
**Information technology — Distributed
Application Platforms and Services
(DAPS) — Access Systems**

*Technologies de l'information — Services et plate-formes d'application
distribuées — Systèmes d'accès*

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Foreword

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ISO/IEC 20933 was prepared by Ecma International (as ECMA-412) and was adopted, under a special "fast-track procedure", by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

Introduction

Technology for real-time access control is widely used for many situations such as entrance gate of facilities and service access control systems. Membership and settlement services also benefit from real-time access control systems connected via networks and using database information.

Sophisticated cloud, virtualisation, database, networking technology and services and the evolution of authentication technology such as biometrics, NFC, QR codes used in distributed and modular access control systems enable previously underserved users and operators to innovate around new use cases.

Taking into account the many technologies, this International Standard specifies the reference model and common control functions. It gives direction for ongoing innovation and development of technology and system integration of distributed real-time access control system.

Withdrawal

Information technology — Distributed Application Platforms and Services (DAPS) — Access Systems

1 Scope

This International Standard specifies:

- 1) an ID triggered modular access system, the functions of the modules and the messages they exchange, and the sequence of messages, i.e. transitions of the transaction;
- 2) the system responsibility from receiving an access request until sending the result, i.e. a complete transaction;
- 3) the responsibilities of the modules, including time stamping and responding to the requests they received; and
- 4) the sequence and semantics of the messages and their elements.

2 Conformance

Conformant Access Systems progress transactions by evaluating the applicable rules. Conformant modules implement the requests on their interfaces, the corresponding responses and time stamping as specified herein.

3 Normative references

None.