

Change Log for JSR-212 SAMS Messaging API

Proposed Specification Changes September 14, 2004

Feedback

Please use the following address to provide feedback on the specification changes described here.

DG.JSR-212-Maintenance@nokia.com

I Executive Summary

1 Specification bug fixes and clarifications

- 1.1 Clarify when parameters to `Service.openSession` are invalid.
- 1.2 Specify that the default for the destination and originator port addresses of a short message is zero.

2 Specification changes for existing features

- 2.1 Change the attributes message sender address and message handling time stamp of `DeliveryInfo` from mandatory to optional.
- 2.2 Change the attribute content id of `ContentPart` from mandatory to optional.

3 Specification changes for new features

- 3.1 The getter is added for the maximum number of segments in a short message.
- 3.2 Enterprise Java session and message-driven beans are specified as alternatives for the current plain Java `Session` and `MessageListener` classes.

II Detailed Change Descriptions

- 1.1 Clarify when parameters to `Service.openSession` are invalid

Overview:

Depending on the services, there may be some implementation-specific *mandatory* session specific properties needed as arguments to the method `javax.sams.Service.openSession`. Currently, it is specified that `InvalidArgumentException` is thrown if any of the property values is *invalid*. The intent has been that the given property values are invalid also if any of the mandatory properties have not been given, but it has not been clearly written in the specification.

Justification:

A session cannot be opened if any of the mandatory properties have not been given.

Proposed change to the specification:

Unknown properties can be ignored, but if there are invalid values or mandatory properties have not been given, the `InvalidArgumentException` must be thrown.

- 1.2 Specify that the default for the destination and originator port addresses of a short message is zero.

Overview:

Currently, the specification does not specify a default for the optional destination and originator port addresses of a short message.

Justification:

This change is needed so that the specification is unambiguous from the implementer point of view.

Proposed change to the specification:

The default for the destination and originator port addresses of a short message is zero. It is used if the application does not set the port explicitly. However, if neither of them is set, the port addresses are not sent at all.

2.1 Change the attributes message sender address and message handling time stamp of `DeliveryInfo` from mandatory to optional.

Overview:

Currently, the attributes message sender address and message handling time stamp of `javax.sams.messaging.DeliveryInfo` have been specified as mandatory, but they should be changed as optional.

Justification:

These attributes should be optional in the API, since the underlying implementation could also add them. The message sender address may be added based on the message id. The message handling time may be set as the current time.

Proposed change to the specification:

In the constructors of `javax.sams.messaging.DeliveryInfo` the arguments `sender` and `date` may be `null`.

2.2 Change the attribute content id of `ContentPart` from mandatory to optional.

Overview:

Currently, the attribute content id of `ContentPart` is specified as mandatory, but it should be changed as optional.

Justification:

In a Multimedia Message either content identifier or content location is required only if the type of the message is `Multipart/Related`. In that case either one is needed for SMIL references and it must be unique over all the content parts of the message.

Proposed change to the specification:

In the constructor of `javax.sams.messaging.mms.ContentPart` the argument `id` may be `null`. Additionally, the methods `addContent` and `setContents` of `javax.sams.messaging.mms.MmsMessage` must throw `InvalidArgumentException` if the type of the message is `Multipart/Related` and the content identifier or content location has not been set in the `ContentPart` or it is not unique over all the content parts of the message.

3.1 The getter is added for the maximum number of segments in a short message.

Overview:

Currently, the maximum number of segments in a short message can only be set and not queried.

Justification:

It would be useful for an application also to know the maximum number of segments in the short message.

Proposed change to the specification:

The method `javax.sams.messaging.sms.SmsMessage.getMaxSegmentCount` is added for querying the maximum number of segments in the short message.

3.2 Enterprise Java session and message-driven beans are specified as alternatives for the current plain Java Session and MessageListener classes.

Overview:

Currently, only plain Java Session and MessageListener classes are specified. It should be possible also to *package* them as Enterprise Java session and message-driven beans on the J2EE platforms.

Justification:

The JSR 212 is targeted to both J2SE as well as J2EE environments. This change is needed to be able properly and equally support also J2EE environments in addition to J2SE environments, since the enterprise Java session and message-driven beans are the standard and natural way to implement sessions and asynchronous receivers on top of the J2EE platforms.

Proposed change to the specification:

1. EJB home and remote interfaces are added for the JSR 212 sessions so that they can also be alternatively packaged as session beans in addition to the plain Java classes.
2. The methods of `Session` and `MessagingSession` interfaces throw `java.rmi.RemoteException` so that these interfaces can also be implemented by the EJB session beans or used with the RMI.
3. MDBs can be used in the J2EE instead of MessageListeners to receive asynchronous messages.

Accepted Changes

None

Deferred Changes

None