defined as NFC, PCD, PICC and VCD communication modes.

This document (NFCIP-2) specifies the mechanism to detect an external RF field and select one communication mode out of those four possible communication modes. Furthermore, NFCIP-2 requires that subsequent behaviour be as specified in the standard specifying the selected communication mode.

In 2018, the work to revise this document started to improve mode selection and switching to address latest use cases. Furthermore, harmonization with NFC Forum requirement specification is intended.

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