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Distribution Envelope Constraints for PDS Mini Services

Document Management

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Reviewers

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Glossary of Terms

Term / Abbreviation	What it stands for

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1 Introduction

1.1 Purpose of Document

This document provides applicable constraints for Distribution Envelope for carrying PDS Mini Services message payload as defined in PDS Mini Services domain message specifications.

2 Distribution Envelope Constraints

Name	Cardinality	Data Type	Description
<i>header</i>	1..1		Distribution envelope header.
@Service	1..1	URI	<p>The service under which this transmission is sent.</p> <p>This should be populated with a service name taken from the service listing in the "ITK Implementation" page of the Domain Message Specification.</p>
@trackingid	1..1	UUID	A unique identifier for this transmission. This is a DCE UUID generated by the sender that is used as a tracking identifier for the transmission.
<i>addresslist</i>	0..1		A list of recipient addresses, which indicate the end-to-end business destination of the distribution.
<i>address</i>	1..1		<p>A business delivery address URI.</p> <p>The cardinality of the address attribute has been restricted to one since there is only ever a single recipient.</p>

Name	Cardinality	Data Type	Description
@type	0..1	String	The format of address used. (default= "2.16.840.1.113883.2.1.3.2.4.18.22", which indicates an ITK address format). Other addressing formats are supported, but these are generally used by local agreement. For sending an inter-organisational transmission, the default ITK address format should be used.
@uri	1..1	URI	The actual business delivery address for this transmission. Further addressing guidance is given in the latest version of the "Interoperability Toolkit Addressing and Routing Requirements".
<i>auditidentity</i>	1..1		<p>An auditable reference for the sender. Examples could include an ITK format audit identity, a spine smart-card authentication etc. This attribute is used by middleware to audit the sending of transmissions.</p> <p>The cardinality of the auditIdentity attribute has been set to 1..1.</p>
<i>id</i>	1..4		<p>Up to 4 levels of identity are allowed to identify the sender. For example the 1st identity could be a person, 2nd their role, and 3rd the responsible organisation.</p> <p>Rules for the population of audit identity data can be found in latest version of "ITK Spine Mini Service - Common Provider Requirements" specifically as SMSP-AUDIT-002 and SMSP-AUDIT-003.</p>

Name	Cardinality	Data Type	Description
@type	0..1	String	The format of audit identity used. (default= "2.16.840.1.113883.2.1.3.2.4.18.27", which indicates an ITK identity format). Other audit identity formats are supported, but these are generally used by local agreement. For sending an inter-organisational transmission, the default ITK identity format should be used.
@uri	1..1	URI	The actual audit identification.
manifest	1..1		Technical details of each payload. It is mandatory that each payload has a Manifest entry in the distribution envelope.
@count	1..1	Integer	<p>A count of the number of payloads being described. This must match the payloads.count attribute.</p> <p>This should be set to a value of "1" since there is only support for the sending of a single payload per transaction.</p>
manifestitem	1..1		<p>There must be one manifestitem per payload.</p> <p>There should be a single instance of manifest item.</p>
@id	1..1	XS:IDREF	The id of the payload being described. This must match the payload.id attribute. The recommended format for id is to use a DCE UUID prefixed with "uuid_". For example

Name	Cardinality	Data Type	Description
			id="uuid_A570ED3C-3D67-11E2-9389-A28C6188709B".
@mimetype	1..1	String	<p>The mime type of the payload.</p> <p>The mime-type should be set to "text/xml".</p>
@profileid	1..1	URI	<p>The identification of a description of the versionable artefacts of a payload. Not all payloads will have a profileid - for example an image may not have any versionable artefacts. For more structured payloads such as a CDA document, this will document versionable payload artefacts such as vocabularies and templates.</p> <p>The profileid should be populated with a profile from this specification.</p>
@metadata	0..0	Boolean	<p>A flag to indicate whether the payload being described is the metadata content payload (default="false"). Metadata will be in an IHE conformant format.</p> <p>The cardinality of the metadata attribute has been set to 0..0. Since the only payloads permissible are the documented message types, it is not possible for a payload to be a metadata payload.</p>
@compressed	0..1	Boolean	<p>A flag to indicate whether the payload is compressed (default="false"). The only supported compression routine is gZip.</p>

Name	Cardinality	Data Type	Description
@base64	0..1	Boolean	A flag to indicate whether the payload is in base64 format (default="false").
@encrypted	0..1	Boolean	A flag to indicate whether the payload is encrypted (default="false").
senderAddress	0..1		The sender's address. This provides an address for acknowledgements.
@type	0..1	String	The format of address used. (default= "2.16.840.1.113883.2.1.3.2.4.18.22", which indicates an ITK address format). Other addressing formats are supported, but these are generally used by local agreement. For sending an inter-organisational transmission, the default ITK address format should be used.
@uri	1..1	URI	The actual delivery address for the acknowledgement. This is the return address for infrastructural acknowledgements for example.
handlingSpecifications	0..1		An extensible list of handling requirements - such as send business ACK, interaction IDs etc. This list is expected to grow over time. Each specification and the values it can take will be documented outside this document.
spec	1..*		A set of key / value pair to represent a handling specification.

Name	Cardinality	Data Type	Description
@key	1..1	URI	Specification Key (such as send business ACK). For example, to request a Business Acknowledgement "urn:nhs:itk:ns:201005:ackrequested".
@value	1..1	String	Value for the key (such as "true").
<i>payloads</i>	<i>1..1</i>		The payloads. A variety of content types can be carried, as described by the manifest.
@count	1..1	Integer	A count of the number of payloads (must match manifest.count).
<i>payload</i>	<i>1..1</i>		The actual payloads. There should be a single instance of payload.
@id	1..1	XS:ID	The unique identifier of a payload (must match manifestItem.id).
@filename	0..0	String	The file name under which the extracted payload should be saved. The filename has been excluded since files are not permitted.