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**Information technology — Automatic  
identification and data capture  
technique — Identifier resolution protocol  
for multimedia information access  
triggered by tag-based identification**

*Technologies de l'information — Techniques automatiques  
d'identification et de capture des données — Protocole de résolution  
d'identification de l'accès à des données multimédia déclenché par une  
identification basée sur des labels*

Withhold

Withdrawn



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## Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 29177 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 31, *Automatic identification and data capture techniques*, in collaboration with ITU-T. The identical text is published as ITU-T H.642.3 (06/2012).

Withhold

I n t e r n a t i o n a l T e l e c o m m u n i c a t i o n U n i o n

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TELECOMMUNICATION  
STANDARDIZATION SECTOR  
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(06/2012)

SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

Broadband, triple-play and advanced multimedia  
services – Ubiquitous sensor network applications and  
Internet of Things

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**Information technology – Automatic  
identification and data capture technique –  
Identifier resolution protocol for multimedia  
information access triggered by tag-based  
identification**

Recommendation ITU-T H.642.3

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For further details, please refer to the list of ITU-T Recommendations.

INTERNATIONAL STANDARD ISO/IEC 29177  
RECOMMENDATION ITU-T H.642.3

**Information technology – Automatic identification and data capture technique –  
Identifier resolution protocol for multimedia information access triggered  
by tag-based identification**

**Summary**

Recommendation ITU-T H.642.3 | ISO/IEC 29177 specifies the identifier (ID) resolution protocol for multimedia information access triggered by tag-based identification. This ID resolution protocol is used to retrieve the location and access method of the multimedia information associated with an ID.

**History**

Edition	Recommendation	Approval	Study Group
1.0	ITU-T H.642.3	2012-06-29	16

**Keywords**

Identifier, IRP, resolution, tag-based identification.

## FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

## NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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As of the date of approval of this Recommendation, ITU had received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at <http://www.itu.int/ITU-T/ipr/>.

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## Introduction

This Recommendation | International Standard specifies the identifier (ID) resolution protocol (IRP). This ID resolution protocol is used to retrieve the location and access method of the multimedia information associated with an ID.

Clause 6 provides an overview of the ID resolution protocol.

Clause 7 specifies the application-specific OID resolution process which will follow the general OID resolution process defined in Rec. ITU-T X.672 | ISO/IEC 29168-1.

Clause 8 specifies the ID resolution process.

There are alternative techniques to meet the use case addressed by this Recommendation | International Standard. One of those techniques is the use of the Electronic Product Code (EPC) and the Object Name Service (ONS). Those interested in this technique are encouraged to consult the documents in the Bibliography for further information.

Withdrawn

## INTERNATIONAL STANDARD

## ITU-T RECOMMENDATION

**Information technology – Automatic identification and data capture technique – Identifier resolution protocol for multimedia information access triggered by tag-based identification****1 Scope**

This Recommendation | International Standard defines the identifier (ID) resolution protocol for multimedia information access triggered by tag-based identification which is described in Recommendations ITU-T F.771 and ITU-T H.621.

The identifier resolution protocol (IRP) in this Recommendation | International Standard consists of two processes: an application-specific object identifier (OID) resolution process which is specified in Rec. ITU-T X.672 | ISO/IEC 29168-1 and an identifier resolution process.

**2 Normative references**

The following Recommendations and International Standards contain provisions which, through reference in this text, constitute provisions of this Recommendation | International Standard. At the time of publication, the editions indicated were valid. All Recommendations and Standards are subject to revision, and parties to agreements based on this Recommendation | International Standard are encouraged to investigate the possibility of applying the most recent edition of the Recommendations and Standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards. The Telecommunication Standardization Bureau of the ITU maintains a list of currently valid ITU-T Recommendations.

**2.1 Identical Recommendations | International Standards**

- Recommendation ITU-T X.668 (2009) | ISO/IEC 9834-9:2009, *Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: Registration of object identifier arcs for applications and services using tag-based identification.*
- Recommendation ITU-T X.672 | ISO/IEC 29168-1, *Information technology – Open Systems Interconnection – Object Identifier Resolution System (ORS).*

**2.2 Additional references**

- Recommendation ITU-T F.771 (2008), *Service description and requirements for multimedia information access triggered by tag-based identification.*
- Recommendation ITU-T H.621 (2009), *Architecture of a system for multimedia information access triggered by tag-based identification.*
- IETF RFC 1035:1987, *Domain names – Implementation and specification.*
- IETF RFC 3403:2002, *Dynamic Delegation Discovery System (DDDS) Part Three: The Domain Name System (DNS) Database.*