DXTERA
INSTITUTE℠

Next Generation Integration Scorecard
Messaging Functional Area

The Messaging Functional Area defines sending and receiving messages.

Message

Messages are structures that include a sender, recipients, and a timestamp. The text of the Message is displayable as text and may include a specific structure defined through additional attributes, and may be edited as a draft until sent.

Once a Message is sent, the Message includes the sending Agent as well as the addressed recipients represented by a list of Resources. A Message is received by a receiving Agent which generally is related to one of the recipients

Also known as:

❏ Read Operations for *Messages:*   Score

❏ Get Messages given unique Ids	
❏ Get all the Messages in a system or Catalog	
❏ Query (Search) Messages based on attribute-based query terms or keywords	
❏ Register for notifications Messages have been created, updated or deleted	

❏ Write Operations for *Messages:*

❏ Create, Update and Delete Messages	
❏ Add an alias Id to reference an existing Message	
❏ Organize Messages into Mailboxes	

❏ Operations related to sending *Messages:*

❏ Send a Message to a list of recipients	
❏ Gets all Messages not yet sent by the authenticated user	

Minimally Supported Attributes of *Messages:*

● A unique and permanent identifier
● The name of the Message
● A description of the Message
● The type of the Message: personal, distribution, daemon mailer
● The subject line of the Message
● The text representation of the Message
● Boolean test of whether this Message has been sent
● The time this message was sent, if it has been sent
● The sender of this Message, if it has been sent
● The authenticated Agent which sent this Message, if it has been sent
● The list of all addressed recipients of this message, if it has been sent
● The Receipt for this message. A Receipt is available for the receiver of this message
● Further type specific structures of the Message

Receipt

Once a Message has been received by a receiving agent, a Receipt is be generated to include the time received and the receiving agent. A Receipt can be used to store additional data related to the received Message.   Receipts may only be visible to the receiving Agent or a messaging system may authorize Receipts to be visible to the sender or other parties.
Also known as:

❏ Read Operations for *Receipts:*   Score

❏ Get Receipts given unique Ids	
❏ Get all the Receipts in a system or Mailbox	
❏ Query (Search) Receipts based on attribute-based query terms or keywords	
❏ Register for notifications that Receipts have been created or updated	

❏ Write Operations for *Receipts:*

❏ Update Receipts	

Minimally Supported Attributes of *Receipts:*

● A unique and permanent identifier
● The name of the Receipt
● A description of the Receipt
● The type of the Receipt
● The Message associated with the Receipt
● The time the Message was received
● The Agent that received this message at this endpoint
● The Resource that received this message at this endpoint

Mailbox

A directory or other kind of organizational construct for managing Messaging related entities
Also known as: Catalog

❏ Read Operations for *Mailboxes:*   *Score*

❏ Get Mailboxes given unique Ids	
❏ Get all the Mailboxes in a system or Mailbox	
❏ Query (Search) Messages based on attribute-based query terms or keywords	
❏ Traverse Hierarchical relationships between Mailboxes	
❏ Register for notifications Mailboxes have been created, updated or deleted	
❏ Register for notifications that hierarchical relationships between Mailboxes have been created, updated or deleted	

❏ Write Operations for *Mailboxes:*

❏ Create, Update and Delete Mailboxes	
❏ Add an alias Id to reference an existing Mailbox	
❏ Manage Hierarchical relationships between Mailboxes	

Minimally Supported Attributes of *Mailboxes:*

● A unique and permanent identifier.
● The name of the Mailbox
● A description of the Mailbox
● The type of the Mailbox
● The provider of this Mailbox
● Any available branding for this Mailbox, for example, an organizational logo or thumbnail
● Any licensing (terms of usage) associated with this Mailbox