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Interim Australian Standard™

Transport information and control systems—Reference model architecture(s) for the TICS sector

Part 1: TICS fundamental services

Standards Australia

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Australian Automobile Association

Australian Bus and Coach Association

Australian Electrical and Electronic Manufacturers Association

Australian Information Industry Association

AUSTROADS

Consumers Federation of Australia

Department of Transport and Regional Development (Australia)

Federal Chamber of Automotive Industries

ITS Australia

Ministry of Transport New Zealand

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PREFACE

This Interim Standard was prepared by the Standards Australia Committee IT-023, Transport Information and Control Systems. This Interim Standard is identical with and has been reproduced from ISO TR 14813-1:1999, *Transport information and control systems—Reference model architecture(s) for the TICS sector*, Part 1: *TICS fundamental services*.

Standards Australia invites comment on this Interim Standard from persons and organizations concerned with the subject. The date for expiry is two years after publication, at which time this Interim Standard will be confirmed, withdrawn or revised in the light of comment. The closing date for comment is 18 months after publication at which time the Committee will either consider its withdrawal at the end of its two years life or review it in the light of public comment, with the view to the publication of an Australian Standard before the expiry date.

During the life of this document the Committee will monitor all comment as it is received.

Attention is drawn to the fact that this document is an Interim Australian Standard and should be regarded as a developmental Standard liable to future alteration.

The objective of this Interim Standard is to give designers of transport information and control systems a specification to identify the fundamental services within the current perception of the transport information and control systems sector. The services are identified in a common descriptive basis and categorized into logical groups.

This Interim Standard is Part 1 of AS 14813, *Transport information and control systems—Reference model architecture(s) for the TICS sector*, which is published in parts as follows:

Part 1: TICS fundamental services (this Standard)
Part 2: Core TICS reference architecture
Part 3: Example elaboration
Part 4: Reference model tutorial
Part 5: Requirements for architecture description in TICS Standards
Part 6: Data presentation in ASN.1

As this Interim Standard is reproduced from an International Standard, the following applies:

(a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.

(b) In the source text ‘this International Standard’ should read ‘this Australian Standard’.

(c) A full point should be substituted for a comma when referring to a decimal marker.

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Part 1:
TICS fundamental services

1 Scope

This part of ISO/TR 14813 provides definitions of the fundamental informational products or services or applications areas provided to a TICS user. These are described as “TICS Fundamental Services”. This part of ISO/TR 14813 identifies 32 TICS fundamental services. If further fundamental services are subsequently identified as the sector develops, it is the intention that this part of ISO/TR 14813 shall be revised to include them.

This part of ISO/TR 14813 is applicable to the Working Groups of ISO/TC 204 and other TCs who are developing standards for the TICS sector and associated sectors whose boundaries cross into the TICS sector (such as urban light railways, intermodal freight and fleet. This part of ISO/TR 14813 is designed to provide information and explanation to those developing TICS Standards and to those developing specifications, implementations and deployments for Transport Information and Control Systems.

This part of ISO/TR 14813 is in itself, by its nature, advisory and informative. It is designed to assist the integration of services into a cohesive Reference Architecture, assist interoperability and common data definition.

2 Definitions

For the purposes of this part of ISO/TR 14813, the following terms and definitions apply.

2.1
TICS fundamental service
an informational product or service or application area provided to a TICS user

2.2
TICS user
one who directly receives and can act on TICS data or control products

2.3
External TICS user
one who receives a TICS fundamental service through interaction with the TICS system by way of a TICS External Interface

NOTE The external interfaces and the external users define the boundary of the TICS sector. These users of the fundamental services may be human or systems. They may simultaneously use the services of non-TICS systems.

2.4
Internal TICS user
one who receives a TICS fundamental service through interaction with the TICS system by way of an Internal-Internal Interface