



SLOVENSKI STANDARD
SIST ES 202 915-9 V1.1.1:2005
01-januar-2005

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Open Service Access (OSA); Application Programming Interface (API); Part 9: Generic
Messaging SCF

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ICS:

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ETSI ES 202 915-9 V1.1.1 (2003-01)

ETSI Standard

Open Service Access (OSA); Application Programming Interface (API); Part 9: Generic Messaging SCF



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Reference

DES/SPAN-120091-9

Keywords

API, IDL, OSA, UML

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Contents

Intellectual Property Rights	6
Foreword.....	6
1 Scope	7
2 References	7
3 Definitions and abbreviations.....	7
3.1 Definitions.....	7
3.2 Abbreviations	7
4 Generic Messaging SCF.....	8
5 Sequence Diagrams	8
5.1 Prepare Mailbox	8
5.2 Open Mailbox.....	9
5.3 Get Message	9
5.4 Get Folder Information.....	10
5.5 Close Mailbox	10
6 Class Diagrams.....	11
7 The Service Interface Specifications	12
7.1 Interface Specification Format.....	12
7.1.1 Interface Class	12
7.1.2 Method descriptions.....	12
7.1.3 Parameter descriptions	12
7.1.4 State Model.....	12
7.2 Base Interface	12
7.2.1 Interface Class IpInterface	12
7.2.1.1 http://standards.iteh.ai/catalog/standards/sist/2/refs/09c/b61-a4377-89c1-facbb0893d4/sist-es-202-915-9-v1-1-2005	12
7.2.2 Service Interfaces	13
7.2.2.1 Overview	13
7.2.3 Generic Service Interface	13
7.2.3.1 Interface Class IpService	13
7.2.3.1.1 Method setCallback()	13
7.2.3.1.2 Method setCallbackWithSessionID().....	13
8 Generic Messaging Interface Classes.....	14
8.1 Interface Class IpMessagingManager	14
8.1.1 Method openMailbox()	15
8.1.2 Method enableMessagingNotification()	15
8.1.3 Method disableMessagingNotification().....	16
8.2 Interface Class IpAppMessagingManager.....	16
8.2.1 Method mailboxTerminated()	17
8.2.2 Method mailboxFaultDetected().....	17
8.2.3 Method messagingEventNotify()	17
8.2.4 Method messagingNotificationTerminated()	18
8.3 Interface Class IpMailbox	18
8.3.1 Method close()	18
8.3.2 Method lock()	19
8.3.3 Method unlock()	19
8.3.4 Method getInfoAmount().....	19
8.3.5 Method getInfoProperties().....	20
8.3.6 Method setInfoProperties()	20
8.3.7 Method openFolder()	21
8.3.8 Method createFolder()	21
8.3.9 Method remove()	22
8.4 Interface Class IpMailboxFolder.....	23
8.4.1 Method getInfoAmount().....	23

8.4.2	Method getInfoProperties().....	23
8.4.3	Method setInfoProperties()	24
8.4.4	Method putMessage()	25
8.4.5	Method getMessage()	25
8.4.6	Method close()	26
8.4.7	Method remove()	26
8.5	Interface Class IpMessage.....	27
8.5.1	Method getInfoAmount().....	27
8.5.2	Method getInfoProperties().....	28
8.5.3	Method setInfoProperties()	28
8.5.4	Method remove()	29
8.5.5	Method getContent().....	29
9	State Transition Diagrams	30
10	Data Definitions	30
10.1	Event notification Definitions	30
10.1.1	TpMessagingEventName.....	30
10.1.2	TpMessagingEventCriteria	30
10.1.3	TpGMSNewMessageArrivedCriteria	30
10.1.4	TpMessagingEventInfo	31
10.1.5	TpGMSNewMessageArrivedInfo	31
10.2	Generic Messaging Data Definitions.....	31
10.2.1	IpMessagingManager.....	31
10.2.2	IpMessagingManagerRef.....	31
10.2.3	IpAppMessagingManager	31
10.2.4	IpAppMessagingManagerRef	31
10.2.5	IpMailbox	31
10.2.6	IpMailboxRef.....	31
10.2.7	IpMailboxFolder	31
10.2.8	IpMailboxFolderRef	32
10.2.9	IpMessage	32
10.2.10	IpMessageRef	32
10.2.11	TpFolderInfoProperty	32
10.2.12	TpFolderInfoPropertyName	32
10.2.13	TpFolderInfoPropertySet	32
10.2.14	TpMailboxFolderIdentifier	32
10.2.15	TpMailboxIdentifier	33
10.2.16	TpMailboxInfoProperty	33
10.2.17	TpMailboxInfoPropertyName	33
10.2.18	TpMailboxInfoPropertySet	33
10.2.19	TpMessage	33
10.2.20	TpMessageFormat	33
10.2.21	TpMessageInfoProperty	34
10.2.22	TpMessageInfoPropertyName	34
10.2.23	TpMessageInfoPropertySet	34
10.2.24	TpMessagePriority	34
10.2.25	TpMessageStatus	35
10.2.26	TpMessagingFault	35
11	Exception Classes.....	35
Annex A (normative):	OMG IDL Description of Generic Messaging SCF	36
Annex B (informative):	W3C WSDL Description of Generic Messaging SCF.....	37
Annex C (informative):	Record of changes	38
C.1	Interfaces	38
C.1.1	New	38
C.1.1	Deprecated.....	38
C.1.3	Removed.....	38
C.2	Methods	38

C.2.1	New	38
C.2.2	Deprecated.....	38
C.2.3	Modified.....	39
C.2.4	Removed.....	39
C.3	Data Definitions	39
C.3.1	New	39
C.3.2	Modified.....	39
C.3.3	Removed.....	39
C.4	Service Properties.....	39
C.4.1	New	39
C.4.2	Deprecated.....	40
C.4.3	Modified.....	40
C.4.4	Removed.....	40
C.5	Exceptions	40
C.5.1	New	40
C.5.2	Modified.....	40
C.5.3	Removed.....	40
C.6	Others	40
	History	41

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[SIST ES 202 915-9 V1.1.1:2005](#)

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Foreword

This ETSI Standard (ES) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document is part 9 of a multi-part deliverable covering Open Service Access (OSA); Application Programming Interface (API), as identified below. The API specification (ES 202 915) is structured in the following parts:

- Part 1: "Overview";
- Part 2: "Common Data Definitions";
- Part 3: "Framework"; **iTeh STANDARD PREVIEW
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- Part 4: "Call Control";
- Part 5: "User Interaction SCF";
- Part 6: "Mobility SCF"; [SIST ES 202 915-9 V1.1.1:2005](#)
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- Part 7: "Terminal Capabilities SCF";
- Part 8: "Data Session Control SCF";
- Part 9: "Generic Messaging SCF";**
- Part 10: "Connectivity Manager SCF";
- Part 11: "Account Management SCF";
- Part 12: "Charging SCF";
- Part 13: "Policy Management SCF";
- Part 14: "Presence and Availability Management SCF".

The present document has been defined jointly between ETSI, The Parlay Group (<http://www.parlay.org>) and the 3GPP, in co-operation with a number of JAIN™ Community (<http://www.java.sun.com/products/jain>) member companies.

The present document forms part of the Parlay 4.0 set of specifications.

1 Scope

The present document is part 9 of the Stage 3 specification for an Application Programming Interface (API) for Open Service Access (OSA).

The OSA specifications define an architecture that enables application developers to make use of network functionality through an open standardised interface, i.e. the OSA APIs.

The present document specifies the Generic Messaging Service Capability Feature (SCF) aspects of the interface. All aspects of the Generic Messaging SCF are defined here, these being:

- Sequence Diagrams
- Class Diagrams
- Interface specification plus detailed method descriptions
- State Transition diagrams
- Data Definitions
- IDL Description of the interfaces

The process by which this task is accomplished is through the use of object modelling techniques described by the Unified Modelling Language (UML).

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2 References ([standards.iteh.ai](https://standards.iteh.ai/catalog/standards/sist/21efa09e-b61a-4377-89e1-1))

The references listed in clause 2 of ES 202 915-1 contain provisions which, through reference in this text, constitute provisions of the present document.

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ETSI ES 202 915-1: "Open Service Access (OSA); Application Programming Interface (API); Part 1: Overview".

ETSI ES 202 915-2: "Open Service Access (OSA); Application Programming Interface (API); Part 2: Common Data Definitions".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ES 202 915-1 apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations defined in ES 202 915-1 apply.

4 Generic Messaging SCF

The following clauses describe each aspect of the Generic Messaging Service Capability Feature (SCF).

The order is as follows:

- The Sequence diagrams give the reader a practical idea of how each of the SCF is implemented.
- The Class relationships clause show how each of the interfaces applicable to the SCF, relate to one another.
- The Interface specification clause describes in detail each of the interfaces shown within the Class diagram part.
- The State Transition Diagrams (STD) show the transition between states in the SCF. The states and transitions are well-defined; either methods specified in the Interface specification or events occurring in the underlying networks cause state transitions.
- The Data Definitions clause show a detailed expansion of each of the data types associated with the methods within the classes. Note that some data types are used in other methods and classes and are therefore defined within the Common Data types part ES 202 915-2.

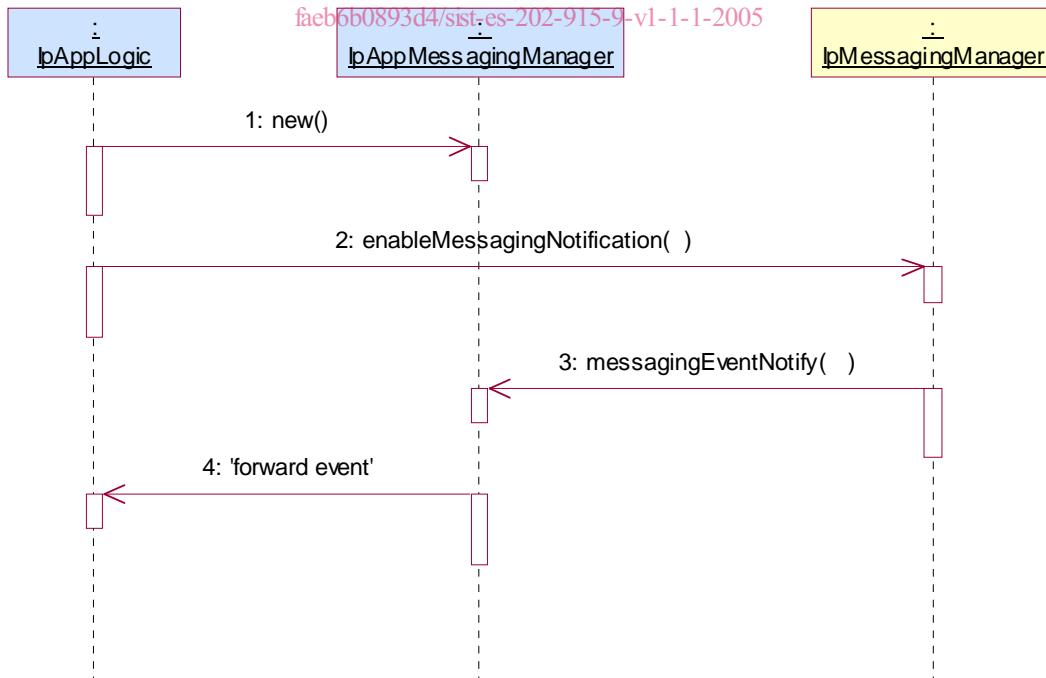
An implementation of this API which supports or implements a method described in the present document, shall support or implement the functionality described for that method, for at least one valid set of values for the parameters of that method. Where a method is not supported by an implementation of a Service interface, the exception P_METHOD_NOT_SUPPORTED shall be returned to any call of that method.

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5 Sequence Diagrams (standards.iteh.ai)

5.1 Prepare Mailbox SIST ES 202 915-9 V1.1.1:2005

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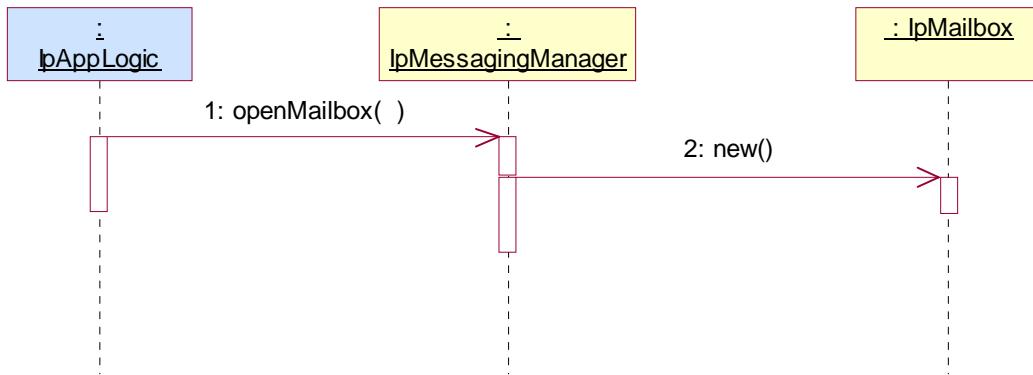
1: This message is used by the application to create an object implementing the IpAppMessagingManager interface.

2: This message is used to enable the notification mechanism so that events can be sent to the application.

When new mail, that matches the event criteria set in message 2, arrives a message indicating the presence of new mail (not shown) is directed to the object implementing the IpMessagingManager.

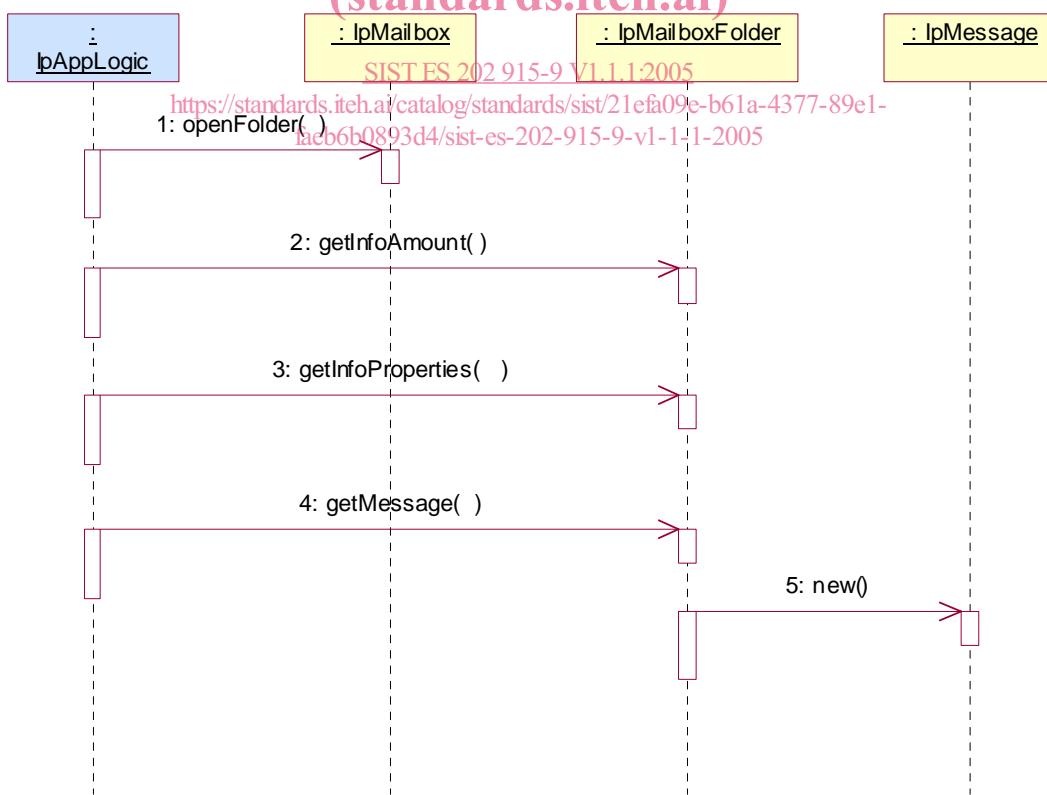
- 3: This message is used to pass the new mail event to the object implementing the IpAppMessagingManager interface.
- 4: This message is used to forward message 3 to the IpAppLogic.

5.2 Open Mailbox



- 1: This message requests the object implementing the IpMessagingManager interface to create an object implementing the IpMailbox interface.
- 2: Assuming that the criteria for creating an object implementing the IpMailbox interface is met, message 2 is used to create it.

5.3 Get Message *iTeh STANDARD PREVIEW (standards.iteh.ai)*

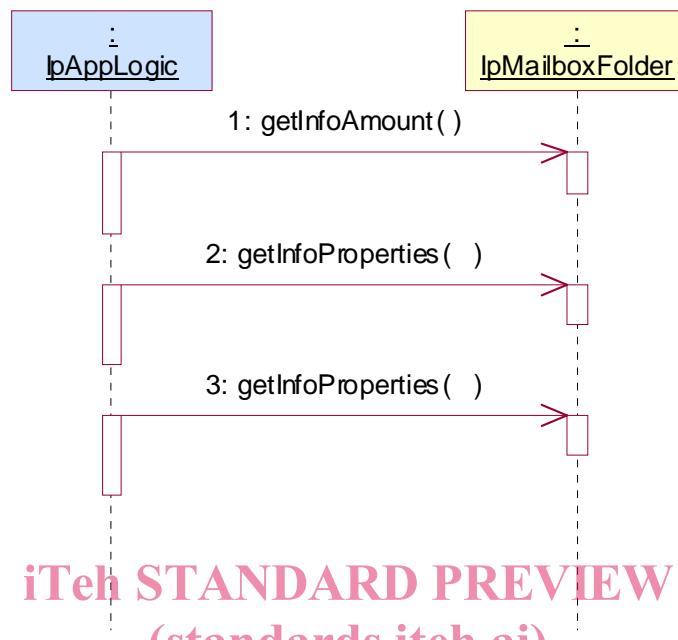


- 1: This message requests a folder to be opened and returns a reference to that folder.
- 2: This message requests the number of folder information properties of the opened folder.
- 3: This message requests all of the folder information properties.

4: This message requests a message from the opened mailbox folder.

5: Assuming that the criteria for creating an object implementing the IpMessage interface are met, the (internal) message 5 is used to create it.

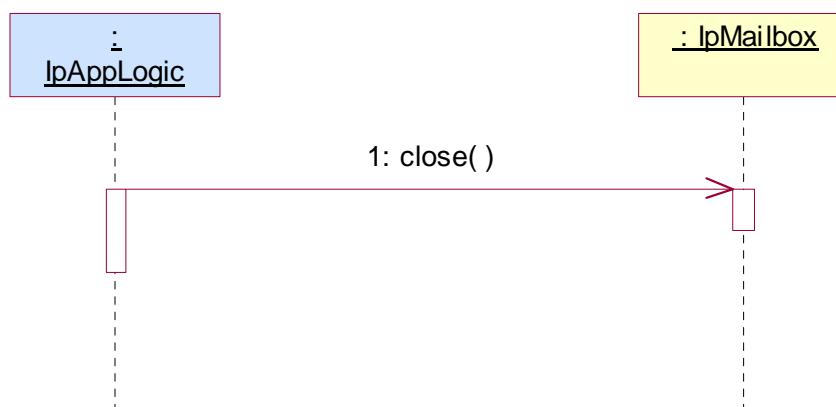
5.4 Get Folder Information



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- 1: This message requests the number of folder information properties of the specified folder.
- 2: This message requests the first set of folder information properties.
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<https://standards.iteh.ai/catalog/standards/sist/21efa09e-b61a-4377-89e1->
- 3: This message requests the second set of folder information properties.

5.5 Close Mailbox



- 1: This message requests the object implementing the `IpMailbox` interface to de-assign.

6 Class Diagrams

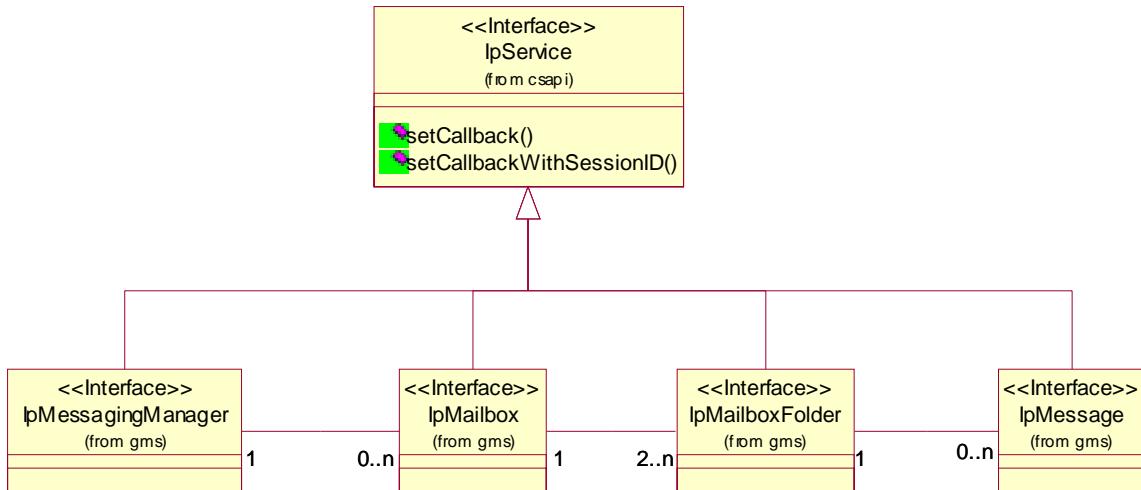


Figure 1: Package Overview : Service Interfaces

The application generic messaging service package consists of only one IpAppMessagingManager interface.

The generic messaging service package consists of one IpMessagingManager interface, zero or more IpMailbox interfaces, zero or more IpMailboxFolder and zero or more IpMessage interfaces.

The class diagram in the following figure shows the interfaces that make up the application generic messaging service package and the generic messaging service package. Communication between these packages is done via the +uses the IpMessagingManager channels. Communication with the IpMailbox and IpMailboxFolder interfaces has to be done via the application logic (not shown).

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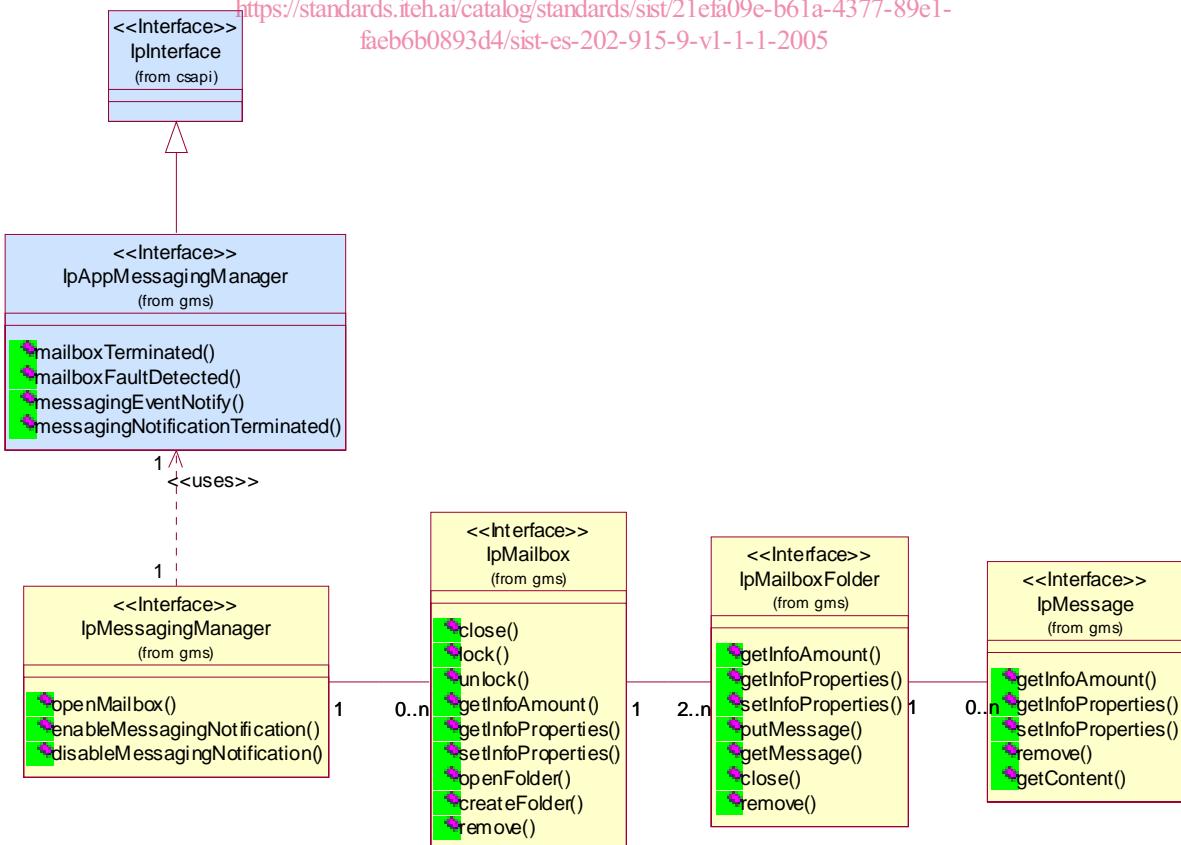


Figure 2: Package Overview: Application and Service Interfaces