

praktijkrichtlijn

NPR-ISO/IEC TR 18057 (en)

Information technology -
Telecommunications and information
exchange between systems - Using
ECMA-323 (CSTA XML) in a Voice
Browser Environment (ISO/IEC
TR 18057:2004, IDT)

maart 2004
ICS 35.100.10

Als Nederlandse praktijkrichtlijn is aanvaard:

- ISO/IEC TR 18057:2004, IDT

Nederlands Elektrotechnisch Comité (NEC)

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Voorbeeld
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TECHNICAL
REPORT

ISO/IEC
TR
18057

First edition
2004-02-15

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Information technology —
Telecommunications and information
exchange between systems — Using
ECMA-323 (CSTA XML) in a Voice
Browser Environment

*Technologies de l'information — Télécommunications et échange
d'information entre systèmes — Utilisation de l'ECMA-323 (CSTA XML)
dans un environnement de navigateur de voix*

Reference number
ISO/IEC TR 18057:2004(E)



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Published in Switzerland

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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. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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ISO/IEC TR 18057, which is a Technical Report of type 3, was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

ISO/IEC 18057 was prepared by ECMA (as ECMA TR/85) 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

This Technical Report illustrates how CSTA XML (ECMA-323) can be used in a Voice Browser environment. This TR is part of a suite of ECMA CSTA Phase III Standards and Technical Reports.

All of the Standards and Technical Reports in this Suite are based upon the practical experience of ECMA member companies and each one represents a pragmatic and widely based consensus.

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Information technology — Telecommunications and information exchange between systems — Using ECMA-323 (CSTA XML) in a Voice Browser Environment

1 Scope

Services for Computer Supported Telecommunications Applications are defined by Standard ECMA-269 and the XML Protocol for those services are defined by Standard ECMA-323.

In many cases, applications require only a small subset of the features standardized in CSTA. In a voice browser environment, processing speech (not call control) is usually the major focus of the application. For example, from a CSTA feature perspective, an application may simply need to answer an incoming call and then later clear it. As these speech-centric applications evolve they can use additional, more advanced, features standardized by CSTA that are provided by CSTA-conformant communications platforms.

Since ECMA-269 and ECMA-323 are relatively large standards (combined over 1100 pages), it is a challenge for application developers without prior knowledge of the CSTA standards to know where to find basic concepts that they need to understand in order to implement basic CSTA features.

This TR illustrates how ECMA-323 can be used in a Voice Browser environment. These concepts illustrated in this TR can be applied to any Voice Browser environment that provides an XML-based read/write messaging interface (i.e. CSTA Service Boundary) that supports asynchronous events from a CSTA conformant communication platform. SALT enabled browsers that implement a ECMA-323 interface for call control using the SALT smex mechanism is an example of a browser with this capability.

Throughout this TR the term "ECMA-323 enabled voice browser" is used, in a generic sense, to refer to browser implementation that supports a CSTA conformant ECMA-323 interface.

Examples are provided that show how ECMA-323 can be used in several different environments such as SALT-enabled browsers and CCXML.

2 Normative references

The following referenced documents are indispensable for the application 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.

This TR provides informative examples of how to use ECMA-323 in a Voice Browser environment. The following ECMA Standards should be used as the definitive references for CSTA:

ECMA-269:2002, *Services for Computer Supported Telecommunications Applications (CSTA) Phase III (ISO/IEC 18051:2003)*

ECMA-323:2002, *XML Protocol for Computer Supported Telecommunications Applications (CSTA) Phase III (ISO/IEC 18056:2003)*

ECMA CSTA Standards can be used for call control in many different environments. The following references provide additional information on using the ECMA CSTA Standards in different environments:

SALT Speech language Application Language Tags 1.0 Specification (SALT), SALT Forum, 15 July 2002, (<http://www.saltforum.org>).

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