AS 5552—2013


# E-health secure message delivery

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Australian Standard®

# E-health secure message delivery

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# PREFACE

This Standard was prepared by Standards Australia Technical Committee IT-014, Health Informatics, to supersede ATS 5822—2010, *E-health secure message delivery*.

This Standard is designed to be compatible with the implementation of ATS 5822—2010. The XML namespaces are unchanged and there have been only minor corrections to the Web Services Description Language (WSDL) and XML Schemas. The optional use of endpoints using the WS-Security and NIL Security has been removed. The changes are not expected to impact communications between implementations of ATS 5822—2010 and this Standard.

The objective of this Standard is to define an interoperable mechanism for clinical messaging over the Internet using the industry-standard Web services protocols.

Clinical messaging requires a network infrastructure, broad interconnectivity, end-to-end privacy and assurance of delivery. The Internet provides a network infrastructure that can support such messaging, but there is a need to adopt a set of standard interfaces that addresses the needs of both large and small businesses in order to ensure interconnectivity, privacy and assurance of delivery. Small businesses in particular cannot rely on significant infrastructure or technology expertise within the organization. Hence the standard interfaces need to cater for hosted services while retaining end-to-end privacy and delivery assurance.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is for information and guidance only.

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STANDARDS AUSTRALIA

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## SECTION 1 SCOPE AND GENERAL

### 1.1 SCOPE AND INTENDED AUDIENCE

#### 1.1.1 Scope

This Standard defines a set of roles in the Secure Message Delivery process and their associated interfaces and behaviour. The intent of these role specifications, service interfaces and behaviour is to support the transmission of electronic messages between software systems at two distinct organizations.

This Standard has the following key constraints:

(a) This Standard is intended for transmission of message payloads from an identified sender organization to an identified receiver organization. It is not intended to provide long term storage of message payloads, or to transmit message payloads to an unknown or to-be-nominated recipient.

(b) This Standard does not constrain the message payload, defining only the control and routing information necessary to transmit the message payload in a safe and secure manner.

(c) This Standard does not attempt to capture business processes or business services, defining only the externally visible behaviour necessary to implement interconnected messaging.

While it is expected that Secure Message Delivery will have many applications, these constraints need to be considered when determining whether this Standard is suitable for a particular purpose.

#### 1.1.2 Intended audience

This Standard is intended for—

(a) solution architects who need to understand the role specifications in order to incorporate them into their designs;

(b) developers who need to create implementations that conform to the role specifications; and

(c) testers who need to evaluate whether an implementation conforms to the role specifications.

The reader is expected to understand XML, XML Schema, web services, Web Services Description Language (WSDL) and Public Key Infrastructure (PKI).

### 1.2 OVERVIEW

Common behaviours are specified in Section 2. These apply to all the role specifications, datatypes and service interfaces.

The four role specifications are detailed in Sections 3–6.

The datatypes specified in Section 7 are used by all the role specifications and service interfaces; these service interfaces are specified in Sections 8–12.

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