



GENIVI Alliance

GENIVI Document IAmRoutingPlugin

Platform Compliance Specification

Version 2.0

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Abstract:

This document is the GENIVI platform compliance specification.

Keywords: GENIVI

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GENIVI Alliance, Inc.
2400 Camino Ramon, Suite 375
San Ramon, CA 94583, USA

Table of contents

1	Introduction.....	4
2	Change History.....	5
3	Targeted Audience	6
4	Categories	7
5	Abbreviations.....	8
6	Format of the entries in this document	9
7	Standards.....	10
8	Component Overview	11
9	Component Interaction	12
9.1	Feedback	12
9.2	Actions	25
9.3	Registration_&_Startup.....	62
10	Headers	100
10.1	CommandReceive	100
10.2	CommandSend	107

1 Introduction

This document describes general requirements on the platform, all external standards and all the components of the GENIVI platform release.

2 Change History

The following table shows the change history for this specification:

Date	Version	Author, Comment
6.12.11	1.0	Initial version, C Müller, BMW
2.3.12	1.1	Update for release
31.1.13	2.0	Update for foton release

3 Targeted Audience

Anyone wishing to apply for compliance should have this document at hand, as it complements the *GENIVI Platform Compliance Statement* document.

4 Categories

The compliance requirements within the GENIVI compliance program fall into the following general categories:

- *Standards*

The Standards list the compliance requirements that refer to standards external to GENIVI

- *Components from GENIVI component list*, that can be of the following compliance levels:
 - *PlaceholderComponent*, as described in GENIVI Compliance Explanation
 - *AbstractComponent*, as described in GENIVI Compliance Explanation
 - *SpecificComponent*, as described in GENIVI Compliance Explanation

5 Abbreviations

In further text the following abbreviations (ABB) will be used for forming the IDs:

- ST for Standards
- PC for PlaceholderComponent
- AC for AbstractComponent
- SC for SpecificComponent

6 Format of the entries in this document

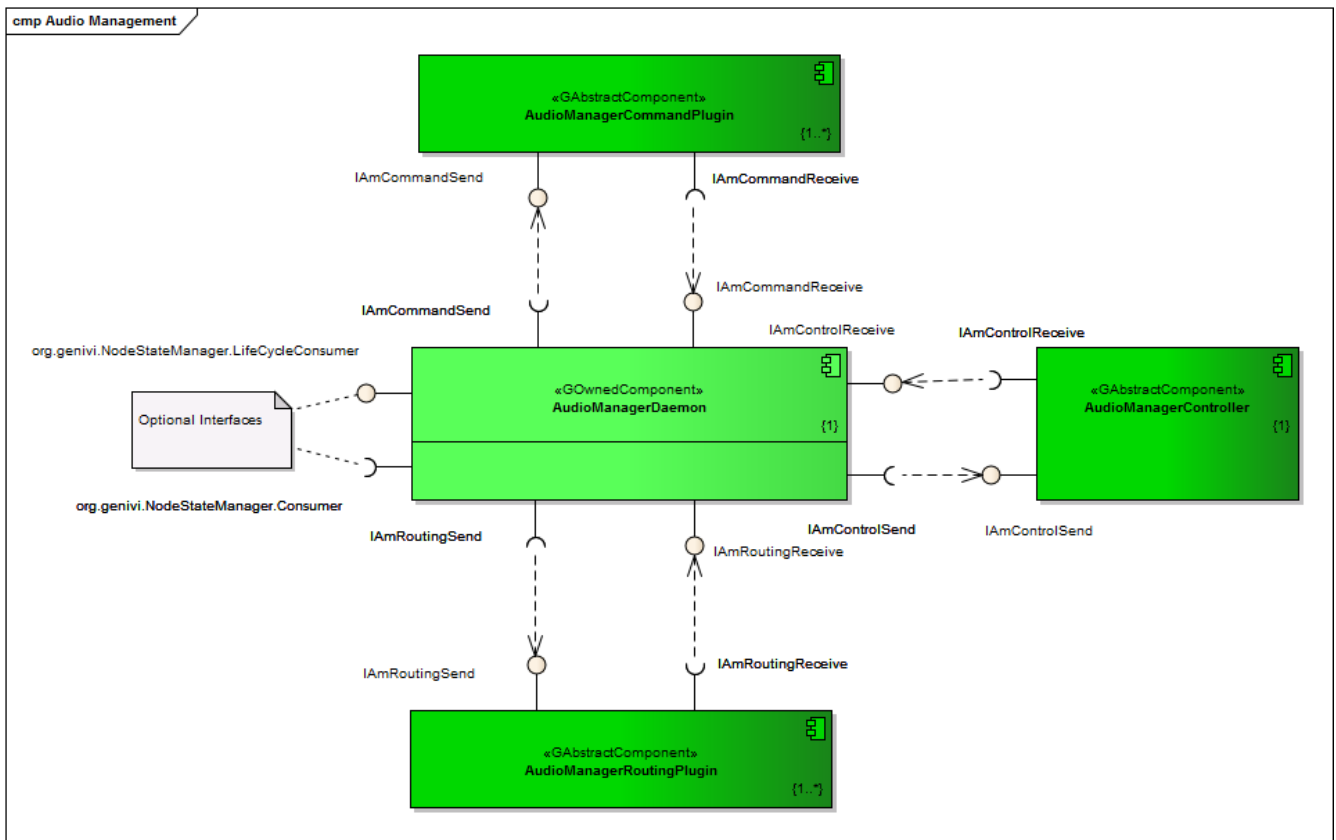
The entries pertaining to components have the following format:

<i>Field</i>	<i>Description</i>
ID	unique ID, text formed as: <ABB>-<auto incrementing number>.<sub code>
Name	name with optional link (URL) to the external reference (e.g. The project home page)
Compliance Level	as defined in <i>Categories</i> .
Priority	as described in GENIVI Compliance Explanation
Implementation constraints	Contains the version(s) allowed May contain compile and runtime configurations
Description	textual clarification
Requirements	For PC, AC contains a table of requirements

7 Standards

GENIVI Compliance Release 1.0 does not require references to external standards.

8 Component Overview



9 Component Interaction

9.1 Feedback

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Routing Interface
Detail: Created on 09.09.2011. Last modified on 09.09.2011
GUID: {4BAD6F85-3E4A-418a-8A72-AD884ABEEE27}

feedback_receivedSourceNotificationPayload

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Feedback
Detail: Created on 30.01.2013. Last modified on 30.01.2013
GUID: {FBB4684C-06E0-452e-9208-FF9E593289A8}

feedback_receivedSourceNotificationPayload - (Interaction diagram)

Created By: q232968 on 30.01.2013
Last Modified: 30.01.2013
Version: 1.0. *Locked:* False
GUID: {AECCCC7F-9D73-4fae-AF8D-726572D08B51}

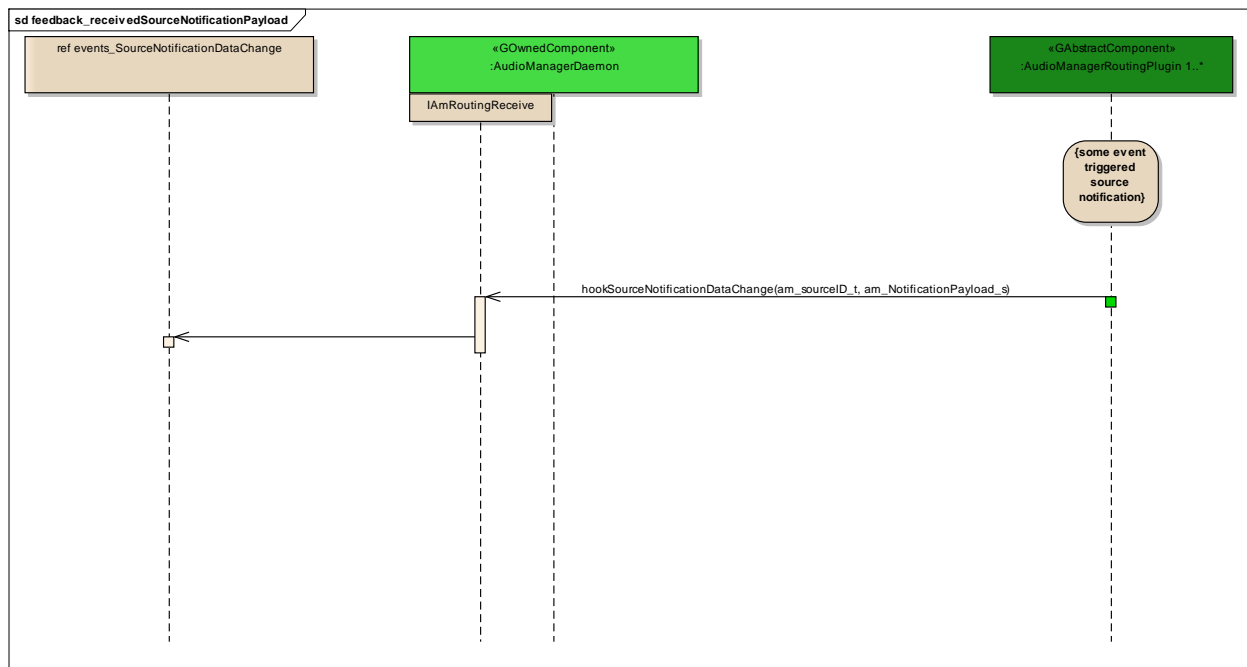


Figure: 1

events_SourceNotificationDataChange

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: feedback_receivedSourceNotificationPayload *Keywords:*
Detail: Created on 30.01.2013. Last modified on 30.01.2013.
GUID: {C467C340-926B-43c9-AF4D-B477FCB668A1}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public IAmRoutingReceive	Public events_SourceNotificationDataChange	

feedback_receiveSinkNotificationPayload

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Feedback
Detail: Created on 29.01.2013. Last modified on 29.01.2013
GUID: {08B65C99-E382-4dbb-BF7E-EB812A4C0D32}

feedback_receiveSinkNotificationPayload - (Interaction diagram)

Created By: q232968 on 29.01.2013
Last Modified: 30.01.2013
Version: 1.0. *Locked:* False
GUID: {F0591230-AC1C-4acd-822A-17B4F6E44686}

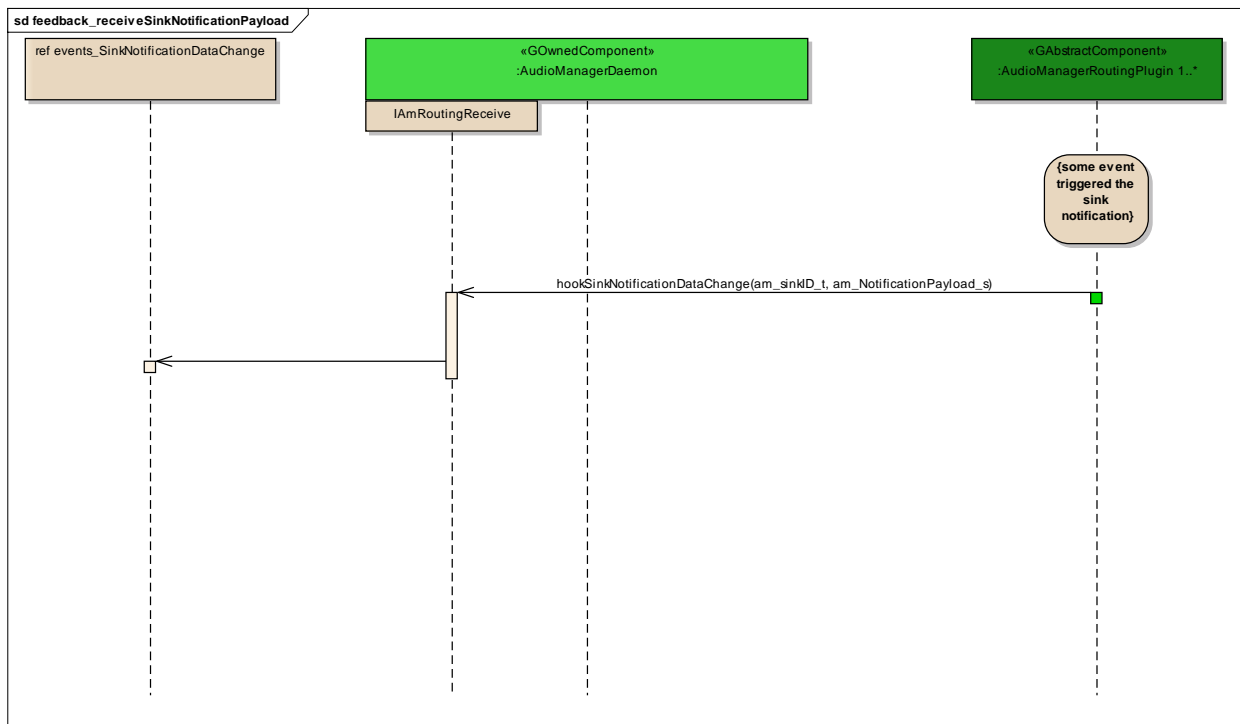


Figure: 2

events_SinkNotificationDataChange

Type: InteractionOccurrence
Status: Proposed. Version 1.0. Phase 1.0.
Package: feedback_receiveSinkNotificationPayload *Keywords:*
Detail: Created on 29.01.2013. Last modified on 29.01.2013.
GUID: {CE894740-6B86-434f-86CB-BB91B606F68E}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public IAmRoutingReceive	Public events_SinkNotificationDataChange	

feedback_receiveChangeData

Type: **Package**
 Status: Reworked. Version 1.0. Phase 1.0.
 Package: Feedback
 Detail: Created on 12.10.2011. Last modified on 12.10.2011
 GUID: {754993D4-5A59-4258-BF01-26F3088F868C}

feedback_receiveChangeData - (Interaction diagram)

Created By: christian on 12.10.2011
 Last Modified: 29.01.2013
 Version: 1.0. Locked: False
 GUID: {6CC9DA8C-17A7-49ec-8FEE-C6AD89AD692C}

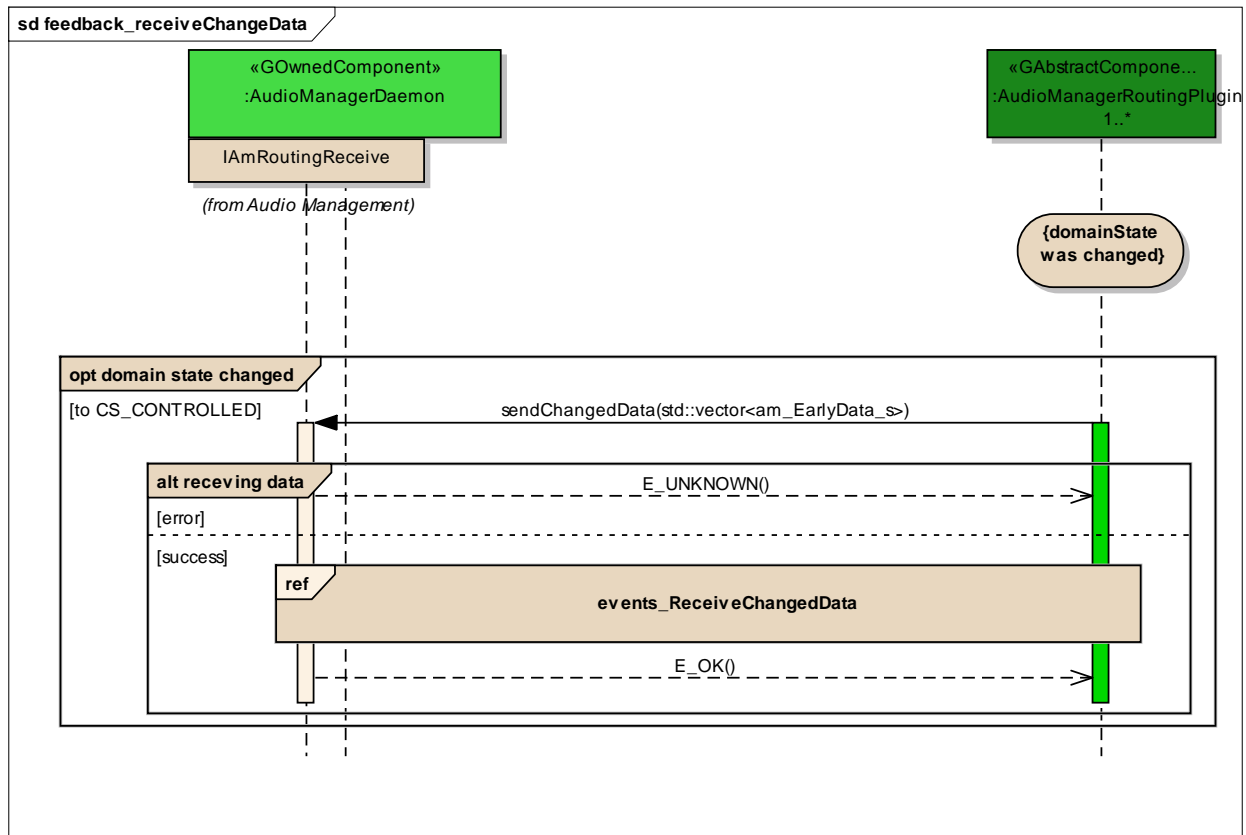


Figure: 3

domain state changed

Type: **InteractionFragment**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: feedback_receiveChangeData *Keywords:*
 Detail: Created on 12.10.2011. Last modified on 12.10.2011.
 GUID: {978785A4-874D-4f8b-8FB3-94CCC0E77867}

events_ReceiveChangedData

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: feedback_receiveChangeData *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {C314BA71-CA01-42e3-831C-D9ACB17B27BA}

receiving data

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: feedback_receiveChangeData *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {5181F586-582A-4a38-A749-E8484AE81B84}

feedback_receiveSinkVolumeTicks

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Feedback
Detail: Created on 04.10.2011. Last modified on 12.10.2011
GUID: {6C8471E1-27A8-4c40-9964-BC09934EAE9F}

feedback_receiveSinkVolumeTicks - (Interaction diagram)

Created By: christian on 04.10.2011
Last Modified: 24.10.2011
Version: 1.0. *Locked:* False
GUID: {27353D6D-099B-435a-AB2E-9E952E37F967}

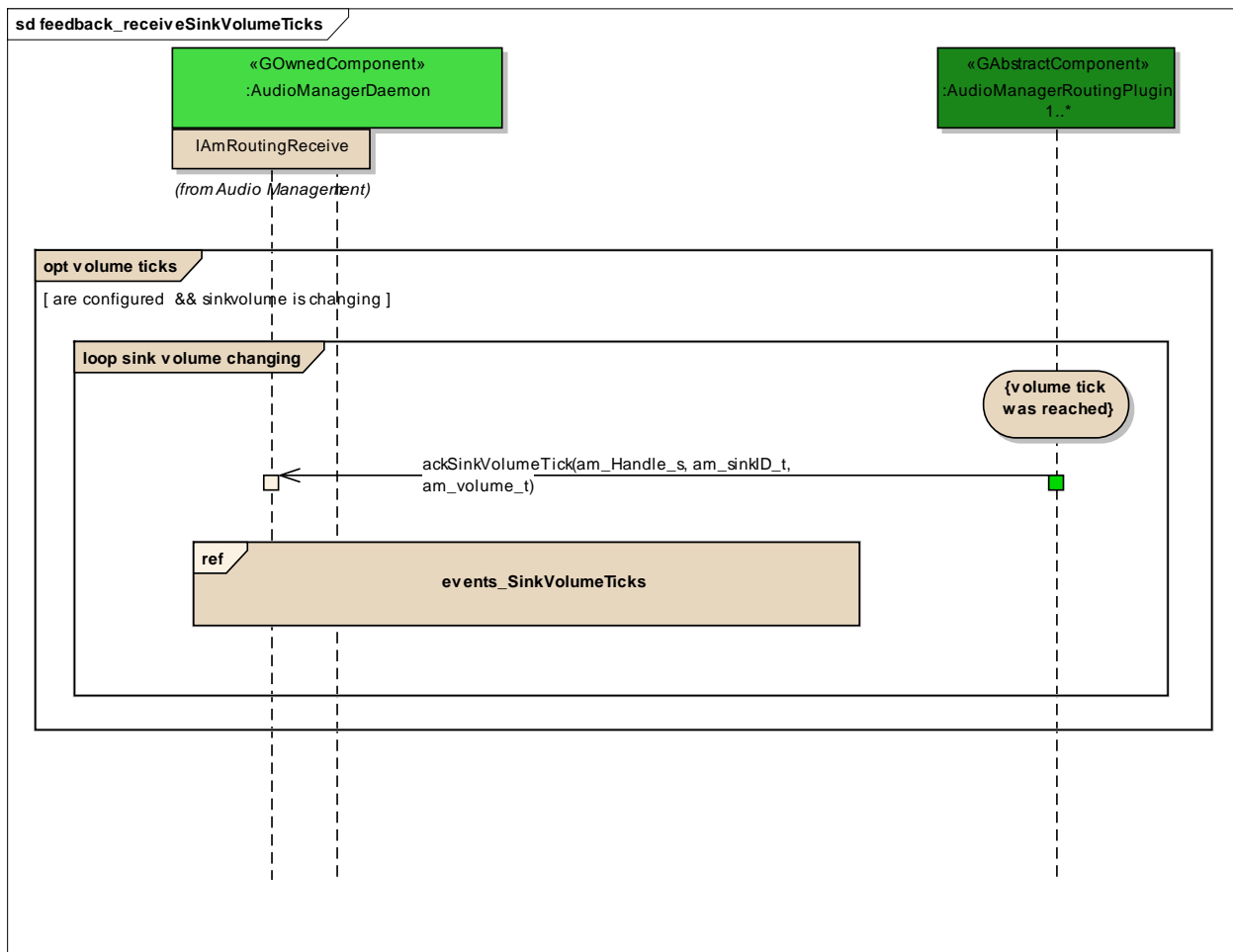


Figure: 4

events_SinkVolumeTicks

Type: InteractionOccurrence
Status: Proposed. Version 1.0. Phase 1.0.
Package: feedback_receiveSinkVolumeTicks *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {C765AA2E-32B3-4bb9-B561-AFAB9435FDA0}

sink volume changing

Type: InteractionFragment
Status: Proposed. Version 1.0. Phase 1.0.
Package: feedback_receiveSinkVolumeTicks *Keywords:*

Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {285B0F04-09E8-4150-AA61-8BFFEDFACA2B}

volume ticks

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: feedback_receiveSinkVolumeTicks *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {5D22D377-5FAE-415e-9C7C-9254D778C829}

feedback_receiveSourceVolumeTicks

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Feedback
Detail: Created on 04.10.2011. Last modified on 12.10.2011
GUID: {29CA3264-80EB-4f8c-A8AF-88A75C972780}

feedback_receiveSourceVolumeTicks - (Interaction diagram)

Created By: christian on 04.10.2011
Last Modified: 24.10.2011
Version: 1.0. *Locked:* False
GUID: {E0BC2FC8-63EC-43ba-A6BD-EE6ED4645D58}

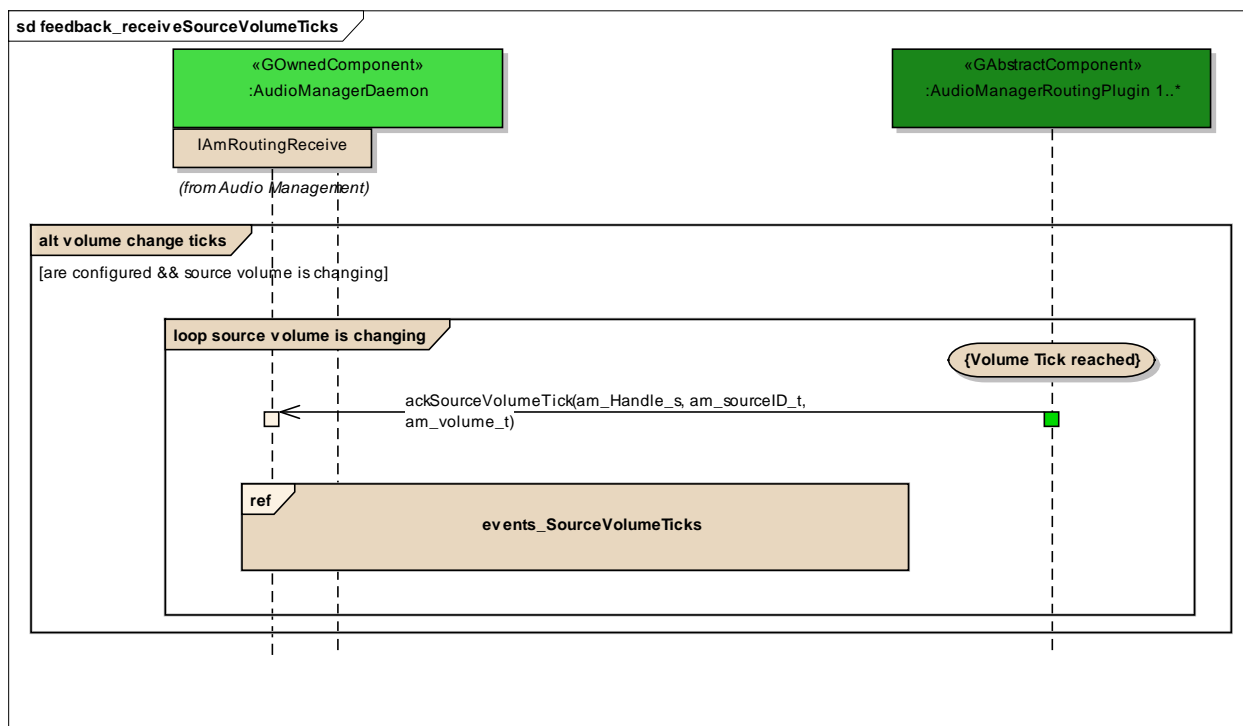


Figure: 5

SourceVolumeTicks

Type: **InteractionOccurrence**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: feedback_receiveSourceVolumeTicks *Keywords:*
 Detail: Created on 04.10.2011. Last modified on 04.10.2011.
 GUID: {6FB19626-3987-4e21-A6C0-4229225190E7}

events_SourceVolumeTicks

Type: **InteractionOccurrence**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: feedback_receiveSourceVolumeTicks *Keywords:*
 Detail: Created on 12.10.2011. Last modified on 12.10.2011.
 GUID: {FF0CA5D3-4E0C-4fc9-B794-791A435A5837}

source volume is changing

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: feedback_receiveSourceVolumeTicks *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {F9615D71-E96D-4822-95FF-3945AB69F6BA}

volume change ticks

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: feedback_receiveSourceVolumeTicks *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {E86650B3-1802-42b6-A269-C0976973CB5E}

feedback_receiveLowLevelInterrupts

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Feedback
Detail: Created on 09.09.2011. Last modified on 12.10.2011
GUID: {347EEF2A-CE7B-445c-AC3F-1532430864B7}

feedback_receiveLowLevelInterrupts - (Interaction diagram)

Created By: christian on 09.09.2011
Last Modified: 24.10.2011
Version: 1.0. *Locked:* False
GUID: {1C385B83-E81B-4341-8980-50FB46860D40}

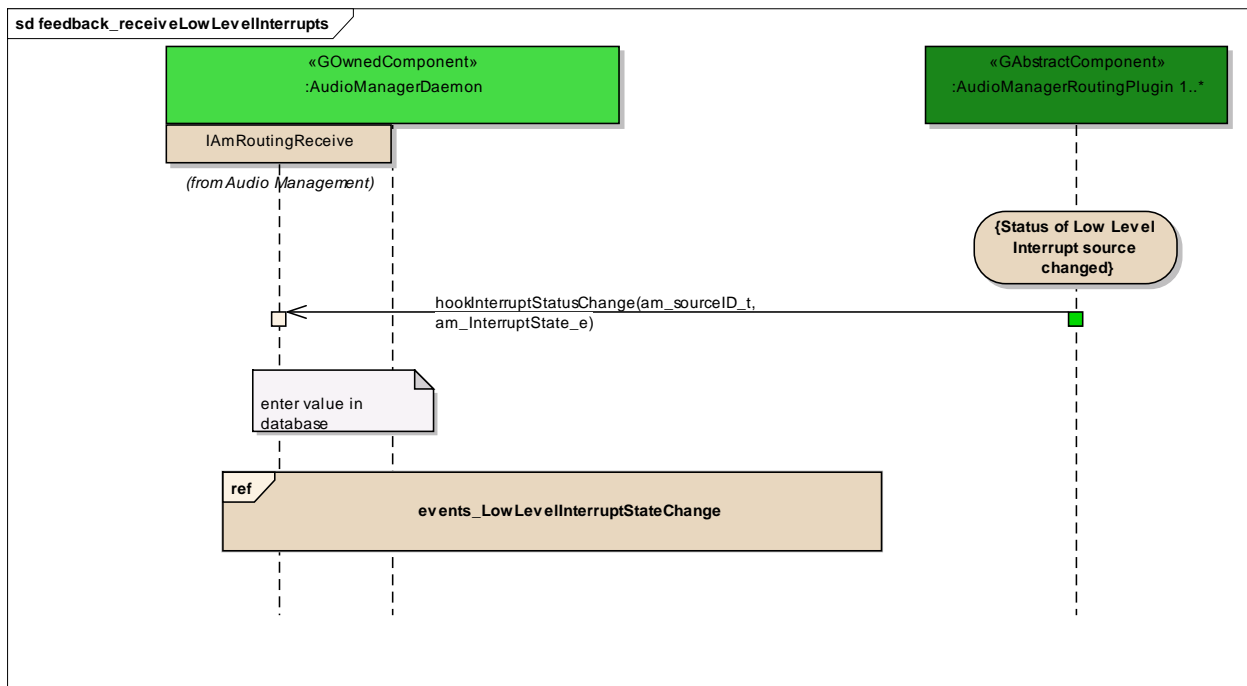


Figure: 6

events_LowLevelInterruptStateChange

Type: InteractionOccurrence
Status: Proposed. Version 1.0. Phase 1.0.
Package: feedback_receiveLowLevelInterrupts *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {AE3ADE1C-2CA1-4db8-A674-835A18F5C79A}

feedback_SinkAvailabilityChange

Type: Package
Status: Reworked. Version 1.0. Phase 1.0.
Package: Feedback
Detail: Created on 20.09.2011. Last modified on 12.10.2011
GUID: {E19E8B76-0000-4503-AD61-6EFBE9A4699E}

feedback_SinkAvailabilityChange - (Interaction diagram)

Created By: christian on 20.09.2011

Last Modified: 24.10.2011
 Version: 1.0. *Locked:* False
 GUID: {939BC05C-10E7-4c98-AD1C-DF6839952A64}

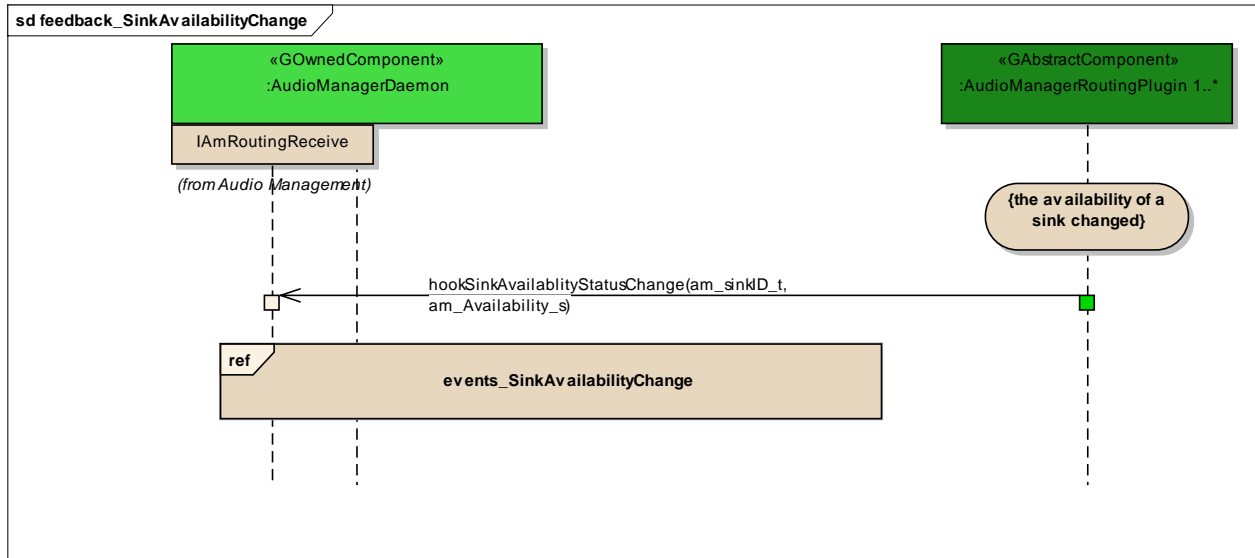


Figure: 7

events_SinkAvailabilityChange

Type: **InteractionOccurrence**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: feedback_SinkAvailabilityChange *Keywords:*
 Detail: Created on 12.10.2011. Last modified on 12.10.2011.
 GUID: {C80D6D4E-2DFC-4595-A849-FD92E2281C76}

feedback_SourceAvailabilityChange

Type: **Package**
 Status: Reworked. Version 1.0. Phase 1.0.
 Package: Feedback
 Detail: Created on 19.09.2011. Last modified on 12.10.2011
 GUID: {DE0A382C-E49E-4be7-9196-13200DF2E7DF}

feedback_SourceAvailabilityChange - (Interaction diagram)

Created By: christian on 19.09.2011

Last Modified: 24.10.2011
 Version: 1.0. Locked: False
 GUID: {7B24CB8D-E913-4a86-B11D-B69F896848D0}

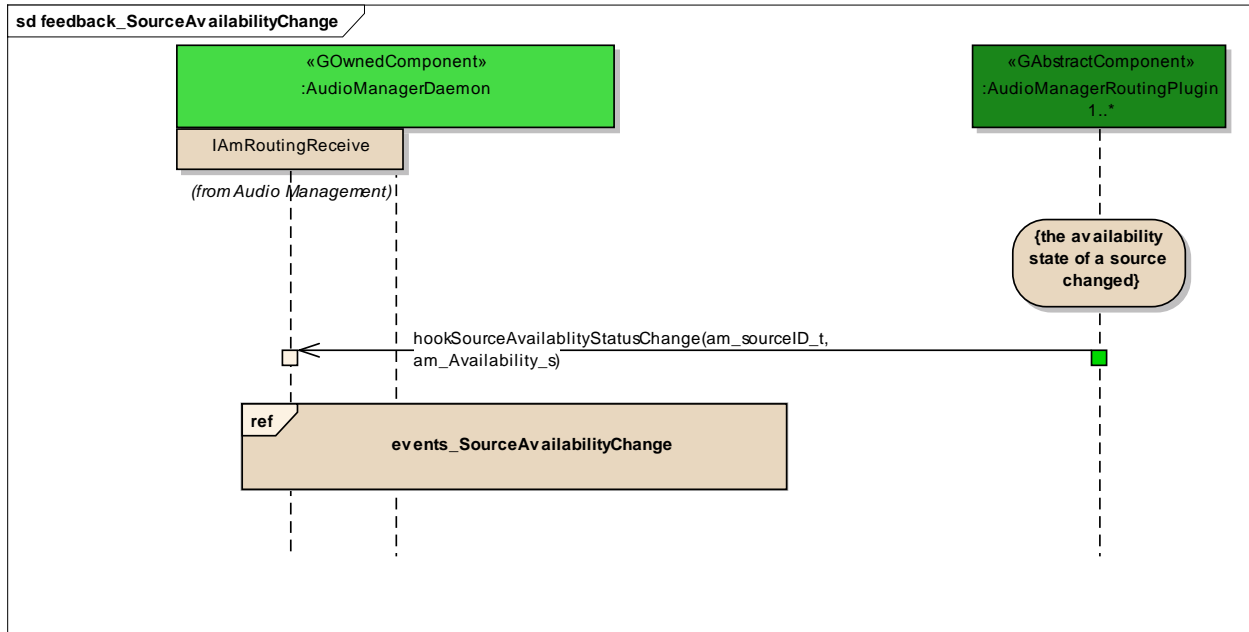


Figure: 8

events_SourceAvailabilityChange

Type: **InteractionOccurrence**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: feedback_SourceAvailabilityChange *Keywords:*
 Detail: Created on 12.10.2011. Last modified on 12.10.2011.
 GUID: {207EC64B-9B0A-47f4-8F6E-0CFF4E03287D}

feedback_TimingInformationChange

Type: **Package**
 Status: Reworked. Version 1.0. Phase 1.0.
 Package: Feedback
 Detail: Created on 23.09.2011. Last modified on 12.10.2011
 GUID: {27DDCEF3-88D9-4679-AA51-69A26C8D0BD0}

feedback_TimingInformationChange - (Interaction diagram)

Created By: christian on 23.09.2011

Last Modified: 24.10.2011

Version: 1.0. Locked: False

GUID: {F964DC7C-96EA-4a8b-A3DA-D4BC3F2056F7}

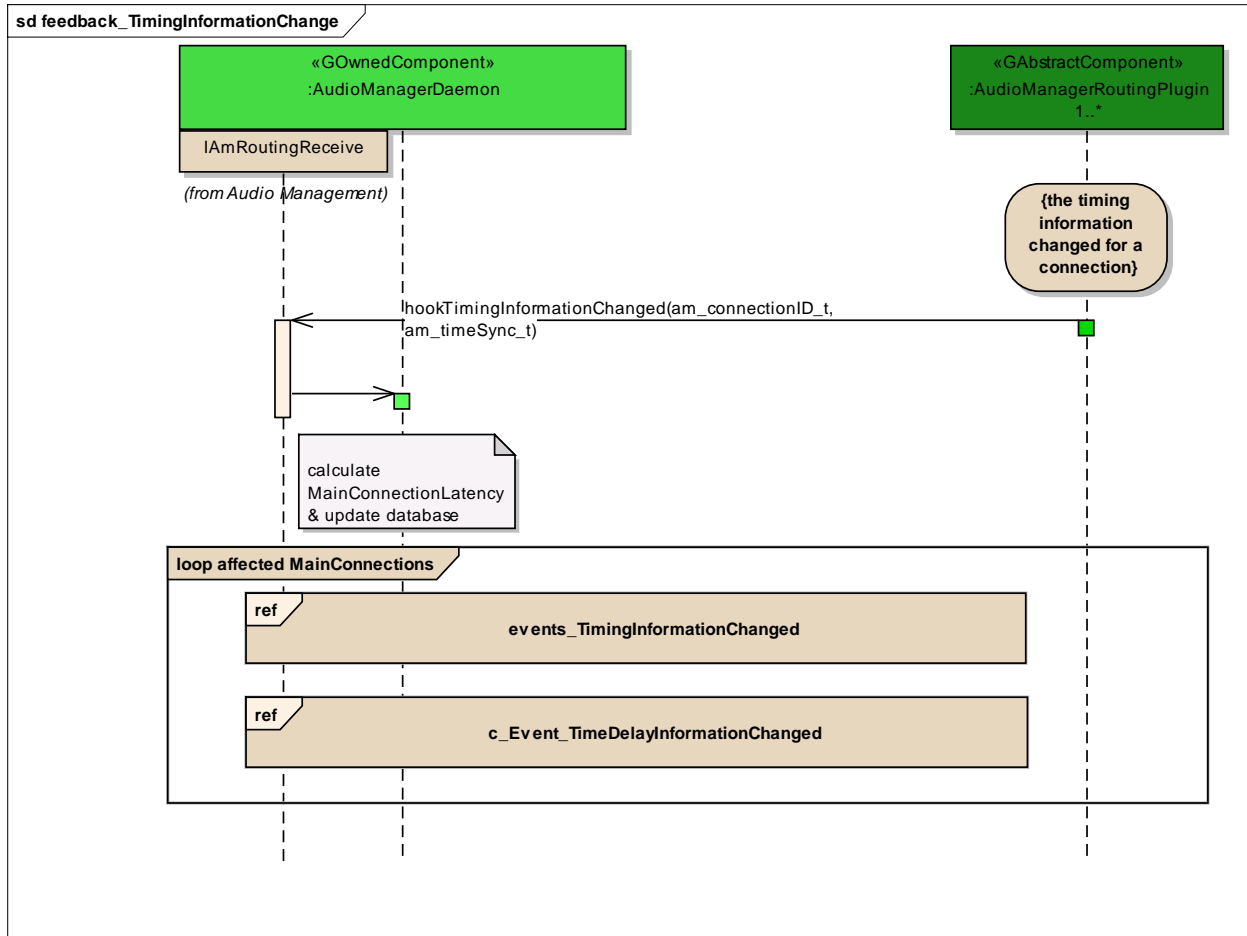


Figure: 9

affected MainConnections

Type: **InteractionFragment**

Status: Proposed. Version 1.0. Phase 1.0.

Package: feedback_TimingInformationChange *Keywords:*

Detail: Created on 11.10.2011. Last modified on 11.10.2011.

GUID: {DC6CB0A9-2D68-45a5-BBA7-F98A39044F0C}

c_Event_TimeDelayInformationChanged

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: feedback_TimingInformationChange *Keywords:*
Detail: Created on 23.09.2011. Last modified on 12.10.2011.
GUID: {16EB1A1C-90F4-48d0-841D-C51342261CB5}

events_TimingInformationChanged

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: feedback_TimingInformationChange *Keywords:*
Detail: Created on 23.09.2011. Last modified on 12.10.2011.
GUID: {3EAD7C21-7FEC-4648-95F0-C603EF00678E}

9.2 Actions

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Routing Interface
Detail: Created on 09.09.2011. Last modified on 09.09.2011
GUID: {1D945A97-676B-46fd-A37F-A91B74C2077B}

actions_AsynchronousSetSinkNotificationConfiguration

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Actions
Detail: Created on 29.01.2013. Last modified on 29.01.2013
GUID: {1748643B-1D36-406b-8E5D-E4D1D63FC3CA}

actions AsynchronousSetSinkNotificationConfiguration - (Interaction diagram)

Created By: q232968 on 29.01.2013

Last Modified: 29.01.2013

Version: 1.0. Locked: False

GUID: {13B0D116-BAF5-42a3-A1CF-19A38F80B67F}

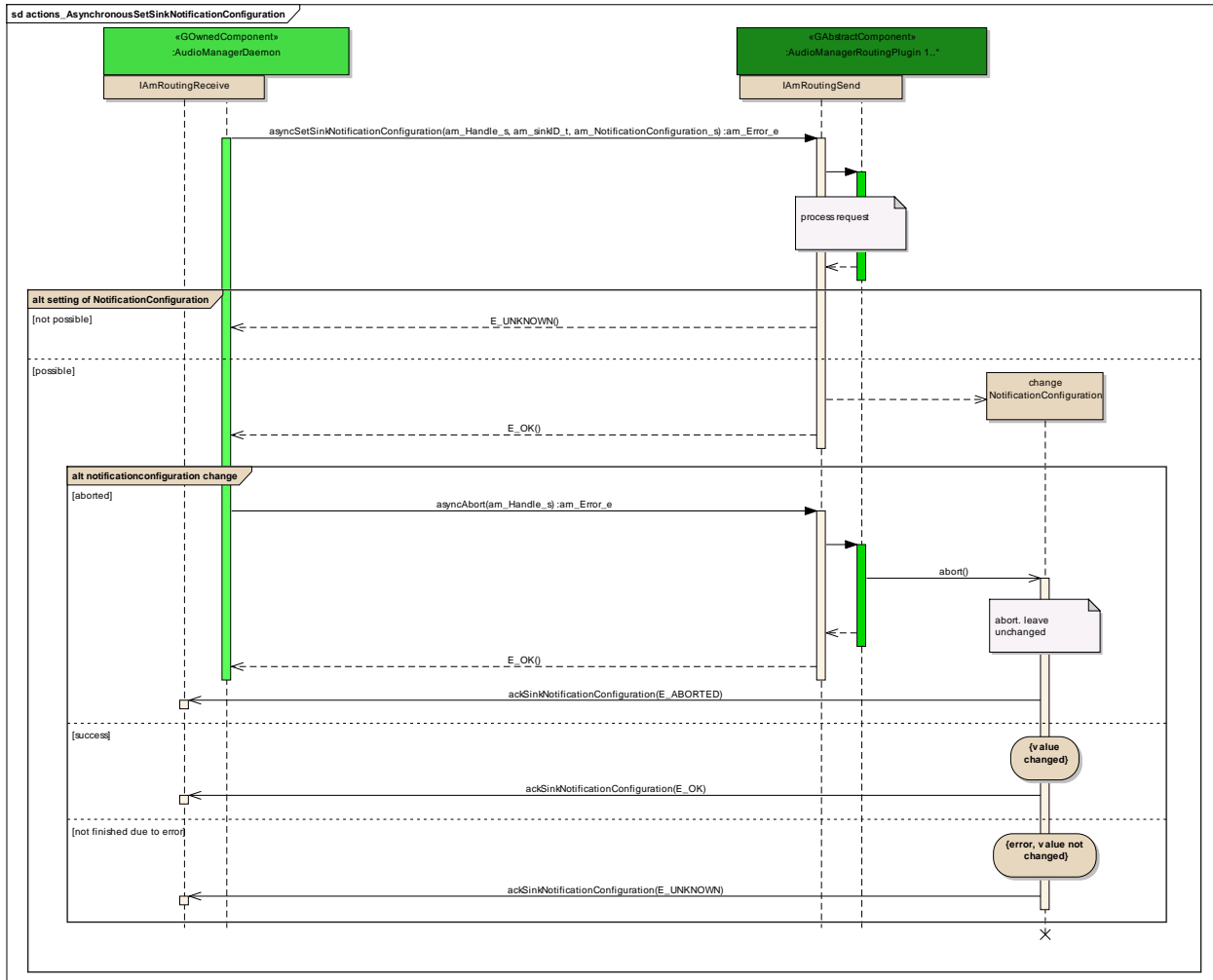


Figure: 10

change NotificationConfiguration

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: actions_AsynchronousSetSinkNotificationConfiguration *Keywords:*

Detail: Created on 29.01.2013. Last modified on 29.01.2013.

GUID: {5701247E-A7DA-4104-8D07-EA4141F2C0E6}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public IAmRoutingSend	Public change NotificationConfigu ration	
<u>Sequence</u> abort Source -> Destination	Public <anonymous>	Public change NotificationConfigu ration	
<u>Sequence</u> ackSinkNotificationC onfiguration(am_Han dle_s, am_Error_e) Source -> Destination	Public change NotificationConfigu ration	Public IAmRoutingReceiv e	
<u>Sequence</u> ackSinkNotificationC onfiguration(am_Han dle_s, am_Error_e) Source -> Destination	Public change NotificationConfigu ration	Public IAmRoutingReceiv e	
<u>Sequence</u> ackSinkNotificationC onfiguration(am_Han dle_s, am_Error_e) Source -> Destination	Public change NotificationConfigu ration	Public IAmRoutingReceiv e	

notificationconfiguration change

Type:

InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: actions_AsynchronousSetSinkNotificationConfiguration *Keywords:*

Detail: Created on 29.01.2013. Last modified on 29.01.2013.

GUID: {F14F8308-AE6A-420c-8427-272090935CB4}

setting of NotificationConfiguration

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AynchronousSetSinkNotificationConfiguration *Keywords:*
Detail: Created on 29.01.2013. Last modified on 29.01.2013.
GUID: {59B76DA7-9B8D-4bc6-9771-37650C2403F4}

actions_AynchronousSetSourceNotificationConfiguration

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Actions
Detail: Created on 30.01.2013. Last modified on 30.01.2013
GUID: {ECE93F71-6C9A-4a7b-B3BC-358EE1AF8882}

actions_AynchronousSetSourceNotificationConfiguration - (Interaction diagram)

Created By: q232968 on 29.01.2013
Last Modified: 31.01.2013
Version: 1.0. *Locked:* False
GUID: {700B85BB-2C94-43f3-98B7-84DE76938101}

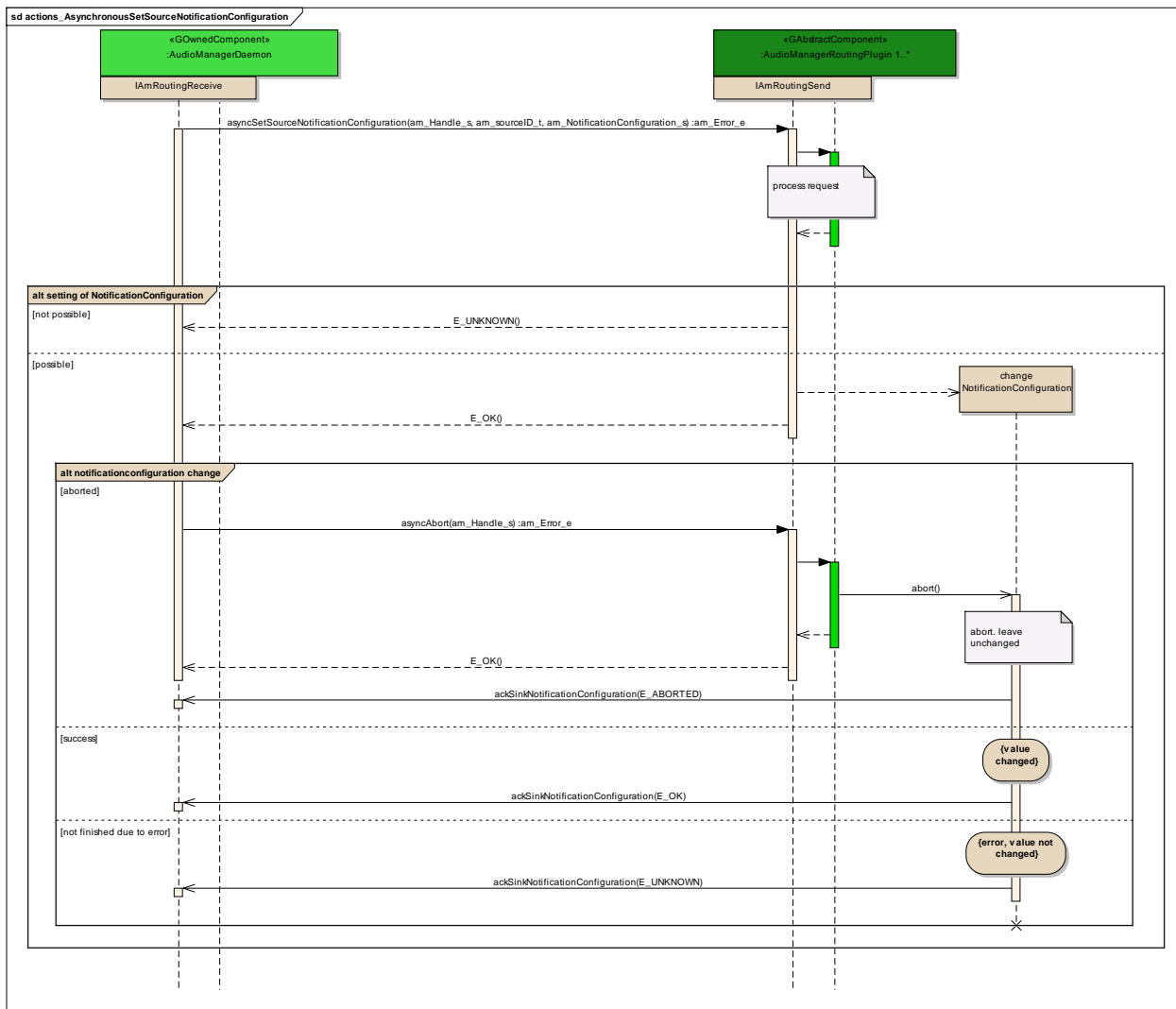


Figure: 11

change NotificationConfiguration

Type:

Sequence

Status:

Proposed. Version 1.0. Phase 1.0.

Package:

actions_AsynchronousSetSourceNotificationConfiguration

Keywords:

Detail:

Created on 29.01.2013. Last modified on 29.01.2013.

GUID:

{3D0DCE40-EFDC-4bfd-B32F-129C0E568EDE}

Connections

Connector	Source	Target	Notes
-----------	--------	--------	-------

Connector	Source	Target	Notes
Sequence Source -> Destination	Public IAmRoutingSend	Public change NotificationConfigu ration	
Sequence abort Source -> Destination	Public <anonymous>	Public change NotificationConfigu ration	
Sequence ackSinkNotificationC onfiguration(am_Han dle_s, am_Error_e) Source -> Destination	Public change NotificationConfigu ration	Public IAmRoutingReceiv e	
Sequence ackSinkNotificationC onfiguration(am_Han dle_s, am_Error_e) Source -> Destination	Public change NotificationConfigu ration	Public IAmRoutingReceiv e	
Sequence ackSinkNotificationC onfiguration(am_Han dle_s, am_Error_e) Source -> Destination	Public change NotificationConfigu ration	Public IAmRoutingReceiv e	

notificationconfiguration change

Type:

InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: actions_AynchronousSetSourceNotificationConfiguration *Keywords:*

Detail: Created on 29.01.2013. Last modified on 29.01.2013.

GUID: {28CECAE7-BD4C-4e67-B3EB-6DFE68BA2560}

setting of NotificationConfiguration

Type:

InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AynchronousSetSourceNotificationConfiguration *Keywords:*
Detail: Created on 29.01.2013. Last modified on 29.01.2013.
GUID: {174BD59A-8CDF-4969-8323-AC4CA46FFC80}

actions_SetDomainState

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Actions
Detail: Created on 11.10.2011. Last modified on 12.10.2011
GUID: {F0837207-2B09-47e5-9428-48D7964B014C}

actions_SetDomainState - (Interaction diagram)

Created By: christian on 11.10.2011
Last Modified: 12.10.2011
Version: 1.0. *Locked:* False
GUID: {69D1A644-4405-4a76-A82B-FC6CB587B5A1}

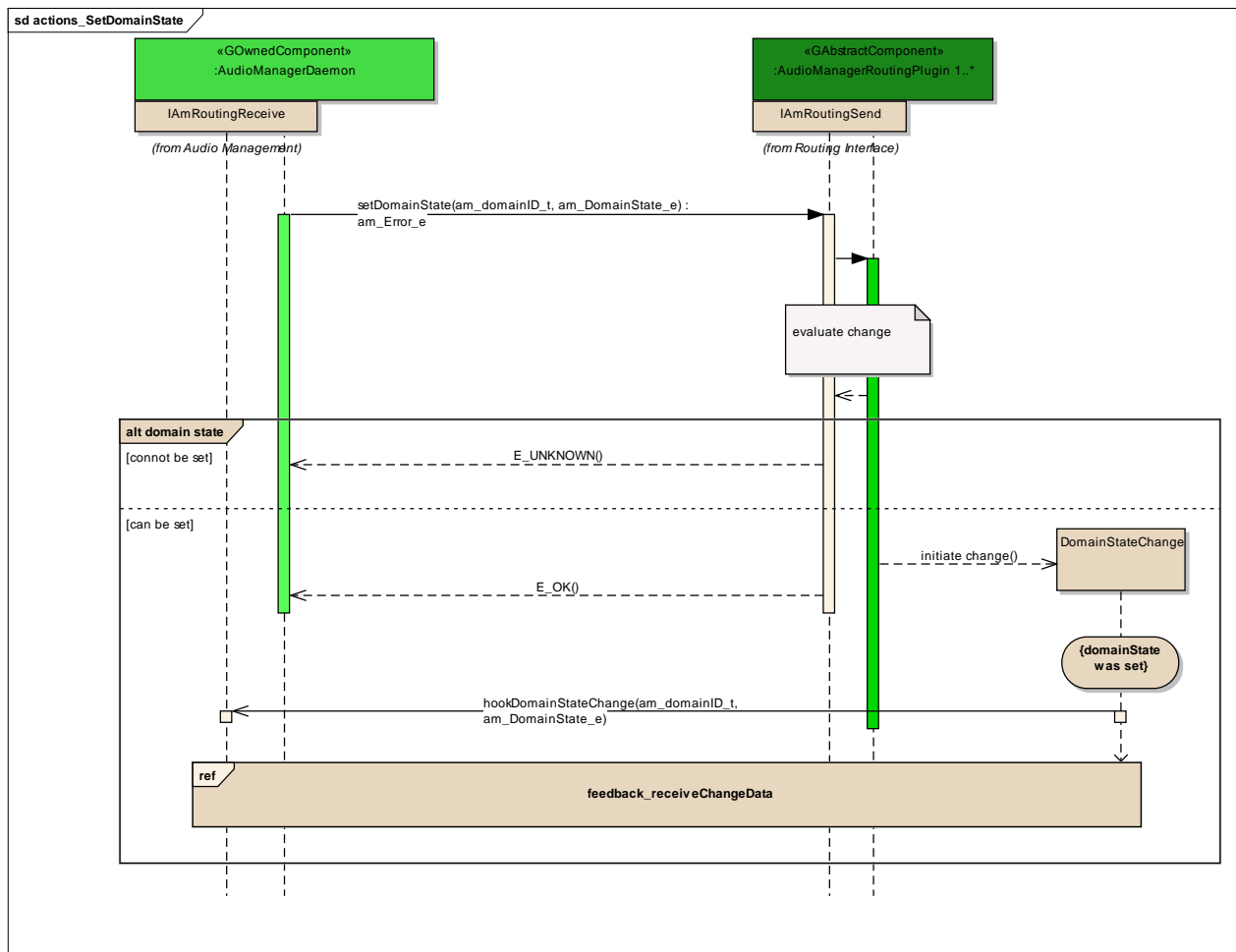


Figure: 12

DomainStateChange

Type: Sequence
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: actions_SetDomainState *Keywords:*
 Detail: Created on 11.10.2011. Last modified on 11.10.2011.
 GUID: {8F4E2664-CC08-4a9a-A864-46D04901B81F}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> initiate change Source -> Destination	Public <anonymous>	Public DomainStateChange	e

Connector	Source	Target	Notes
<u>Sequence</u> hookDomainStateChange(am_domainID_t, am_DomainState_e) Source -> Destination	Public DomainStateChange	Public IAmRoutingReceive	

domain state

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_SetDomainState *Keywords:*
Detail: Created on 11.10.2011. Last modified on 11.10.2011.
GUID: {ED8AFE52-F074-43bc-ABC1-D4A9ECA11202}

feedback_receiveChangeData

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_SetDomainState *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {7B3747DA-547B-418d-9E56-27EA55D4FFED}

actions_AsyncCrossFade

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Actions
Detail: Created on 07.09.2011. Last modified on 12.10.2011
GUID: {C645B6B4-B2C8-4fa8-8AC5-04DA602C630C}

actions_AsyncCrossFade - (Interaction diagram)

Created By: christian on 07.09.2011

Last Modified: 12.10.2011
 Version: 1.0. Locked: False
 GUID: {5891891C-313C-402a-B618-98C5D81C764D}

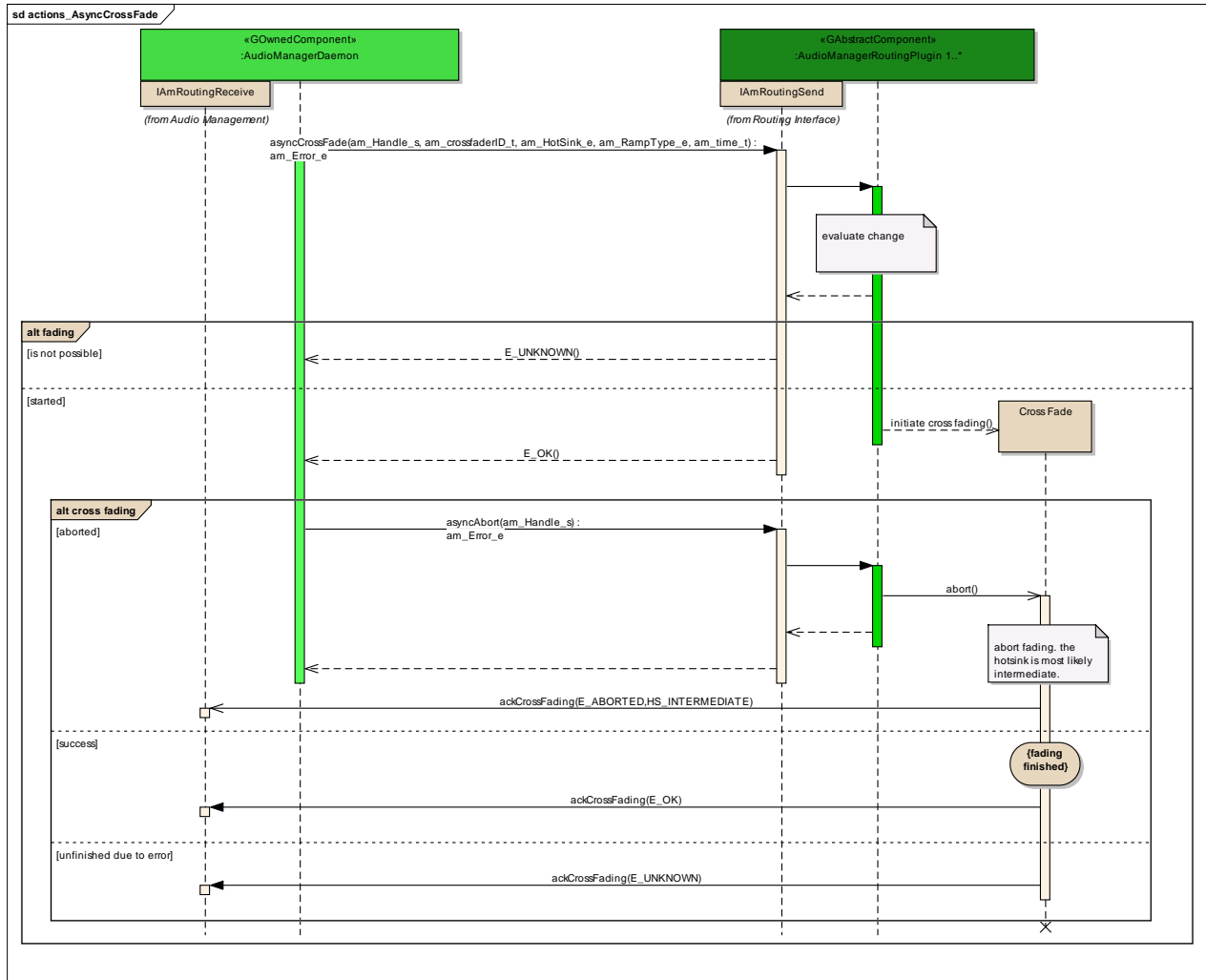


Figure: 13

Cross Fade

Type: Sequence
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: actions_AsyncCrossFade *Keywords:*
 Detail: Created on 07.09.2011. Last modified on 07.09.2011.
 GUID: {08D68DFC-A210-4e90-9743-9DB7B3218940}

Connections

Connector	Source	Target	Notes
Sequence initiate cross fading Source -> Destination	Public <anonymous>	Public Cross Fade	
Sequence abort Source -> Destination	Public <anonymous>	Public Cross Fade	
Sequence ackCrossFading(am_ handle_t, am_HotSink_e, am_error_t) Source -> Destination	Public Cross Fade	Public IAmRoutingReceiv e	
Sequence ackCrossFading(am_ handle_t, am_HotSink_e, am_error_t) Source -> Destination	Public Cross Fade	Public IAmRoutingReceiv e	
Sequence ackCrossFading(am_ handle_t, am_HotSink_e, am_error_t) Source -> Destination	Public Cross Fade	Public IAmRoutingReceiv e	

cross fading

Type: InteractionFragment
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsyncCrossFade **Keywords:**
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {D7C81377-9DC5-4dbd-ACA3-9C2BACFA6EF2}

fading

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsyncCrossFade *Keywords:*
Detail: Created on 07.09.2011. Last modified on 07.09.2011.
GUID: {D5DD75C4-C241-446a-9612-C5D4F40A5BAA }

actions_AsynchronouSetSourceSoundProperty

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Actions
Detail: Created on 06.09.2011. Last modified on 11.10.2011
GUID: {C8725347-7B55-40c7-AB4F-AC2B76967C45 }

actions_AsynchronouSetSourceSoundProperty - (Interaction diagram)

Created By: christian on 06.09.2011
Last Modified: 11.10.2011
Version: 1.0. *Locked:* False
GUID: {2160D3F5-B78B-443f-BCB9-27D071469CFB }

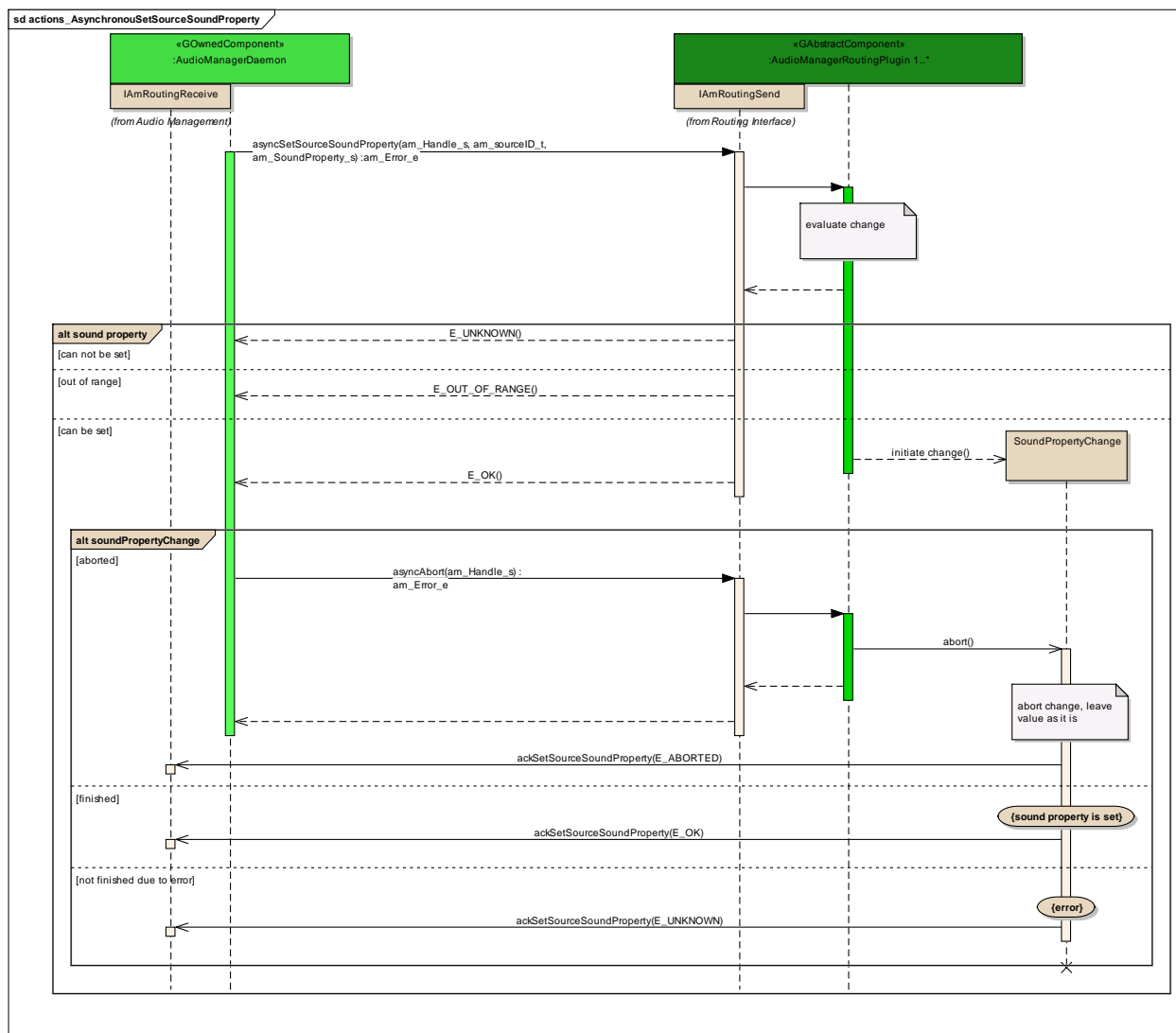


Figure: 14

SoundPropertyChange

Type: **Sequence**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: actions_AsynchronousSetSourceSoundProperty *Keywords:*
 Detail: Created on 05.10.2011. Last modified on 05.10.2011.
 GUID: {96E2E73B-3AAB-4181-BC20-DF03148C6496}

Connections

Connector	Source	Target	Notes
-----------	--------	--------	-------

Connector	Source	Target	Notes
Sequence initiate change Source -> Destination	Public <anonymous>	Public SoundPropertyChange	
Sequence abort Source -> Destination	Public <anonymous>	Public SoundPropertyChange	
Sequence ackSetSourceSoundProperty(am_handle_t, am_error_t) Source -> Destination	Public SoundPropertyChange	Public IAmRoutingReceiver	
Sequence ackSetSourceSoundProperty(am_handle_t, am_error_t) Source -> Destination	Public SoundPropertyChange	Public IAmRoutingReceiver	
Sequence ackSetSourceSoundProperty(am_handle_t, am_error_t) Source -> Destination	Public SoundPropertyChange	Public IAmRoutingReceiver	

sound property

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsynchrouSetSourceSoundProperty *Keywords:*
Detail: Created on 08.09.2011. Last modified on 08.09.2011.
GUID: {37EF046B-A904-4c8d-9497-401291195902}

soundPropertyChange

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsynchrouSetSourceSoundProperty *Keywords:*

Detail: Created on 05.10.2011. Last modified on 05.10.2011.
GUID: {DD968058-91C5-4485-8530-96CD0498318B}

actions_AsynchronousSetSinkSoundProperty

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Actions
Detail: Created on 22.09.2011. Last modified on 11.10.2011
GUID: {078BA4CA-74EC-4079-B121-EAE4A5B79186}

actions_AsynchronousSetSinkSoundProperty - (Interaction diagram)

Created By: christian on 22.09.2011
Last Modified: 11.10.2011
Version: 1.0. *Locked:* False
GUID: {94DB7C80-EA1B-441a-82D1-AEA6E50A715D}

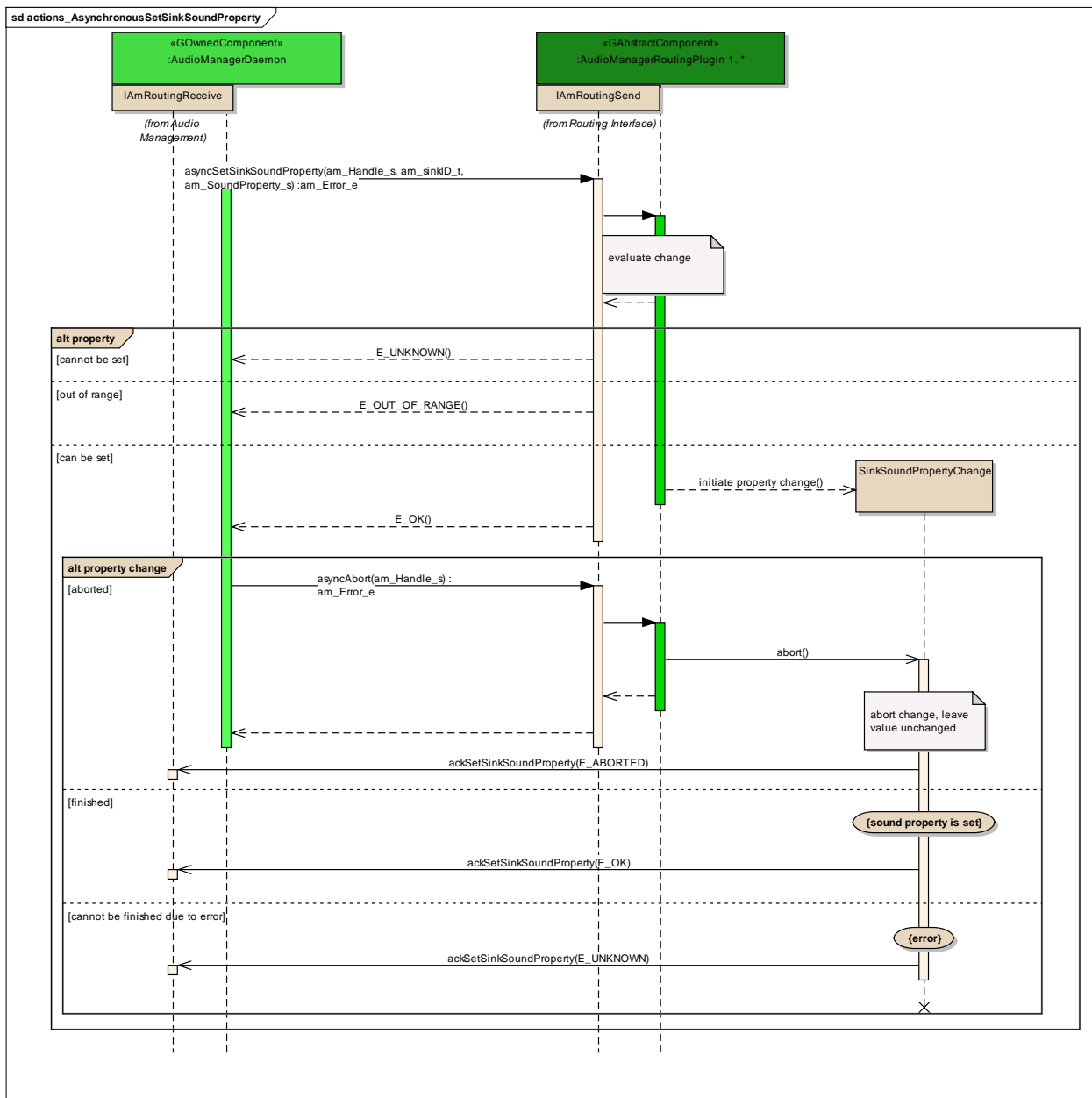


Figure: 15

SinkSoundPropertyChange

Type:

Sequence

Status:

Proposed. Version 1.0. Phase 1.0.

Package:

actions_AsynchronousSetSinkSoundProperty *Keywords:*

Detail:

Created on 07.10.2011. Last modified on 07.10.2011.

GUID:

{EFCBF187-B126-410e-9EAB-705AA2727E74}

Connections

Connector	Source	Target	Notes
Sequence initiate property change Source -> Destination	Public <anonymous>	Public SinkSoundProperty Change	
Sequence abort Source -> Destination	Public <anonymous>	Public SinkSoundProperty Change	
Sequence ackSetSinkSoundPro perty(am_handle_t, am_error_t) Source -> Destination	Public SinkSoundProperty Change	Public IAmRoutingReceiv e	
Sequence ackSetSinkSoundPro perty(am_handle_t, am_error_t) Source -> Destination	Public SinkSoundProperty Change	Public IAmRoutingReceiv e	
Sequence ackSetSinkSoundPro perty(am_handle_t, am_error_t) Source -> Destination	Public SinkSoundProperty Change	Public IAmRoutingReceiv e	

property

Type:

InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: actions_AynchronousSetSinkSoundProperty *Keywords:*

Detail: Created on 22.09.2011. Last modified on 07.10.2011.

GUID: {A554525F-97C6-4a89-A643-FE024CF4A216}

property change

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AynchronousSetSinkSoundProperty *Keywords:*
Detail: Created on 07.10.2011. Last modified on 07.10.2011.
GUID: {E7A651FF-DE50-4a7f-B331-473BF6AD5A3A}

actions_AynchronousSourceStateChange

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Actions
Detail: Created on 17.08.2011. Last modified on 11.10.2011
GUID: {979D0C9D-EEE1-474a-BD5E-1D83F74A3A0E}

actions_AynchronousSourceStateChange - (Interaction diagram)

Created By: christian on 17.08.2011
Last Modified: 11.10.2011
Version: 1.0. *Locked:* False
GUID: {E94221AD-0522-47d9-8F78-59DABEF43656}

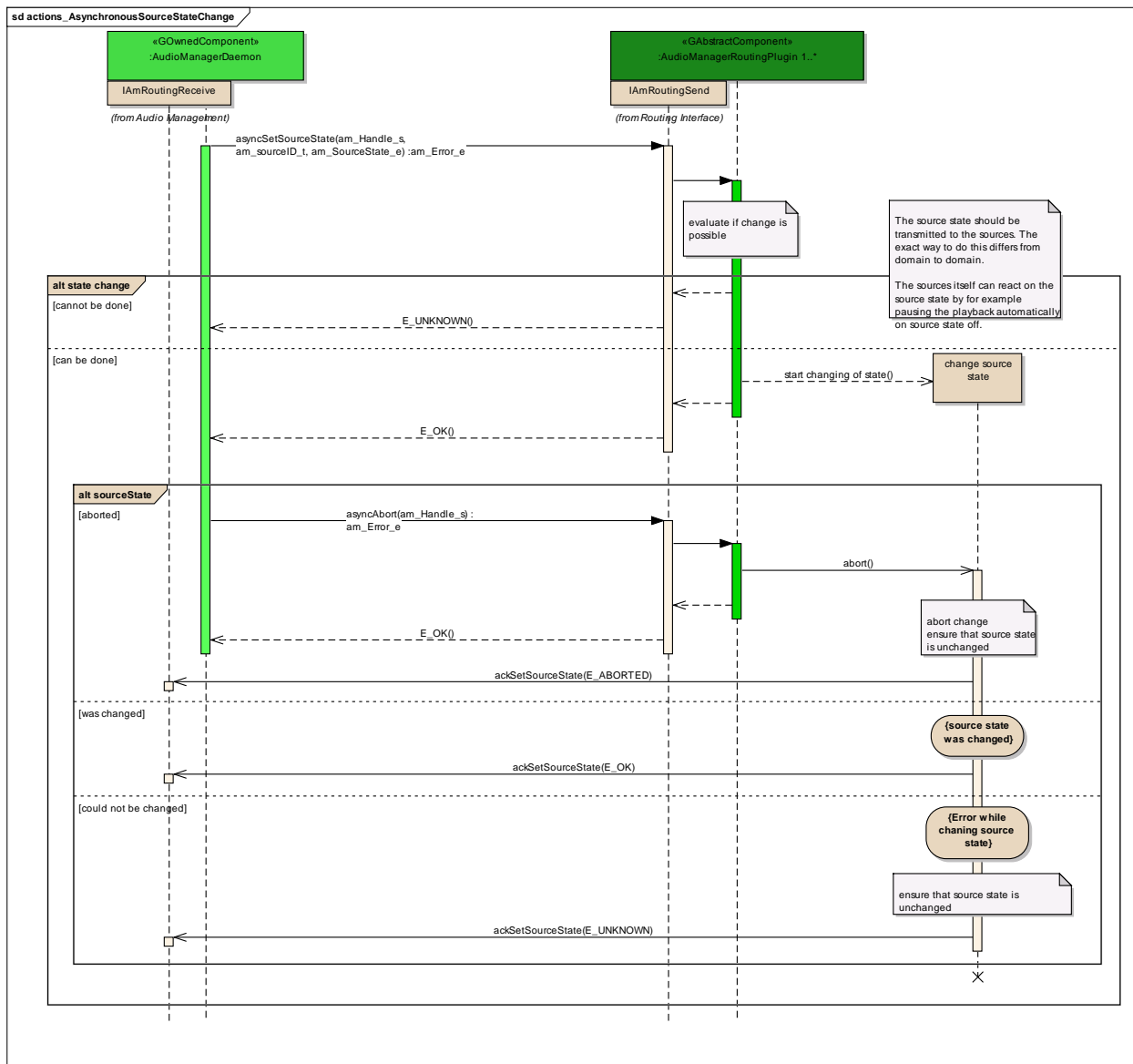


Figure: 16

change source state

Type:

Sequence

Status:

Proposed. Version 1.0. Phase 1.0.

Package:

actions_AynchronousSourceStateChange *Keywords:*

Detail:

Created on 30.09.2011. Last modified on 30.09.2011.

GUID:

{0D8CB4D7-FC8B-4fa0-A710-A0C374CA160E}

Connections

Connector	Source	Target	Notes
Sequence start changing of state Source -> Destination	Public <anonymous>	Public change source state	
Sequence abort Source -> Destination	Public <anonymous>	Public change source state	
Sequence ackSetSourceState(a m_handle_t, am_error_t) Source -> Destination	Public change source state	Public IAmRoutingReceiv e	
Sequence ackSetSourceState(a m_handle_t, am_error_t) Source -> Destination	Public change source state	Public IAmRoutingReceiv e	
Sequence ackSetSourceState(a m_handle_t, am_error_t) Source -> Destination	Public change source state	Public IAmRoutingReceiv e	

sourceState

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsynchronousSourceStateChange *Keywords:*
Detail: Created on 30.09.2011. Last modified on 30.09.2011.
GUID: {13E60352-A1A1-4e38-9494-1B6C90A5BC1B}

state change

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.

Package: actions_AynchronousSourceStateChange *Keywords:*
 Detail: Created on 09.09.2011. Last modified on 09.09.2011.
 GUID: {A204EA07-A9BF-47f5-B1A6-BB31C73FCF1C}

actions_AynchronousAbortAction

Type: Package
 Status: Reworked. Version 1.0. Phase 1.0.
 Package: Actions
 Detail: Created on 08.09.2011. Last modified on 11.10.2011
 GUID: {C957DC59-9234-46ba-A4A4-C383F2672B3B}

actions_AynchronousAbortAction - (Interaction diagram)

Created By: christian on 08.09.2011
 Last Modified: 11.10.2011
 Version: 1.0. *Locked:* False
 GUID: {6CDFB30A-0C7C-4876-BF4C-D305233D7FB5}

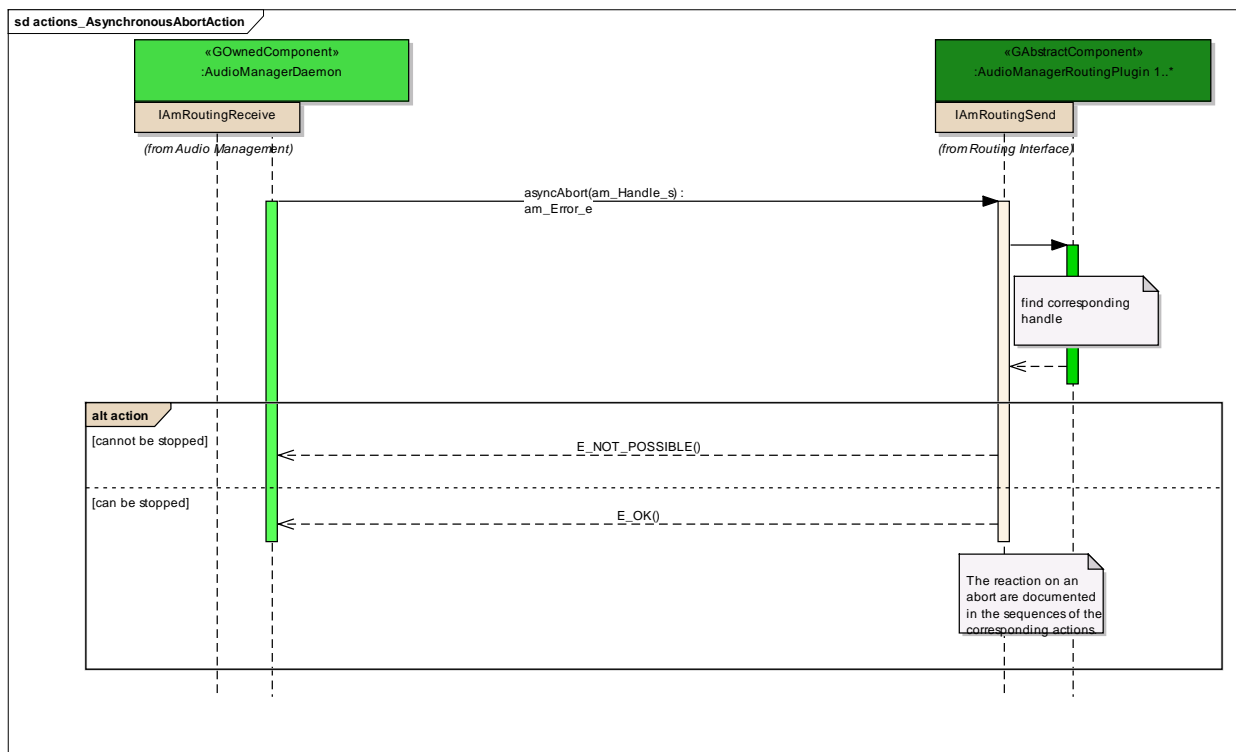


Figure: 17

action

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AynchronousAbortAction *Keywords:*
Detail: Created on 09.09.2011. Last modified on 09.09.2011.
GUID: {104ADA75-459F-4b91-AE1F-D3A80A2FB104}

action was

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AynchronousAbortAction *Keywords:*
Detail: Created on 09.09.2011. Last modified on 09.09.2011.
GUID: {6FD3AE88-04EE-4d6e-9C86-924CED974693}

actions_AynchronousSinkVolumeChange

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Actions
Detail: Created on 06.09.2011. Last modified on 11.10.2011
GUID: {4370366A-A91E-4066-ADE8-BD9AA3DE068C}

actions_AynchronousSinkVolumeChange - (Interaction diagram)

Created By: christian on 06.09.2011
Last Modified: 11.10.2011
Version: 1.0. *Locked:* False
GUID: {0AAAF8D8-63E9-4f9a-B744-4F997BDB7430}

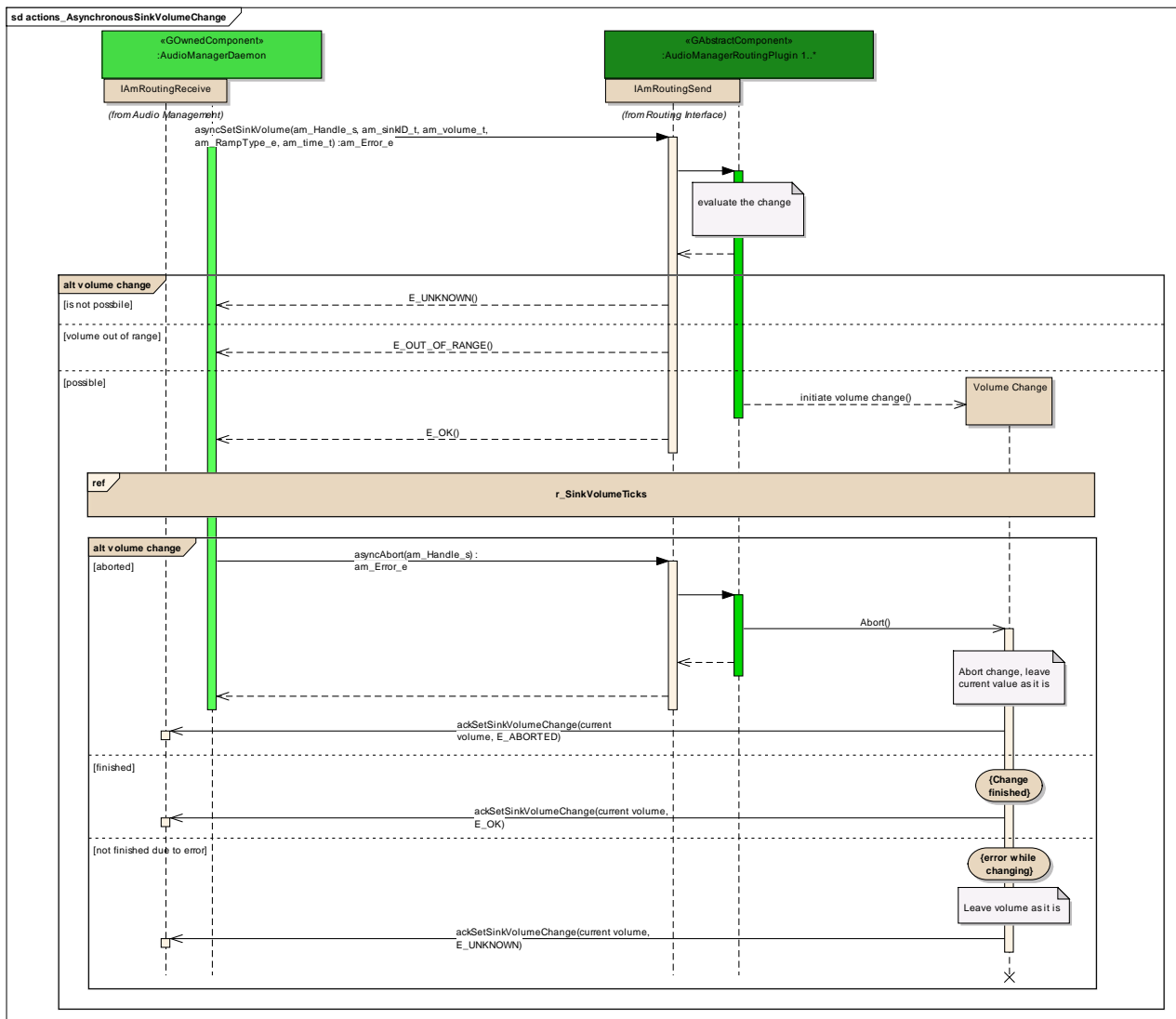


Figure: 18

Volume Change

Type:

Sequence

Status:

Proposed. Version 1.0. Phase 1.0.

Package:

actions_AsynchronousSinkVolumeChange *Keywords:*

Detail:

Created on 07.09.2011. Last modified on 07.09.2011.

GUID:

{73AFA36B-CF3A-457e-8667-16CE1EB35531}

Connections

Connector	Source	Target	Notes
Sequence initiate volume change Source -> Destination	Public <anonymous>	Public Volume Change	
Sequence Abort Source -> Destination	Public <anonymous>	Public Volume Change	
Sequence ackSetSinkVolumeChange(am_Handle_s, am_volume_t, am_Error_e) Source -> Destination	Public Volume Change	Public IAmRoutingReceiver	
Sequence ackSetSinkVolumeChange(am_Handle_s, am_volume_t, am_Error_e) Source -> Destination	Public Volume Change	Public IAmRoutingReceiver	
Sequence ackSetSinkVolumeChange(am_Handle_s, am_volume_t, am_Error_e) Source -> Destination	Public Volume Change	Public IAmRoutingReceiver	

r_SinkVolumeTicks

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AynchronousSinkVolumeChange *Keywords:*
Detail: Created on 04.10.2011. Last modified on 04.10.2011.
GUID: {BBD0FC19-6E47-44a5-9110-38CE60EF41B7}

volume change

Type: **InteractionFragment**

Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AynchronousSinkVolumeChange *Keywords:*
Detail: Created on 07.09.2011. Last modified on 07.09.2011.
GUID: {ECC1DC71-D8C3-47a3-AA29-9B15816DAE8B}

volume change

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AynchronousSinkVolumeChange *Keywords:*
Detail: Created on 04.10.2011. Last modified on 04.10.2011.
GUID: {0E77434C-E240-46d4-8DE7-39830B8A10BE}

actions_AynchronousSourceVolumeChange

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Actions
Detail: Created on 05.09.2011. Last modified on 11.10.2011
GUID: {199CEE88-FDF3-4b2c-A290-6AE5072B8FC3}

actions_AynchronousSourceVolumeChange - (Interaction diagram)

Created By: christian on 05.09.2011
Last Modified: 29.11.2012
Version: 1.0. *Locked:* False
GUID: {A2A91E86-5EEC-424e-A52D-1FD0BCF03B95}

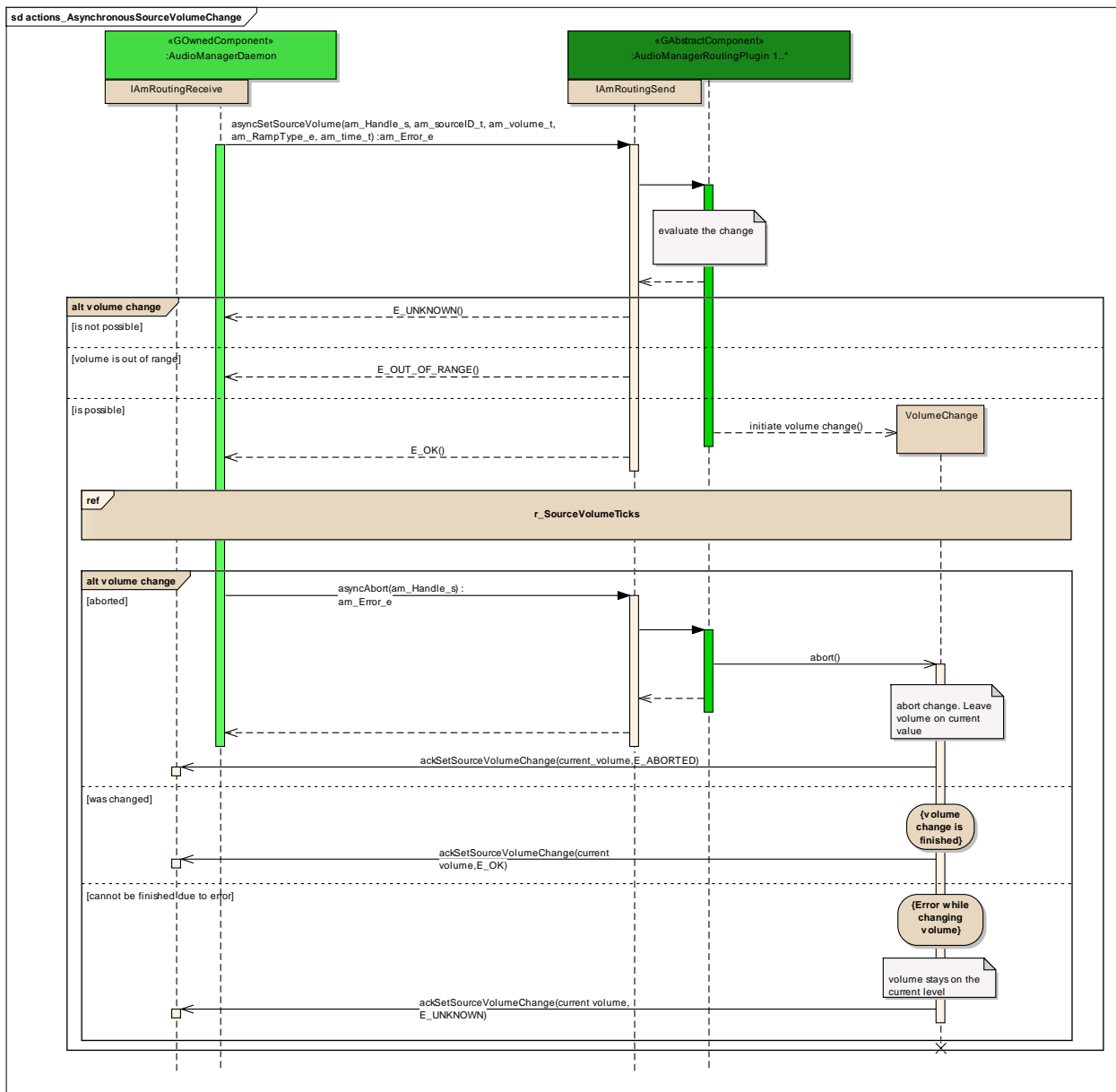


Figure: 19

VolumeChange

Type: Sequence
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsynchrouousSourceVolumeChange *Keywords:*
Detail: Created on 07.09.2011. Last modified on 07.09.2011.
GUID: {753AD0E0-D869-477c-9407-E15EEA1508B4}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> initiate volume change Source -> Destination	Public <anonymous>	Public VolumeChange	
<u>Sequence</u> abort Source -> Destination	Public <anonymous>	Public VolumeChange	
<u>Sequence</u> ackSetSourceVolume Change(am_Handle_ s, am_volume_t, am_Error_e) Source -> Destination	Public VolumeChange	Public IAmRoutingReceiv e	
<u>Sequence</u> ackSetSourceVolume Change(am_Handle_ s, am_volume_t, am_Error_e) Source -> Destination	Public VolumeChange	Public IAmRoutingReceiv e	
<u>Sequence</u> ackSetSourceVolume Change(am_Handle_ s, am_volume_t, am_Error_e) Source -> Destination	Public VolumeChange	Public IAmRoutingReceiv e	

r_SourceVolumeTicks

Type: InteractionOccurrence
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AynchronousSourceVolumeChange *Keywords:*
Detail: Created on 04.10.2011. Last modified on 04.10.2011.
GUID: {D77383B9-BA7C-4aa3-8861-A7267663E651 }

volume change

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsynchronousSourceVolumeChange *Keywords:*
Detail: Created on 07.09.2011. Last modified on 07.09.2011.
GUID: {B05AAA91-802A-4f08-B332-67BAC86BA737}

volume change

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsynchronousSourceVolumeChange *Keywords:*
Detail: Created on 04.10.2011. Last modified on 04.10.2011.
GUID: {7FE10634-2E5C-41c7-A394-26EEEA721A7A}

volume change

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsynchronousSourceVolumeChange *Keywords:*
Detail: Created on 07.09.2011. Last modified on 07.09.2011.
GUID: {7614A1C5-E812-4b9e-B6CE-D7E2BB0D57B3}

actions_AsynchronousDisconnect

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Actions
Detail: Created on 24.08.2011. Last modified on 12.10.2011
GUID: {D7CD83F0-B7F8-40f5-A0F5-EB49339CA324}

actions AsynchronousDisconnect - (Interaction diagram)

Created By: christian on 24.08.2011
 Last Modified: 12.10.2011
 Version: 1.0. Locked: False
 GUID: {FA8EB988-7129-43e0-945A-65FB716377D2}

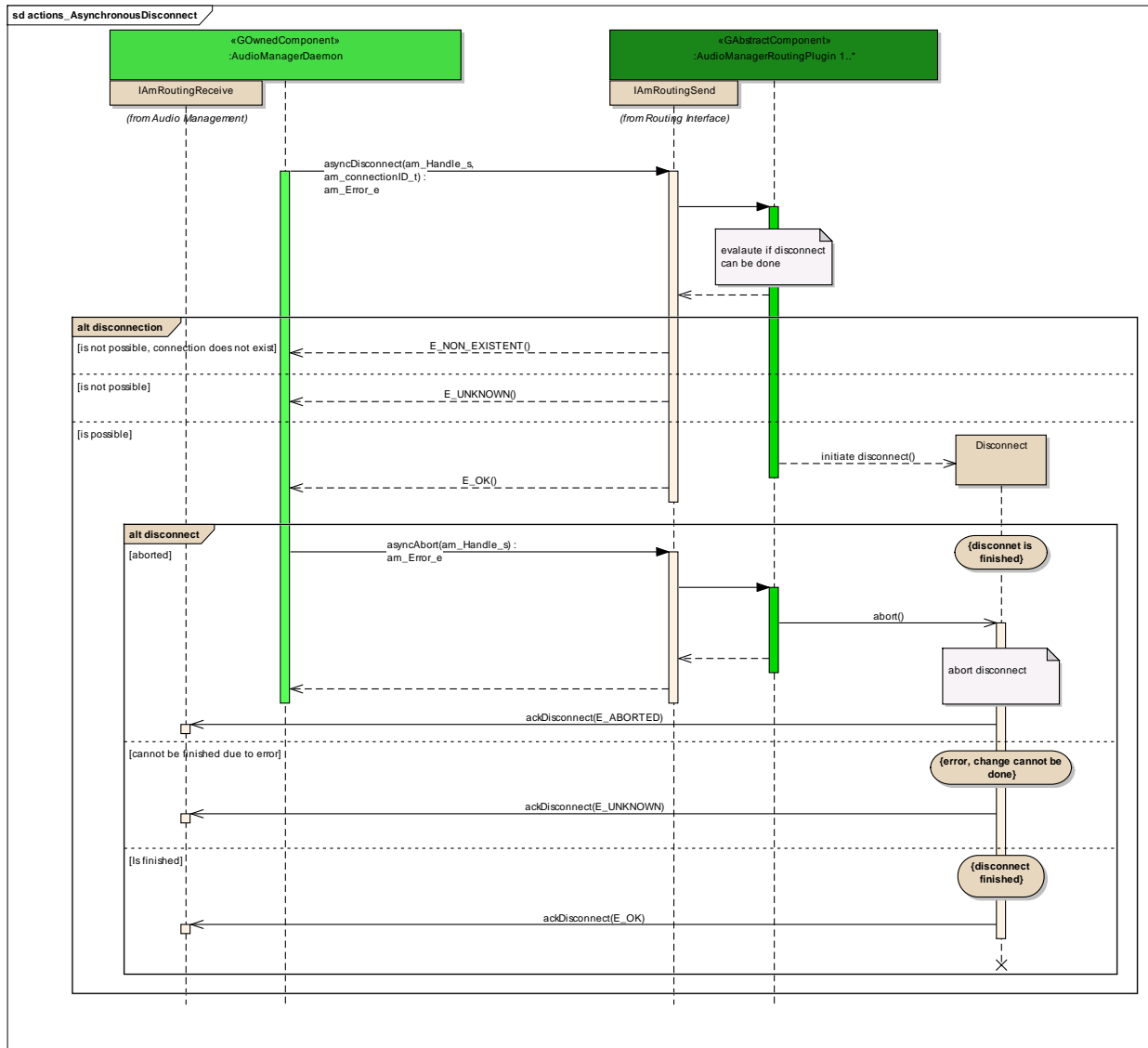


Figure: 20

Disconnect

Type: Sequence
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: actions_AsynchronousDisconnect *Keywords:*
 Detail: Created on 24.08.2011. Last modified on 24.08.2011.

GUID: {9B98FC84-98DE-4034-819B-1B22417E88FE}

Connections

Connector	Source	Target	Notes
Sequence initiate disconnect Source -> Destination	Public <anonymous>	Public Disconnect	
Sequence abort Source -> Destination	Public <anonymous>	Public Disconnect	
Sequence ackDisconnect(am_H andle_s, am_connectionID_t, am_Error_e) Source -> Destination	Public Disconnect	Public IAmRoutingReceiv e	
Sequence ackDisconnect(am_H andle_s, am_connectionID_t, am_Error_e) Source -> Destination	Public Disconnect	Public IAmRoutingReceiv e	
Sequence ackDisconnect(am_H andle_s, am_connectionID_t, am_Error_e) Source -> Destination	Public Disconnect	Public IAmRoutingReceiv e	

disconnect

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsynchronousDisconnect *Keywords:*
Detail: Created on 24.08.2011. Last modified on 24.08.2011.
GUID: {68A4A5FC-568E-4af0-A5D6-8068027CFBD0}

disconnection

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsynchronousDisconnect *Keywords:*
Detail: Created on 24.08.2011. Last modified on 24.08.2011.
GUID: {23708B08-D308-4341-A2F7-E9DA5A386C7F}

actions_AsynchronousMultipleVolumeChange

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Actions
Detail: Created on 29.11.2012. Last modified on 29.11.2012
GUID: {CEE7CADD-53A7-48ed-A88C-A7D58B68E7E7}

actions_AsynchronousMultipleVolumeChange - (Interaction diagram)

Created By: q232968 on 29.11.2012
Last Modified: 29.11.2012
Version: 1.0. *Locked:* False
GUID: {43186345-EB25-4534-A2A5-67655D3755A0}

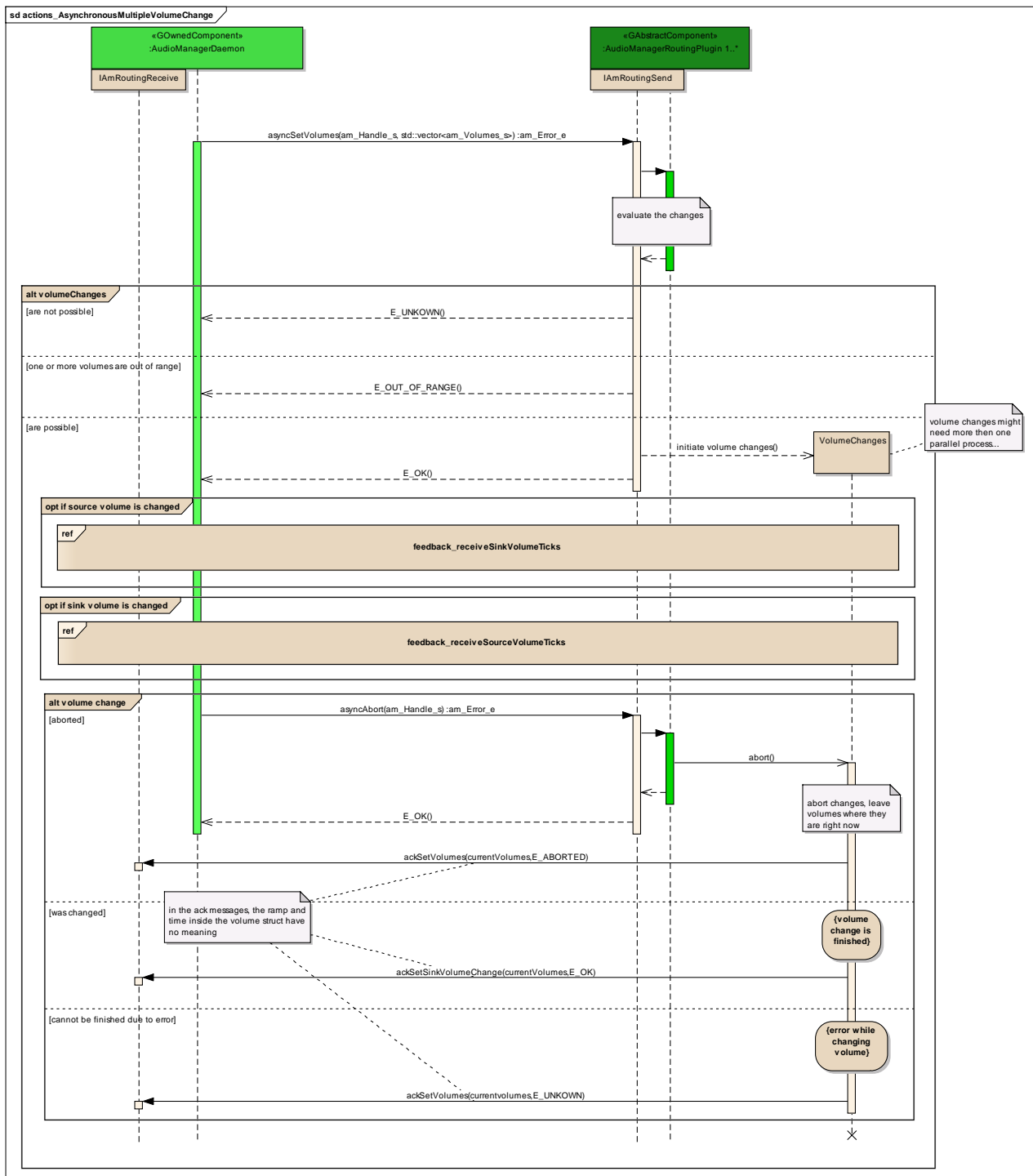


Figure: 21

VolumeChanges

Type:

Sequence

Status:

Proposed. Version 1.0. Phase 1.0.

Package: actions_AsynchronousMultipleVolumeChange *Keywords:*
Detail: Created on 29.11.2012. Last modified on 29.11.2012.
GUID: {B7EAF9C2-552E-4d40-9119-8B9B25A93E04}

Connections

Connector	Source	Target	Notes
<u>NoteLink</u>	Public <anonymous>	Public VolumeChanges	
<u>Sequence</u> initiate volume changes Source -> Destination	Public IAmRoutingSend	Public VolumeChanges	
<u>Sequence</u> abort Source -> Destination	Public <anonymous>	Public VolumeChanges	
<u>Sequence</u> ackSetVolumes(am_ Handle_s, std::vector<am_Volu mes_s>, am_Error_e) Source -> Destination	Public VolumeChanges	Public IAmRoutingReceiv e	
<u>Sequence</u> ackSetSinkVolumeCh ange(am_Handle_s, am_volume_t, am_Error_e) Source -> Destination	Public VolumeChanges	Public IAmRoutingReceiv e	
<u>Sequence</u> ackSetVolumes(am_ Handle_s, std::vector<am_Volu mes_s>, am_Error_e) Source -> Destination	Public VolumeChanges	Public IAmRoutingReceiv e	

feedback_receiveSinkVolumeTicks

Type: InteractionOccurrence
Status: Proposed. Version 1.0. Phase 1.0.

Package: actions_AsynchronousMultipleVolumeChange *Keywords:*
Detail: Created on 29.11.2012. Last modified on 29.11.2012.
GUID: {5C42C322-69B7-4ffa-8251-8ACDAB798567}

feedback_receiveSourceVolumeTicks

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsynchronousMultipleVolumeChange *Keywords:*
Detail: Created on 29.11.2012. Last modified on 29.11.2012.
GUID: {8D2E93AC-955D-44fa-88AD-D95154B3E713}

if sink volume is changed

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsynchronousMultipleVolumeChange *Keywords:*
Detail: Created on 29.11.2012. Last modified on 29.11.2012.
GUID: {E72BBAC8-BE25-4a7d-A036-7FC140ED71FC}

if source volume is changed

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsynchronousMultipleVolumeChange *Keywords:*
Detail: Created on 29.11.2012. Last modified on 29.11.2012.
GUID: {78981C5A-ED31-4c67-B085-3590E536EDBC}

volume change

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsynchronousMultipleVolumeChange *Keywords:*
Detail: Created on 29.11.2012. Last modified on 29.11.2012.
GUID: {414DEEF3-33BE-47a3-8A4C-A2528C1C500A}

volumeChanges

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AsynchronousMultipleVolumeChange *Keywords:*
Detail: Created on 29.11.2012. Last modified on 29.11.2012.
GUID: {65F405B8-CB95-42ae-86B4-9C1D520E9DAD}

actions_AsynchronousConnect

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Actions
Detail: Created on 23.08.2011. Last modified on 11.10.2011
GUID: {E42577B0-0D3E-4ed2-BD19-B999ADB77D6D}

This shows how a basic connect is done.

actions_AsynchronousConnect - (Interaction diagram)

Created By: christian on 23.08.2011
Last Modified: 20.10.2011
Version: 1.0. *Locked:* False
GUID: {5078CDC1-2236-45ca-A7A0-89A0BAF22541}

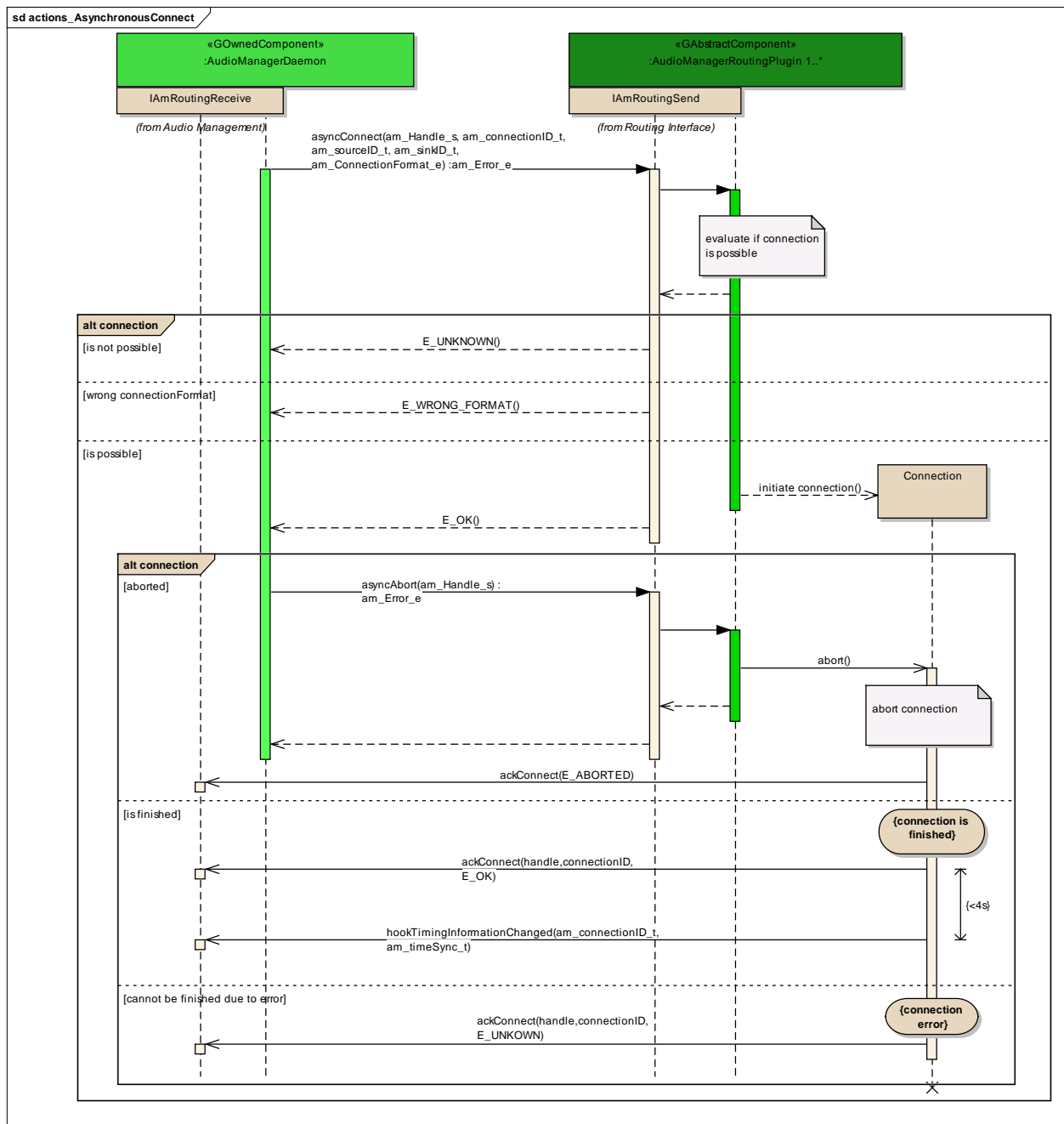


Figure: 22

Connection

Type:

Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: actions_AsyncronousConnect *Keywords:*

Detail: Created on 23.08.2011. Last modified on 23.08.2011.

GUID: {D61EC55F-06D7-4a77-97EF-8BB2DB3F93D0}

Connections

Connector	Source	Target	Notes
Sequence initiate connection Source -> Destination	Public <anonymous>	Public Connection	
Sequence abort Source -> Destination	Public <anonymous>	Public Connection	
Sequence ackConnect(am_Handle_s, am_connectionID_t, am_Error_e) Source -> Destination	Public Connection	Public IAmRoutingReceive	
Sequence ackConnect(am_Handle_s, am_connectionID_t, am_Error_e) Source -> Destination	Public Connection	Public IAmRoutingReceive	
Sequence hookTimingInformationChanged(am_connectionID_t, am_timeSync_t) Source -> Destination	Public Connection	Public IAmRoutingReceive	
Sequence ackConnect(am_Handle_s, am_connectionID_t, am_Error_e) Source -> Destination	Public Connection	Public IAmRoutingReceive	

connection

Type:

InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AynchronousConnect *Keywords:*
Detail: Created on 23.08.2011. Last modified on 23.08.2011.
GUID: {1FD6A82A-B9BD-41d4-8302-C1D34549B92E}

connection

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: actions_AynchronousConnect *Keywords:*
Detail: Created on 23.08.2011. Last modified on 23.08.2011.
GUID: {1C4140EF-4156-4d43-B9F0-FFB19B53A3A3}

9.3 Registration_&_Startup

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Routing Interface
Detail: Created on 09.09.2011. Last modified on 09.09.2011
GUID: {586BC938-53CA-42dd-9678-EC4DD79F95A1}

setup_RoutingInterfaceReady

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 12.10.2011. Last modified on 12.10.2011
GUID: {874C18D1-3D8A-4996-9642-06B0CFC3753E}

setup_RoutingInterfaceReady - (Interaction diagram)

Created By: christian on 12.10.2011
Last Modified: 12.10.2011

Version: 1.0. *Locked*: False
 GUID: {136091CE-3582-423b-AE8D-7D41D3367C2E}

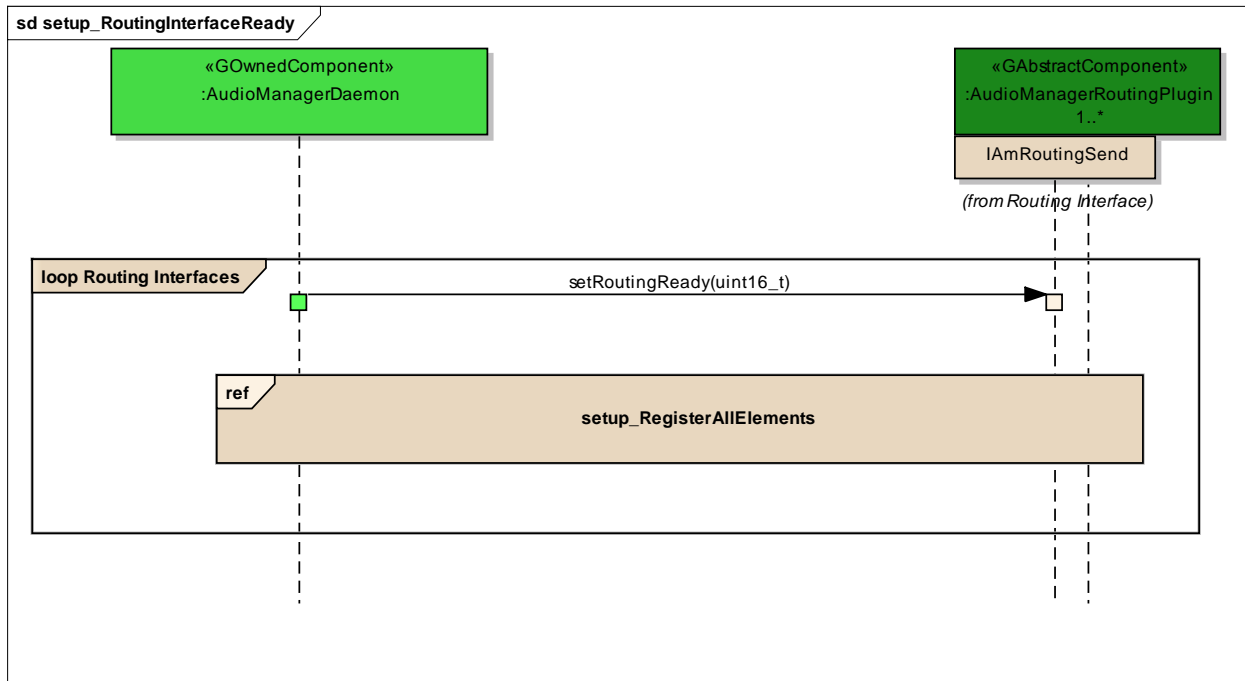


Figure: 23

Routing Interfaces

Type: InteractionFragment
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: setup_RoutingInterfaceReady *Keywords*:
 Detail: Created on 12.10.2011. Last modified on 12.10.2011.
 GUID: {7C1ABDF1-C6B1-4b83-B91F-B435510EB3F9}

setup_RegisterAllElements

Type: InteractionOccurrence
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: setup_RoutingInterfaceReady *Keywords*:
 Detail: Created on 12.10.2011. Last modified on 12.10.2011.
 GUID: {216EA9E7-8AB8-450a-BC3C-FFCFB53DD21B}

setup_DomainRegistration

Type: **Package**
 Status: Reworked. Version 1.0. Phase 1.0.
 Package: Registration_&_Startup
 Detail: Created on 19.08.2011. Last modified on 11.10.2011
 GUID: {51126B35-5A6C-4de6-AE01-BA66C5B264DE}

setup_DomainRegistration - (Interaction diagram)

Created By: christian on 19.08.2011
 Last Modified: 12.10.2011
 Version: 1.0. *Locked:* False
 GUID: {2D375EB3-3A69-4c23-A2FF-C0207895F05E}

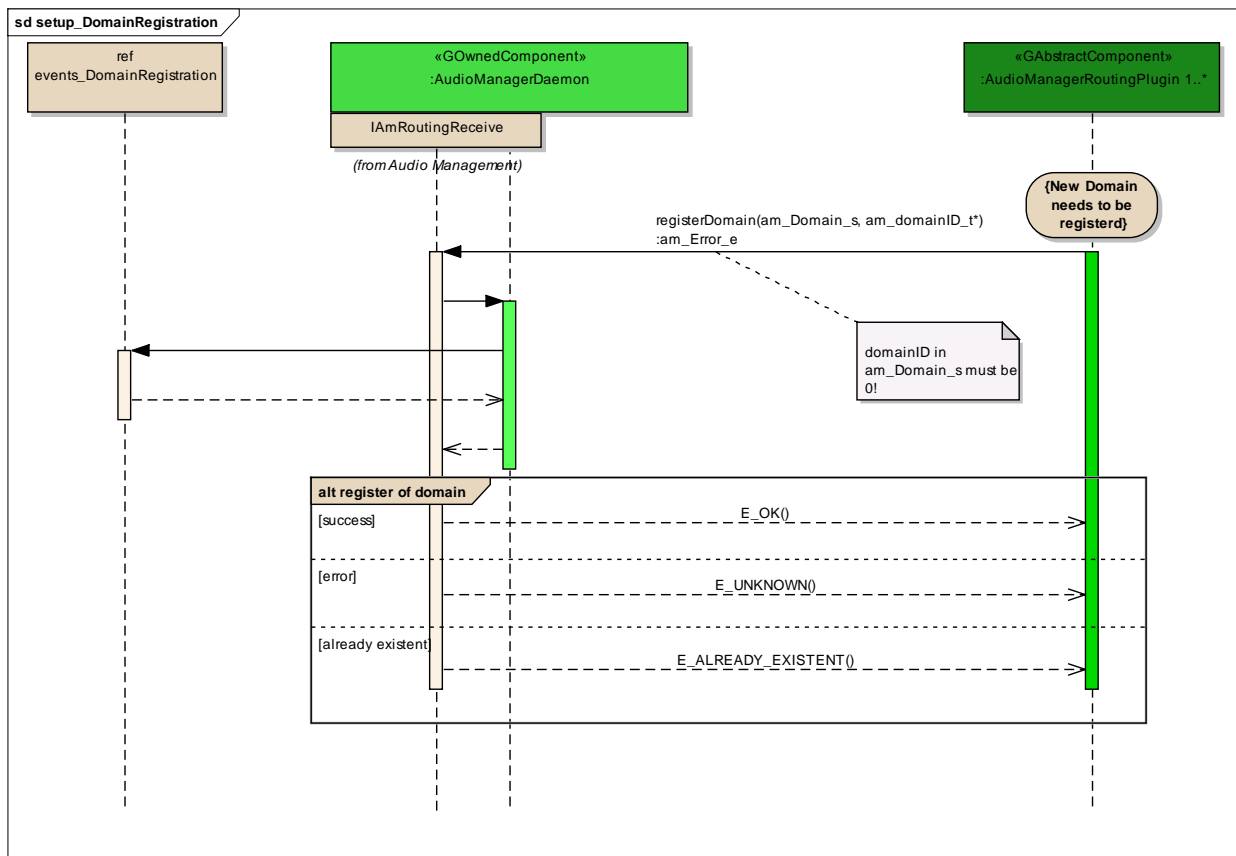


Figure: 24

events_DomainRegistration

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_DomainRegistration *Keywords:*
Detail: Created on 19.08.2011. Last modified on 11.10.2011.
GUID: {548A6CFB-3164-4783-B032-7E30EE430073}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public <anonymous>	Public events_DomainReg istration	
<u>Sequence</u> Source -> Destination	Public events_DomainReg istration	Public <anonymous>	

register of domain

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_DomainRegistration *Keywords:*
Detail: Created on 10.10.2011. Last modified on 10.10.2011.
GUID: {B7D8E277-B471-4a25-89F5-AC237DBDFFAF}

setup_SinkRegistration

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 16.08.2011. Last modified on 11.10.2011
GUID: {D3FE8D71-2C96-4c9e-9DA0-A6743A896886}

setup_SinkRegistration - (Interaction diagram)

Created By: christian on 16.08.2011
 Last Modified: 11.10.2011
 Version: 1.0. *Locked:* False
 GUID: {0154F8BD-0534-447c-9BEA-4FF27AF91DC6}

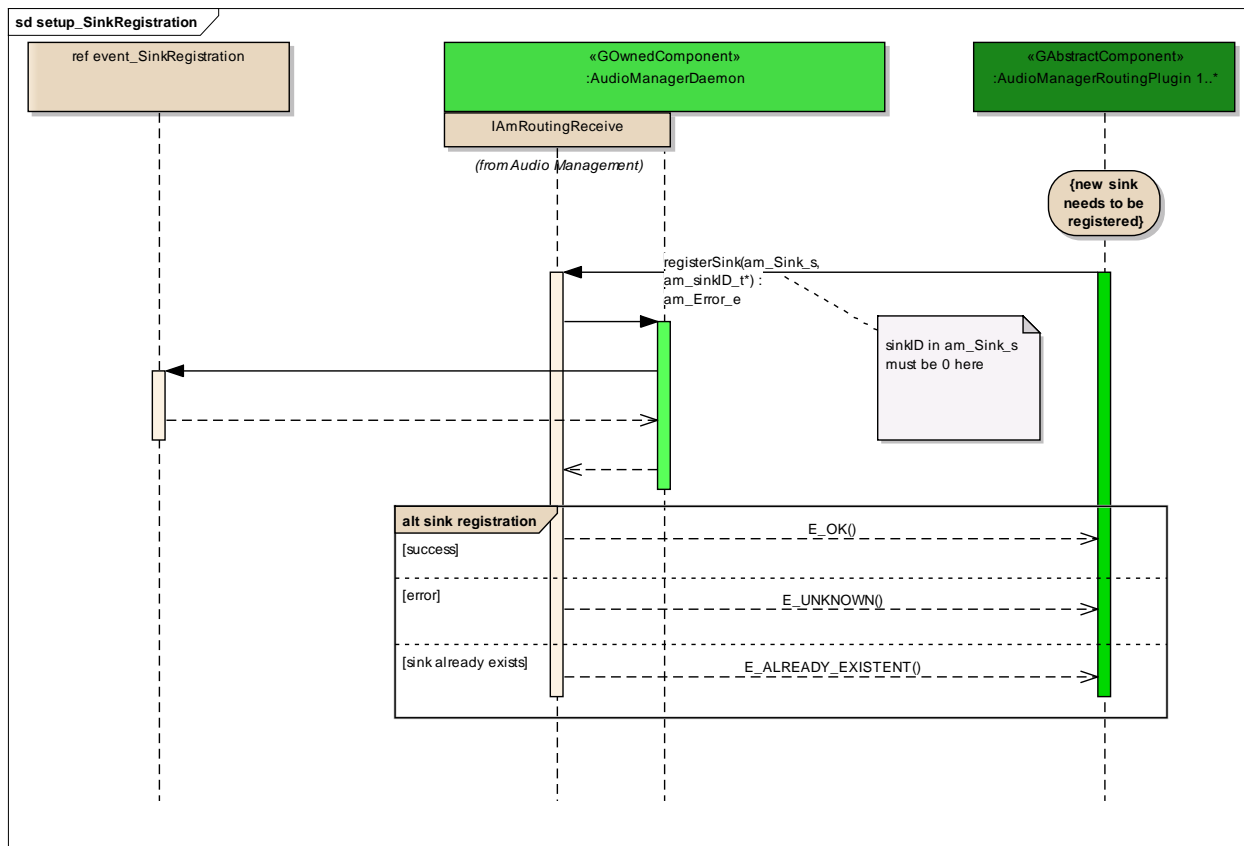


Figure: 25

event_SinkRegistration

Type: InteractionOccurrence
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: setup_SinkRegistration *Keywords:*
 Detail: Created on 22.08.2011. Last modified on 11.10.2011.
 GUID: {7CBBA4FA-C1A4-4513-853A-5A6699A5ACE5}

Connections

Connector	Source	Target	Notes
<u>Sequence</u>	Public	Public	

Connector	Source	Target	Notes
Source -> Destination	<anonymous>	event_SinkRegistration	
<u>Sequence</u> Source -> Destination	Public event_SinkRegistration	Public <anonymous>	

sink registration

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_SinkRegistration *Keywords:*
Detail: Created on 11.10.2011. Last modified on 11.10.2011.
GUID: {6627E680-A89A-4b9a-BDDF-7033BAE90CF5}

setup_SourceRegistration

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 16.08.2011. Last modified on 12.10.2011
GUID: {D6E750BE-5319-4fe8-9537-A7232A271897}

setup_SourceRegistration - (*Interaction diagram*)

Created By: christian on 16.08.2011
Last Modified: 11.10.2011
Version: 1.0. *Locked:* False
GUID: {A7D19339-EB38-4bc7-AD68-7709C5C4D075}

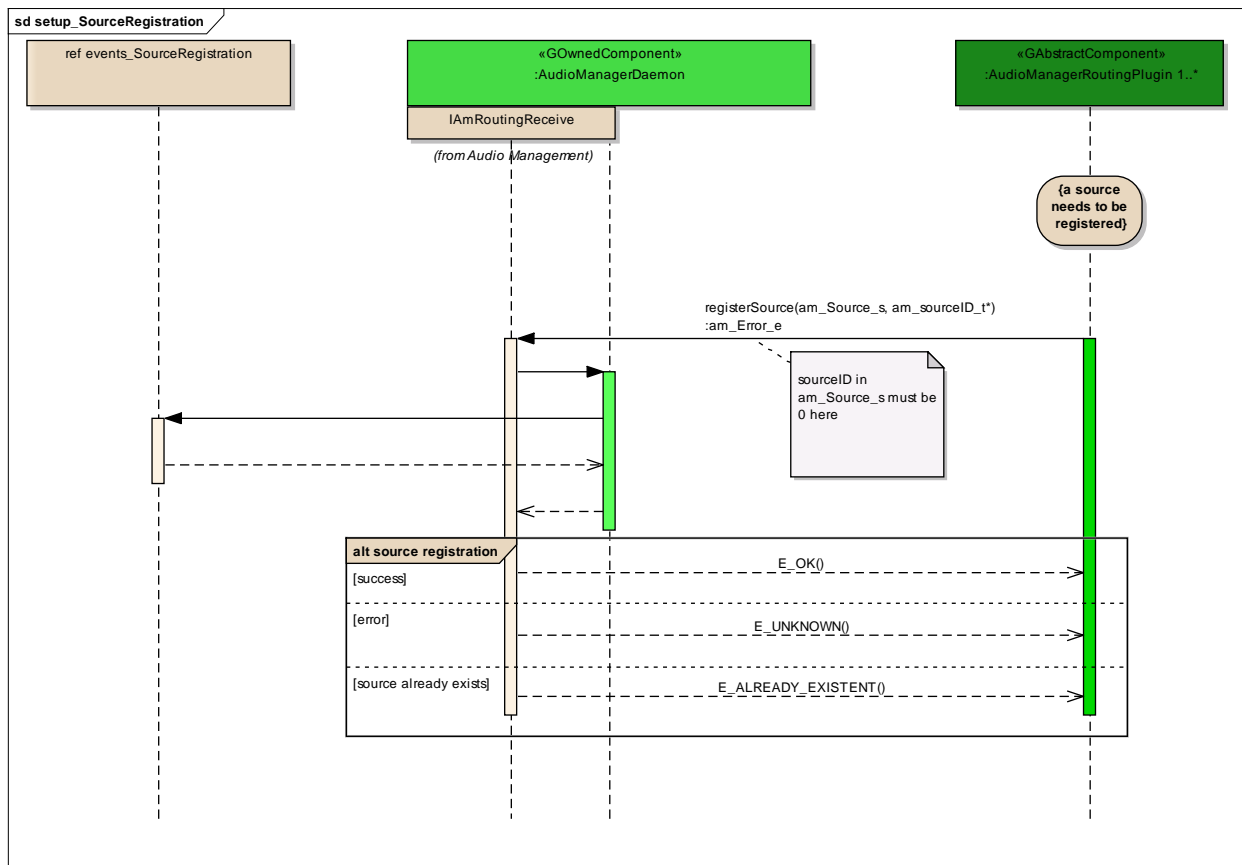


Figure: 26

events_SourceRegistration

Type: InteractionOccurrence
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_SourceRegistration *Keywords:*
Detail: Created on 22.08.2011. Last modified on 11.10.2011.
GUID: {E7793BB9-80EC-4488-8010-4B42D09D124C}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public <anonymous>	Public events_SourceRegis tration	
<u>Sequence</u> Source -> Destination	Public events_SourceRegis	Public <anonymous>	

Connector	Source	Target	Notes
	tration		

source registration

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_SourceRegistration *Keywords:*
Detail: Created on 11.10.2011. Last modified on 11.10.2011.
GUID: {4A1A1A91-B45C-4560-8BD5-48EC49752402}

setup_GatewayRegistration

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 22.08.2011. Last modified on 11.10.2011
GUID: {BD8E6683-2A9C-4c22-870F-3D0061C2D3C0}

setup_GatewayRegistration - (Interaction diagram)

Created By: christian on 22.08.2011
Last Modified: 17.10.2011
Version: 1.0. *Locked:* False
GUID: {E239BDA1-FAEE-4205-86CE-13D2E89A20AE}

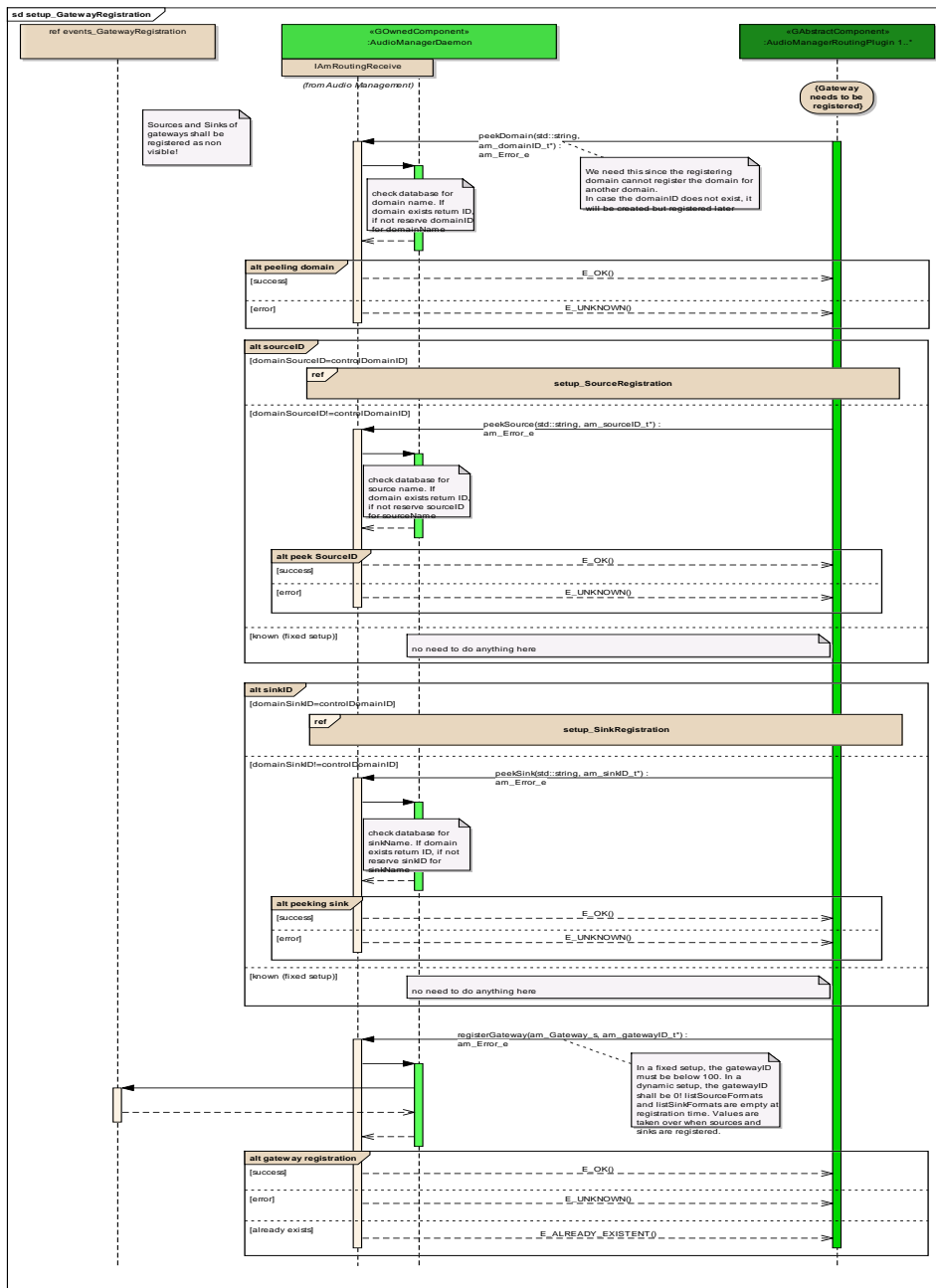


Figure: 27

events_GatewayRegistration

Type:

InteractionOccurrence

Status: Proposed. Version 1.0. Phase 1.0.

Package: setup_GatewayRegistration *Keywords:*

Detail: Created on 11.10.2011. Last modified on 11.10.2011.

GUID: {0D9C2658-8528-42f6-A7B6-11FFFA0537E8}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public <anonymous>	Public events_GatewayRegistration	
<u>Sequence</u> Source -> Destination	Public events_GatewayRegistration	Public <anonymous>	

gateway registration

Type: InteractionFragment
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_GatewayRegistration *Keywords:*
Detail: Created on 11.10.2011. Last modified on 11.10.2011.
GUID: {4D6F9ECA-815D-4838-A4A9-1C5E8EB8E529}

peek SourceID

Type: InteractionFragment
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_GatewayRegistration *Keywords:*
Detail: Created on 11.10.2011. Last modified on 11.10.2011.
GUID: {7547E7DF-A335-43e7-B7E6-061E9C35532F}

peeking sink

Type: InteractionFragment
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_GatewayRegistration *Keywords:*
Detail: Created on 11.10.2011. Last modified on 11.10.2011.

GUID: {E802C848-54A4-46c4-92E8-2EDD726BE21F}

peeling domain

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_GatewayRegistration *Keywords:*
Detail: Created on 11.10.2011. Last modified on 11.10.2011.
GUID: {1AC349BB-CDC3-435f-A9C9-0456A0307517}

setup_SinkRegistration

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_GatewayRegistration *Keywords:*
Detail: Created on 11.10.2011. Last modified on 11.10.2011.
GUID: {65B11D09-C285-4128-9118-1969924FE66E}

setup_SourceRegistration

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_GatewayRegistration *Keywords:*
Detail: Created on 22.08.2011. Last modified on 11.10.2011.
GUID: {E948E232-1172-4649-9BA8-C43B63AB11BE}

sinkID

Type: **InteractionFragment**

Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_GatewayRegistration *Keywords:*
Detail: Created on 11.10.2011. Last modified on 11.10.2011.
GUID: {0CA54F7A-1AEC-4e79-9C33-D6F6A20B856F}

sourceID

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_GatewayRegistration *Keywords:*
Detail: Created on 11.10.2011. Last modified on 11.10.2011.
GUID: {9AC29E17-1F34-4d07-A2DF-C22D7A922A79}

setup_CrossfaderRegistration

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 12.10.2011. Last modified on 12.10.2011
GUID: {053A9762-8B04-49fd-B7F2-DFB89A72EFDB}

setup_CrossfaderRegistration - (Interaction diagram)

Created By: christian on 12.10.2011
Last Modified: 12.10.2011
Version: 1.0. *Locked:* False
GUID: {4B3931AF-6D14-44b5-A7EA-D9D4C86B4C4D}

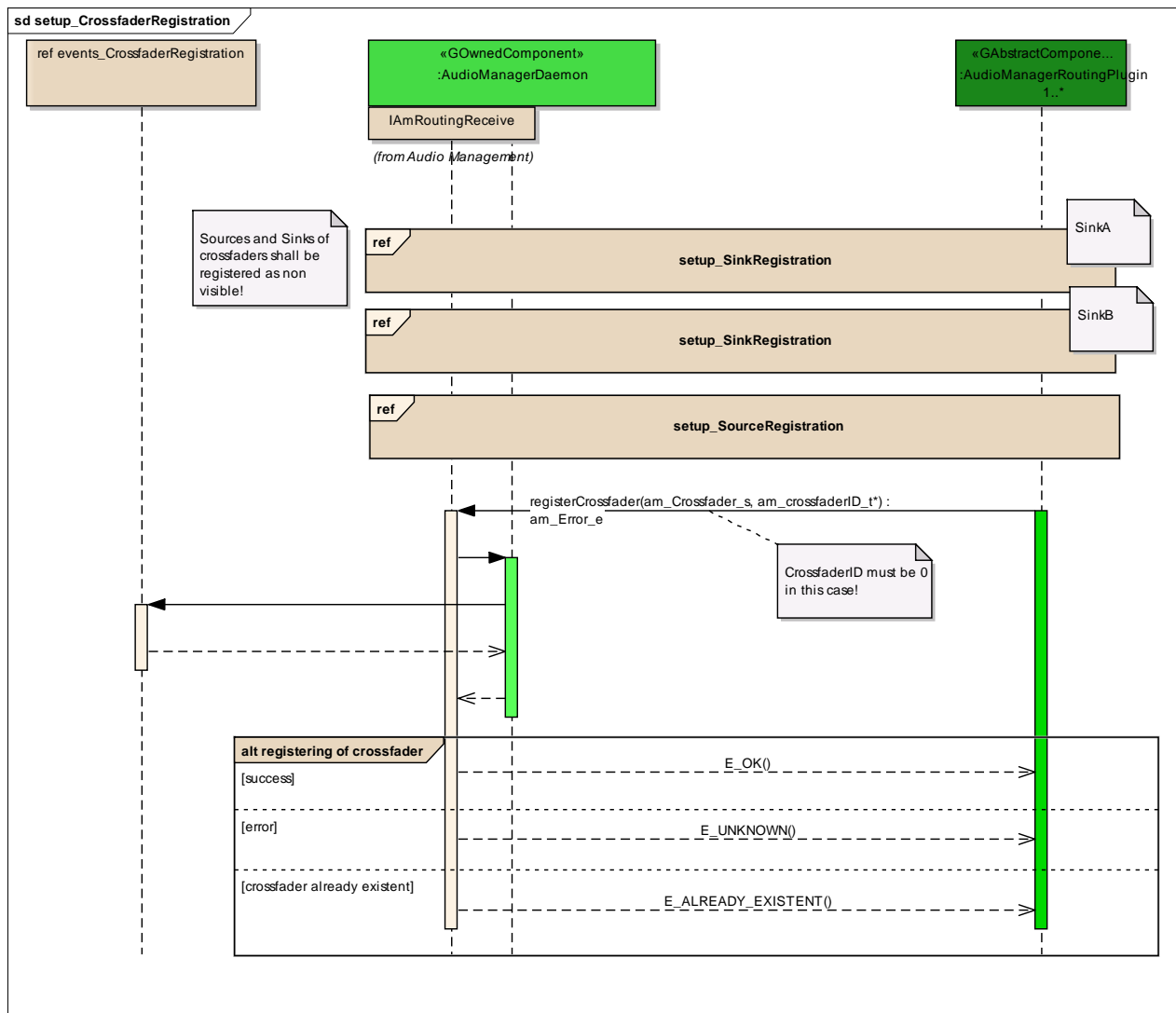


Figure: 28

events_CrossfaderRegistration

Type: **InteractionOccurrence**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: setup_CrossfaderRegistration *Keywords:*
 Detail: Created on 12.10.2011. Last modified on 12.10.2011.
 GUID: {1AE8AA6A-13A1-469e-8A60-BEA4FD9DD5BE}

Connections

Connector	Source	Target	Notes
-----------	--------	--------	-------

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public <anonymous>	Public events_CrossfaderR egistration	
<u>Sequence</u> Source -> Destination	Public events_CrossfaderR egistration	Public <anonymous>	

registering of crossfader

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_CrossfaderRegistration *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {57C5FEC1-0695-44ce-A653-D963DB9B875B}

setup_SinkRegistration

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_CrossfaderRegistration *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {CB1AC725-AA47-4685-816B-3D84BB7BB9EE}

setup_SinkRegistration

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_CrossfaderRegistration *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {7E7FB1C7-B0E5-4ab1-893D-431E6C31F0AF}

setup_SourceRegistration

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_CrossfaderRegistration *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {15FC4145-FDAC-43cb-A877-534DDA92ADC2}

setup_SinkDeregistration

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 14.09.2011. Last modified on 12.10.2011
GUID: {B4A95A4A-897B-4dc8-BC72-E007D1CE1726}

setup_SinkDeregistration - (Interaction diagram)

Created By: christian on 14.09.2011
Last Modified: 11.10.2011
Version: 1.0. *Locked:* False
GUID: {42532F75-3310-47fb-91AF-A819CEC4246D}

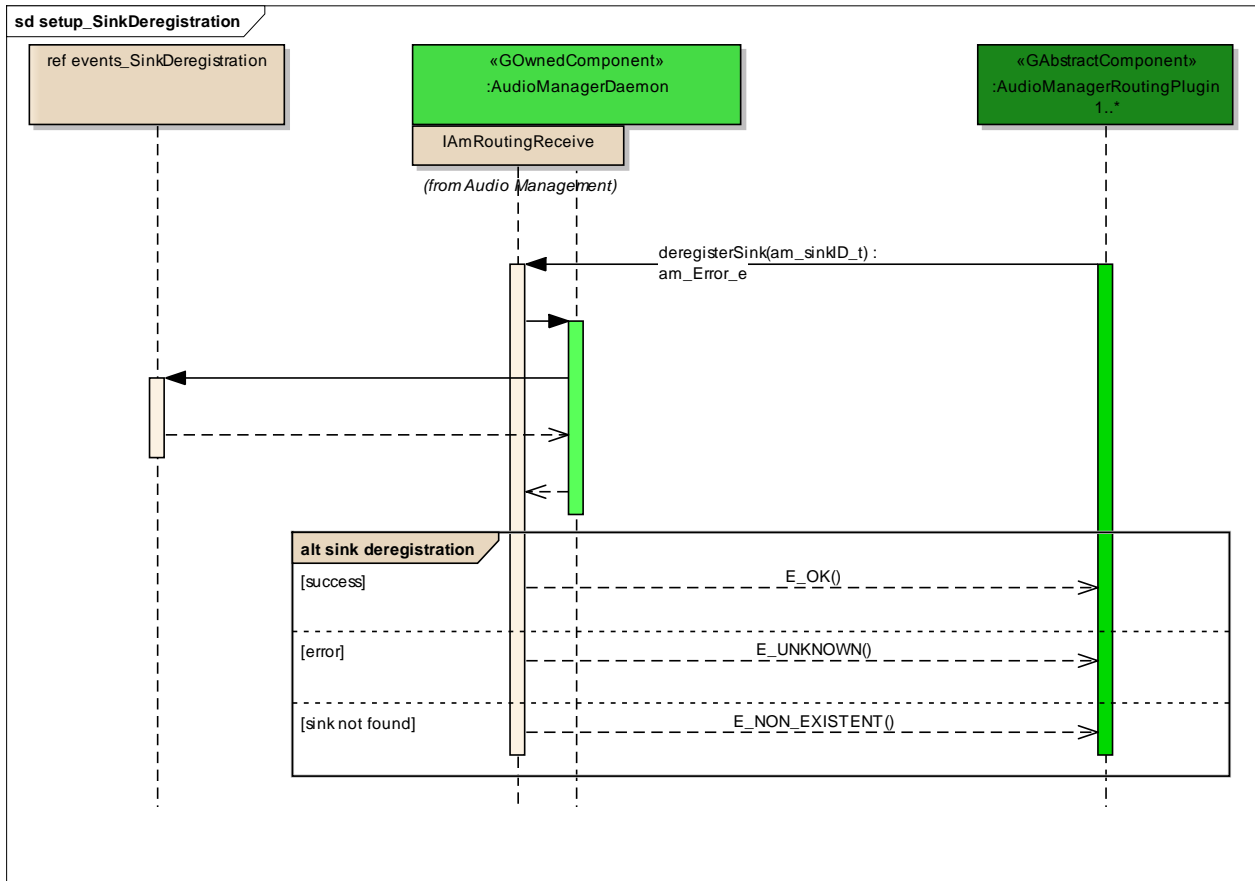


Figure: 29

events_SinkDeregistration

Type: **InteractionOccurrence**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: setup_SinkDeregistration *Keywords:*
 Detail: Created on 14.09.2011. Last modified on 11.10.2011.
 GUID: {802398C0-6B77-4cc4-A156-50AB5D7F539C}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public <anonymous>	Public events_SinkDeregistration	
<u>Sequence</u>	Public	Public	

Connector	Source	Target	Notes
Source -> Destination	events_SinkDeregistration	<anonymous>	

sink deregistration

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_SinkDeregistration *Keywords:*
Detail: Created on 11.10.2011. Last modified on 11.10.2011.
GUID: {5DE8ED12-5E3A-4d76-8BCE-39BBB8A494F4}

setup_SourceDeregistration

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 13.09.2011. Last modified on 11.10.2011
GUID: {0921AD1E-DECD-406c-B56E-9E8D0BAE49C1}

setup_SourceDeregistration - (*Interaction diagram*)

Created By: christian on 13.09.2011
Last Modified: 11.10.2011
Version: 1.0. *Locked:* False
GUID: {76846636-007D-4b73-BD36-3721EF905101}

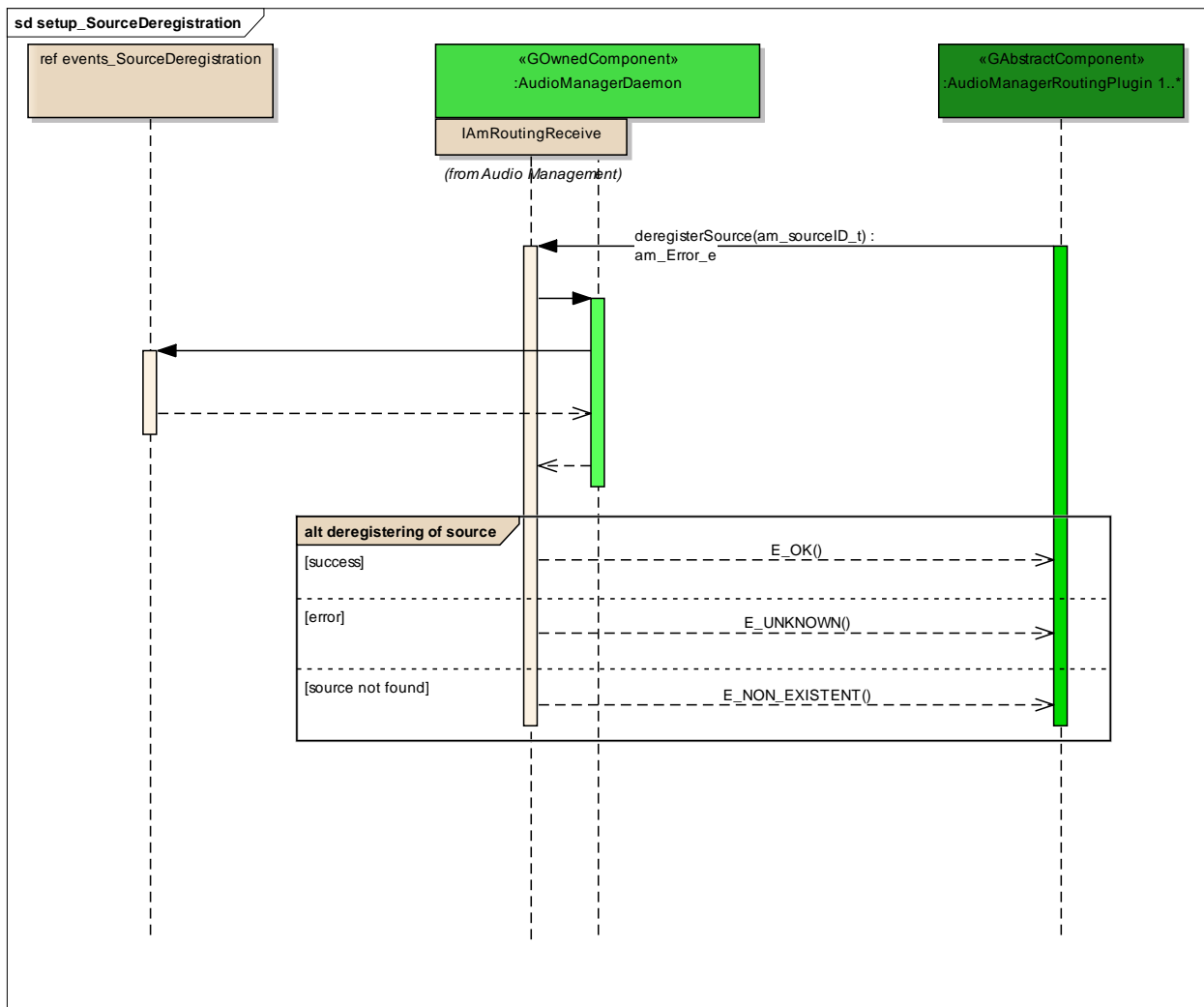


Figure: 30

deregistering of source

Type: **InteractionFragment**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: setup_SourceDeregistration *Keywords:*
 Detail: Created on 11.10.2011. Last modified on 11.10.2011.
 GUID: {015925B5-AAD2-4098-BAC3-45AE13CDD714}

events_SourceDeregistration

Type: **InteractionOccurrence**

Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_SourceDeregistration *Keywords:*
Detail: Created on 13.09.2011. Last modified on 11.10.2011.
GUID: {1E6E066D-7B87-48aa-9385-B6071BC59981}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public <anonymous>	Public events_SourceDere gistration	
<u>Sequence</u> Source -> Destination	Public events_SourceDere gistration	Public <anonymous>	

setup_DomainDeregistration

Type: Package
Status: Reworked. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 13.09.2011. Last modified on 11.10.2011
GUID: {7C769566-8B21-47f1-BA8D-E30A5124FB98}

setup_DomainDeregistration - (Interaction diagram)

Created By: christian on 13.09.2011
Last Modified: 11.10.2011
Version: 1.0. *Locked:* False
GUID: {04A3FA77-76A1-43a2-8733-E51BE756E89B}

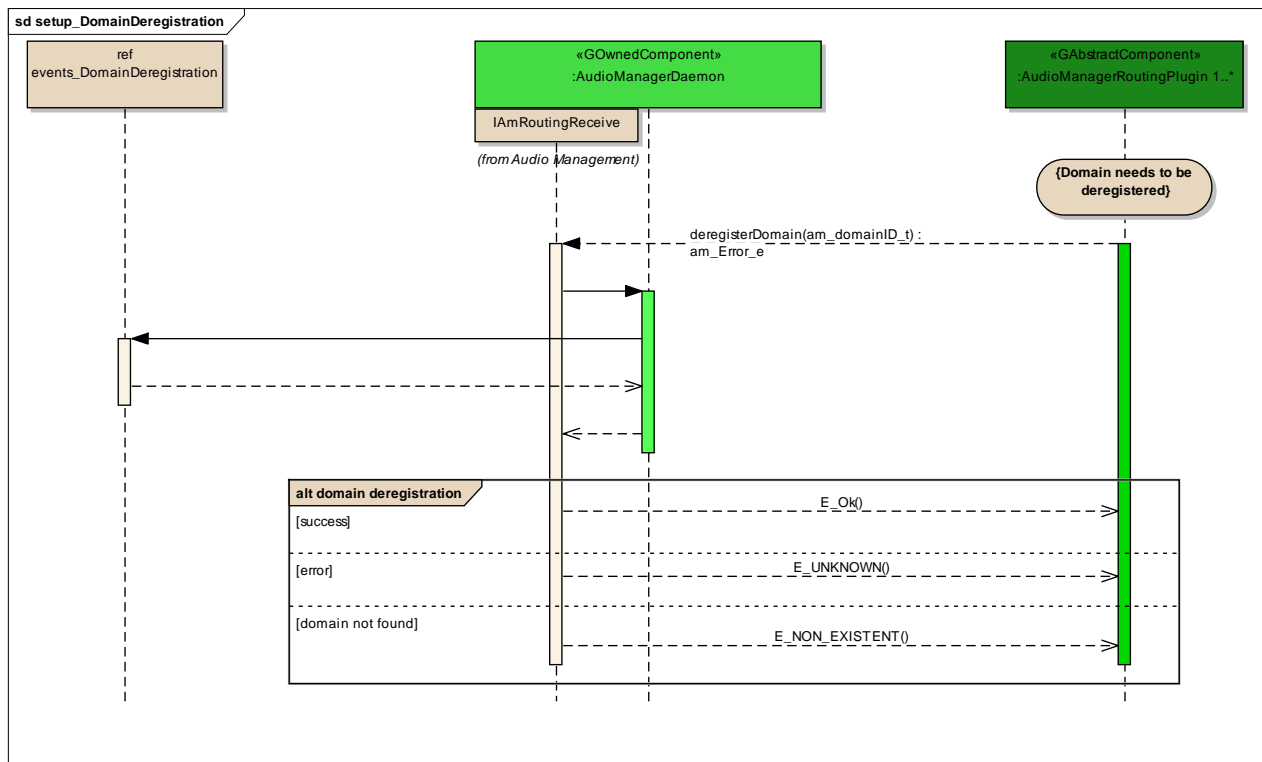


Figure: 31

domain deregistration

Type: InteractionFragment
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: setup_DomainDeregistration *Keywords:*
 Detail: Created on 11.10.2011. Last modified on 11.10.2011.
 GUID: {21E2281B-BC5D-495d-9A38-24A4257228D2}

events_DomainDeregistration

Type: InteractionOccurrence
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: setup_DomainDeregistration *Keywords:*
 Detail: Created on 13.09.2011. Last modified on 11.10.2011.
 GUID: {039F4D65-4D0C-4da4-B3CD-3C99A68BAD7D}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public <anonymous>	Public events_DomainDer egistration	
<u>Sequence</u> Source -> Destination	Public events_DomainDer egistration	Public <anonymous>	

setup_GatewayDeregistration

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 13.09.2011. Last modified on 11.10.2011
GUID: {938860D0-E5D2-4928-8D52-C46F9F7BEAB5}

setup_GatewayDeregistration - (Interaction diagram)

Created By: christian on 13.09.2011
Last Modified: 12.10.2011
Version: 1.0. *Locked:* False
GUID: {7B4E60BD-B3EA-4713-B932-4E0579D7616D}

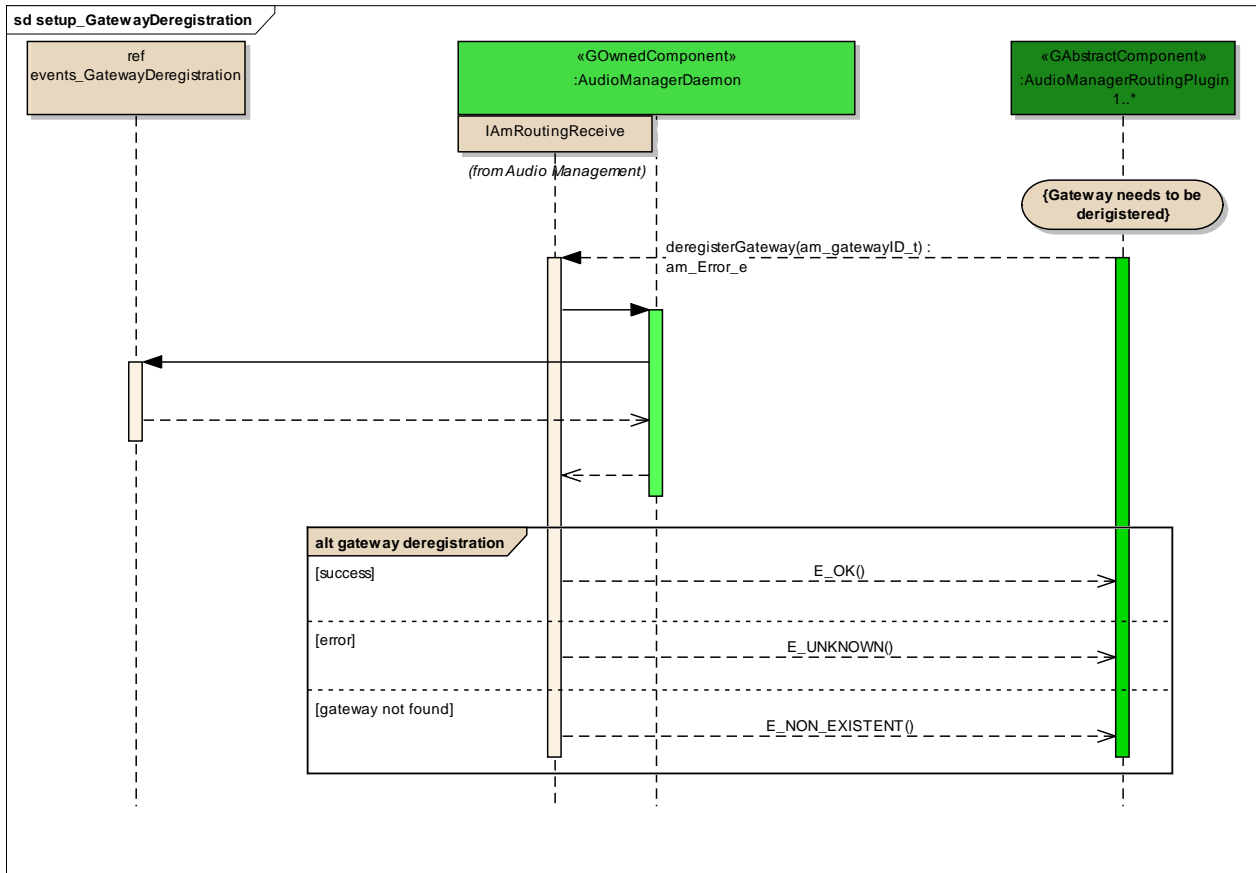


Figure: 32

events_GatewayDeregistration

Type: **InteractionOccurrence**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: setup_GatewayDeregistration *Keywords:*
 Detail: Created on 13.09.2011. Last modified on 11.10.2011.
 GUID: {9EFD6E6C-0E7B-406f-80CA-6DFF95837871}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public <anonymous>	Public events_GatewayDeregistration	
<u>Sequence</u>	Public	Public	

Connector	Source	Target	Notes
Source -> Destination	events_GatewayDeregistration	<anonymous>	

gateway deregistration

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_GatewayDeregistration *Keywords:*
Detail: Created on 11.10.2011. Last modified on 11.10.2011.
GUID: {DFE8CF8A-FF6A-4914-A81C-C7F90100C3F5}

setup_Crossfader_Deregistration

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 12.10.2011. Last modified on 12.10.2011
GUID: {09B1E6D6-C329-4c57-9303-1E6C44325527}

setup_Crossfader_Deregistration - (Interaction diagram)

Created By: christian on 12.10.2011
Last Modified: 12.10.2011
Version: 1.0. *Locked:* False
GUID: {AF4C761A-5473-40bd-A0E9-F16E9683A9F3}

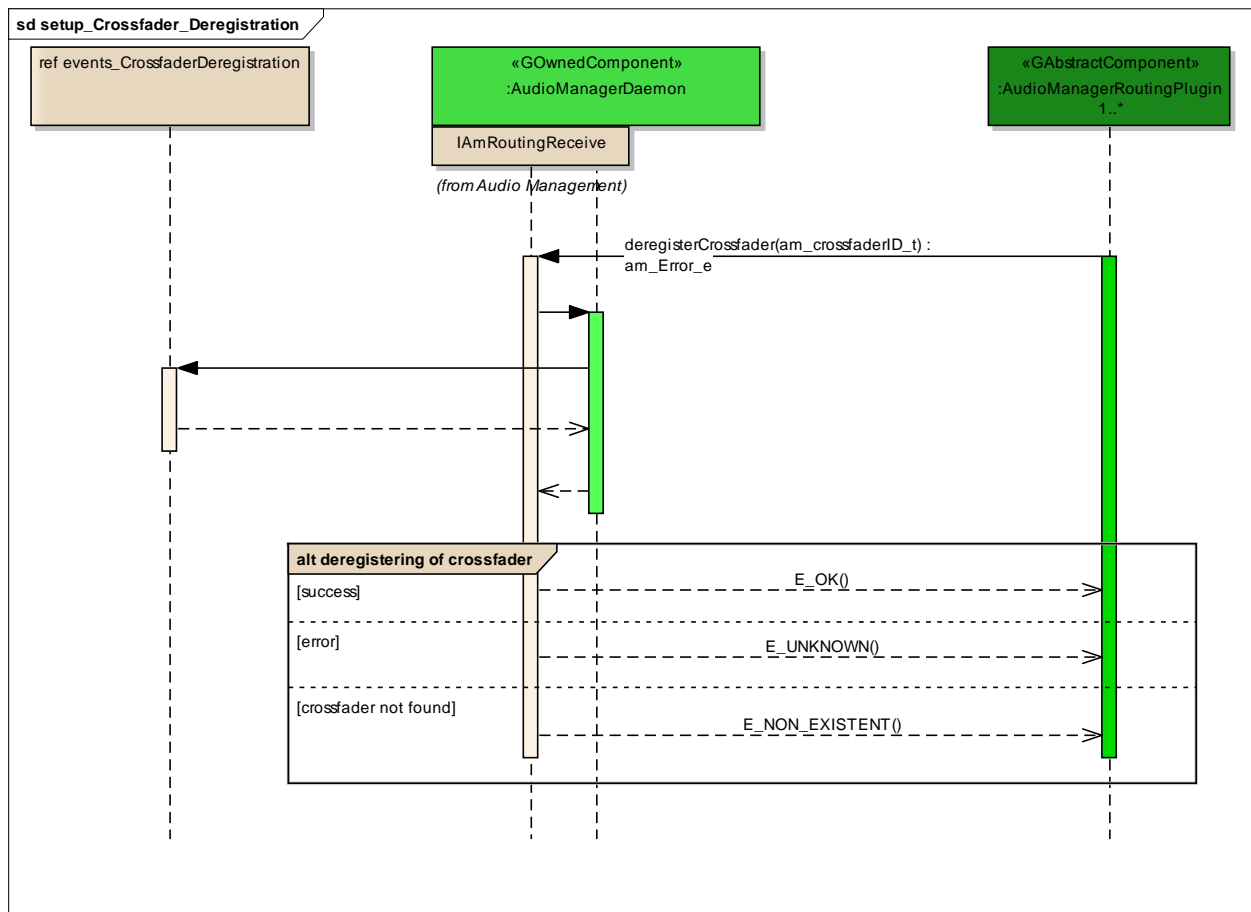


Figure: 33

deregistering of crossfader

Type: **InteractionFragment**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: setup_Crossfader_Deregistration *Keywords:*
 Detail: Created on 12.10.2011. Last modified on 12.10.2011.
 GUID: {4362610A-6FD6-4390-A9E8-442CE16A2B39}

events_CrossfaderDeregistration

Type: **InteractionOccurrence**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: setup_Crossfader_Deregistration *Keywords:*
 Detail: Created on 12.10.2011. Last modified on 12.10.2011.

GUID: {849AA62B-2070-435f-B5FD-031A399706B7}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public <anonymous>	Public events_CrossfaderD eregistration	
<u>Sequence</u> Source -> Destination	Public events_CrossfaderD eregistration	Public <anonymous>	

setup_LoadPlugins

Type: Package
Status: Reworked. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 23.08.2011. Last modified on 11.10.2011
GUID: {5D6BE2BB-0A84-4319-948B-4FE4F9F907D3}

setup_LoadPlugins - (Interaction diagram)

Created By: christian on 23.08.2011
Last Modified: 12.10.2011
Version: 1.0. *Locked*: False
GUID: {5D080FFE-A3FC-4fef-B55B-FB4BEB419563}

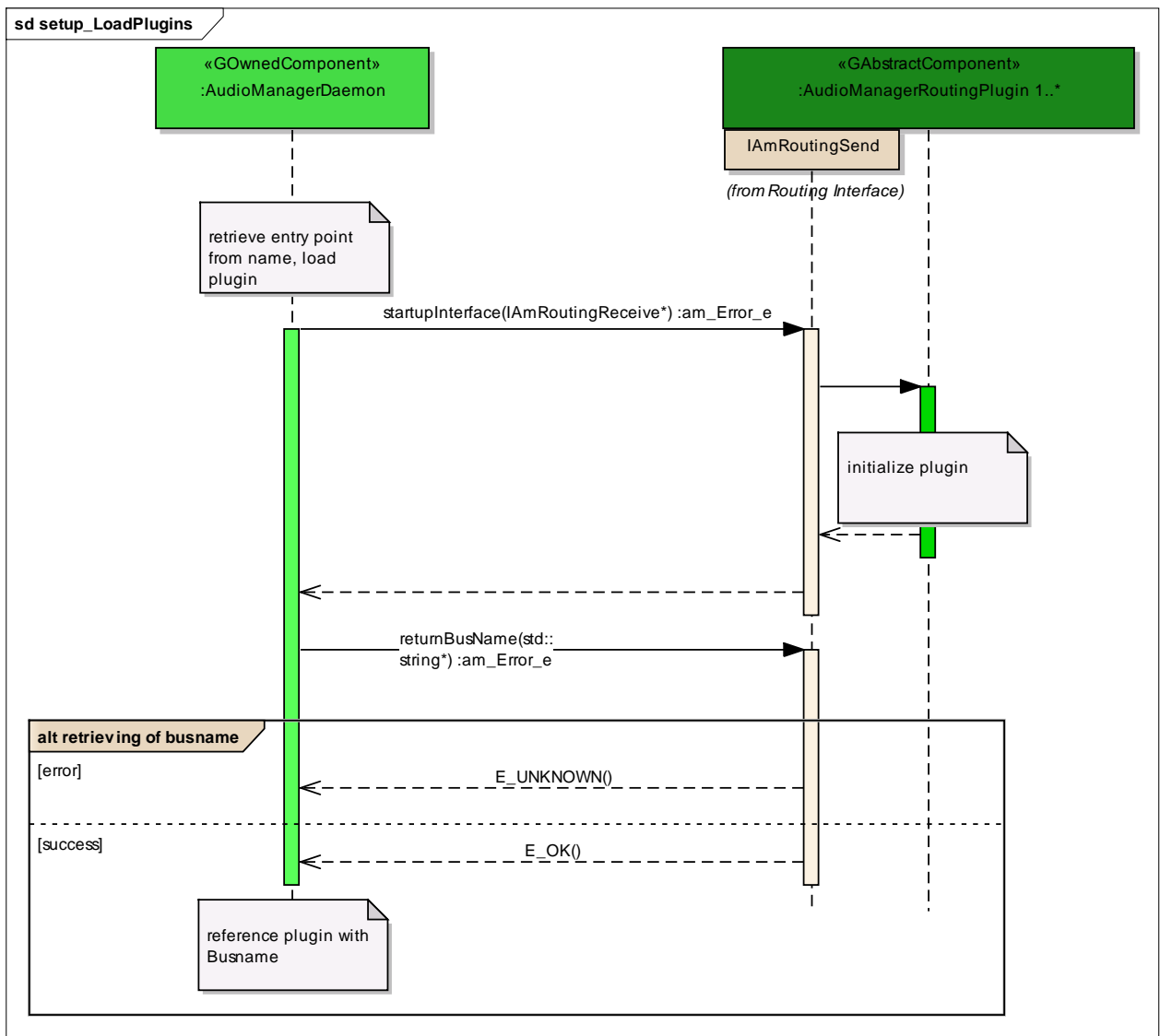


Figure: 34

retrieving of busname

Type:

InteractionFragment

Status:

Proposed. Version 1.0. Phase 1.0.

Package:

setup_LoadPlugins *Keywords:*

Detail:

Created on 11.10.2011. Last modified on 11.10.2011.

GUID:

{508E0140-73EB-4a26-9D42-C821B6CC4E28}

setup_RegisterAllElements

Type: **Package**
Status: Reworked. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 23.08.2011. Last modified on 11.10.2011
GUID: {40E8D4FF-0063-49bd-A9CF-D7BA4C97BF3C}

setup_RegisterAllElements - (Interaction diagram)

Created By: christian on 23.08.2011
Last Modified: 14.02.2012
Version: 1.0. *Locked:* False
GUID: {076D5409-ECF1-4272-B619-2453773AE772}

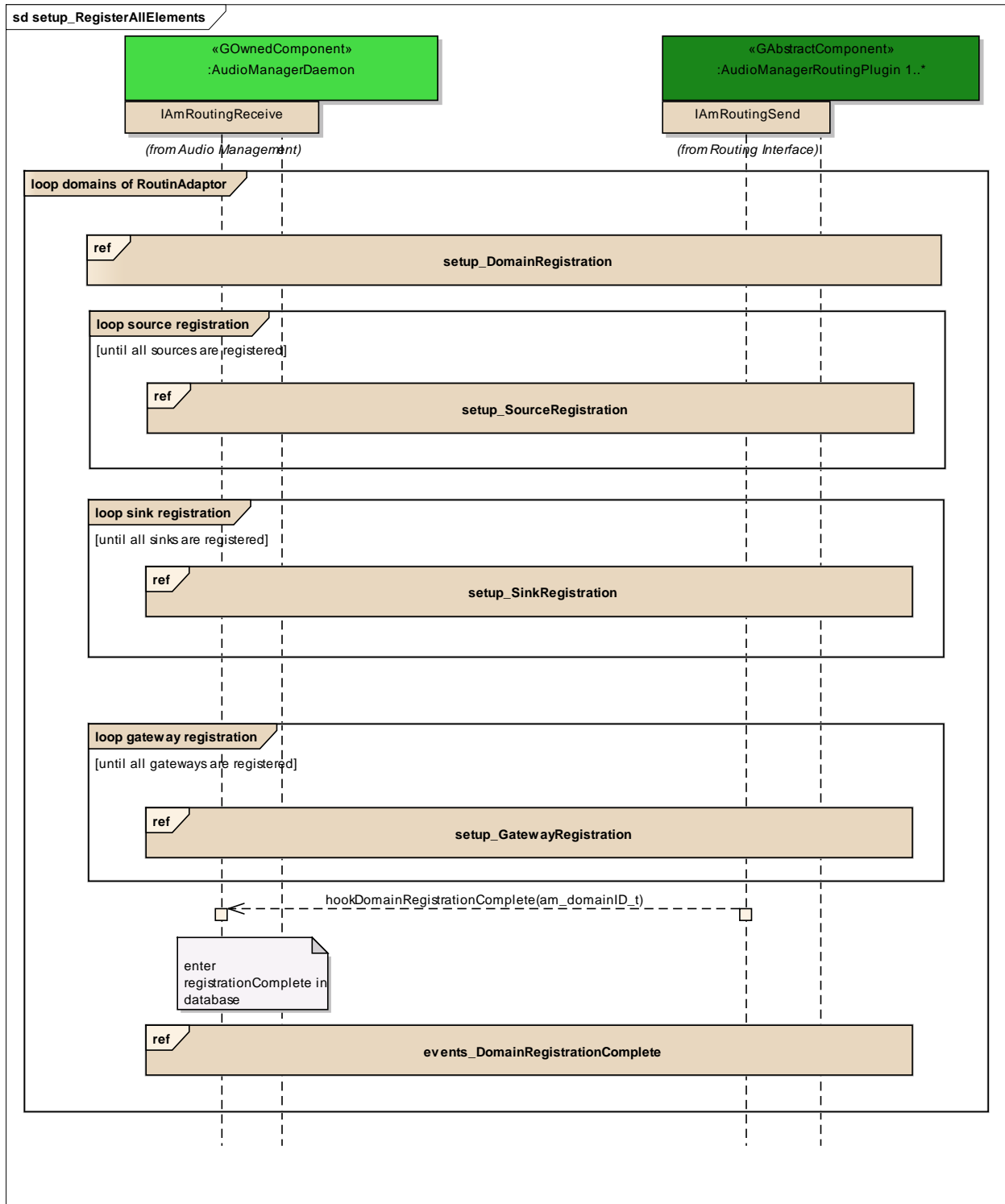


Figure: 35

domains of RoutinAdaptor

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_RegisterAllElements *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {5337587D-856E-43c9-A6BD-8096D1ABC50B}

events_DomainRegistrationComplete

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_RegisterAllElements *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {4B3B5AEF-4EDF-49e5-B8AC-EBF53327624B}

gateway registration

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_RegisterAllElements *Keywords:*
Detail: Created on 23.08.2011. Last modified on 11.10.2011.
GUID: {EC7B06E5-BBD4-42be-B8B6-3656C5860E5D}

setup_DomainRegistration

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_RegisterAllElements *Keywords:*
Detail: Created on 23.08.2011. Last modified on 11.10.2011.
GUID: {64FACD46-446E-421a-8B40-0AAF930FB5ED}

setup_GatewayRegistration

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_RegisterAllElements *Keywords:*
Detail: Created on 23.08.2011. Last modified on 11.10.2011.
GUID: {8E8D8339-FAB4-4227-A695-26FC3A4E19B9}

setup_SinkRegistration

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_RegisterAllElements *Keywords:*
Detail: Created on 23.08.2011. Last modified on 11.10.2011.
GUID: {A2742F69-75B3-4ce3-BE18-18EDDF1F5288}

setup_SourceRegistration

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_RegisterAllElements *Keywords:*
Detail: Created on 23.08.2011. Last modified on 14.02.2012.
GUID: {AE31C658-E69E-499a-861E-060B26922353}

sink registration

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_RegisterAllElements *Keywords:*
Detail: Created on 23.08.2011. Last modified on 23.08.2011.
GUID: {F093ED4B-09C1-4bef-823C-316E9C6113D3}

source registration

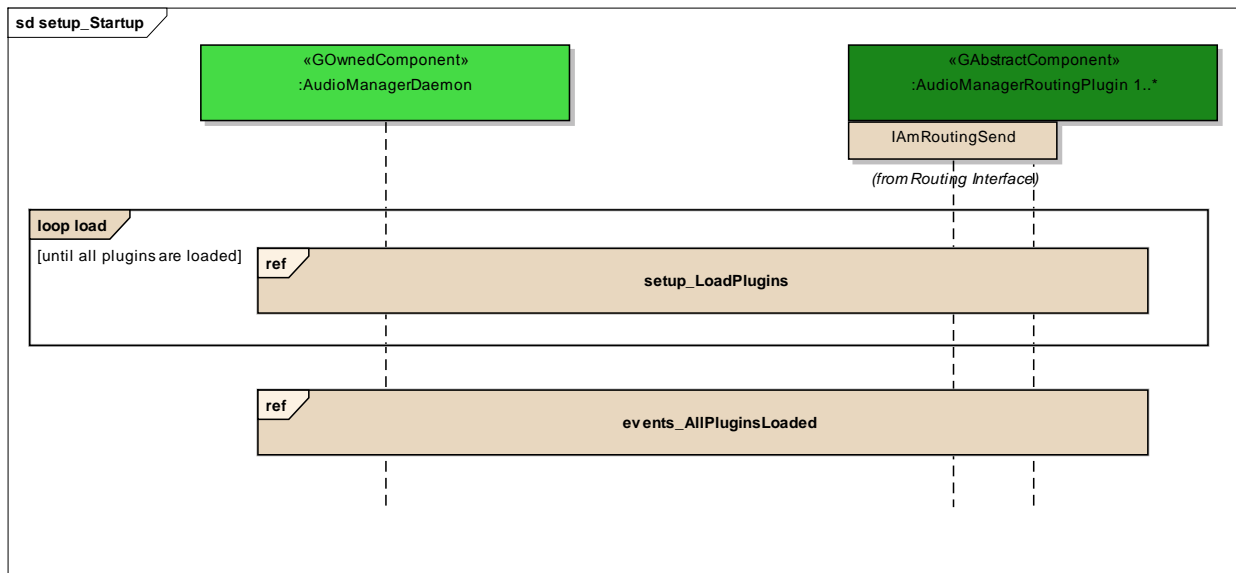
Type: InteractionFragment
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_RegisterAllElements *Keywords:*
Detail: Created on 23.08.2011. Last modified on 23.08.2011.
GUID: {7416017D-0818-4359-BE8F-A735D2AAA792}

setup_Startup

Type: Package
Status: Reworked. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 16.08.2011. Last modified on 11.10.2011
GUID: {9452C519-00CE-47d5-9293-6B84B57C3FBA}

setup_Startup - (Interaction diagram)

Created By: christian on 23.08.2011
Last Modified: 07.03.2012
Version: 1.0. **Locked:** False
GUID: {04744B52-4E87-40c3-9F46-F40E15A58FF9}



events_AllPluginsLoaded

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_Startup *Keywords:*
Detail: Created on 12.10.2011. Last modified on 12.10.2011.
GUID: {1B3B3592-7F90-4e11-8D02-B8F56DE3417A}

load

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_Startup *Keywords:*
Detail: Created on 23.08.2011. Last modified on 23.08.2011.
GUID: {2FBC20D4-3979-4628-B57A-7716D9CE0B54}

setup_LoadPlugins

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_Startup *Keywords:*
Detail: Created on 23.08.2011. Last modified on 11.10.2011.
GUID: {9ABBCD5F-D966-4b9d-8D3E-220EC1523275}

Constraints

- r_: (Invariant, Status is Approved)

setup_UpdateSourceData

Type: **Package**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: Registration_&_Startup
 Detail: Created on 28.06.2012. Last modified on 28.06.2012
 GUID: {576BF82B-30F4-4bb1-9888-467548CBF2FF}

setup_UpdateSourceData - (Interaction diagram)

Created By: q232968 on 28.06.2012
 Last Modified: 27.11.2012
 Version: 1.0. Locked: False
 GUID: {DBE9D087-3356-4ad5-9CD4-F279D4A9BBF0}

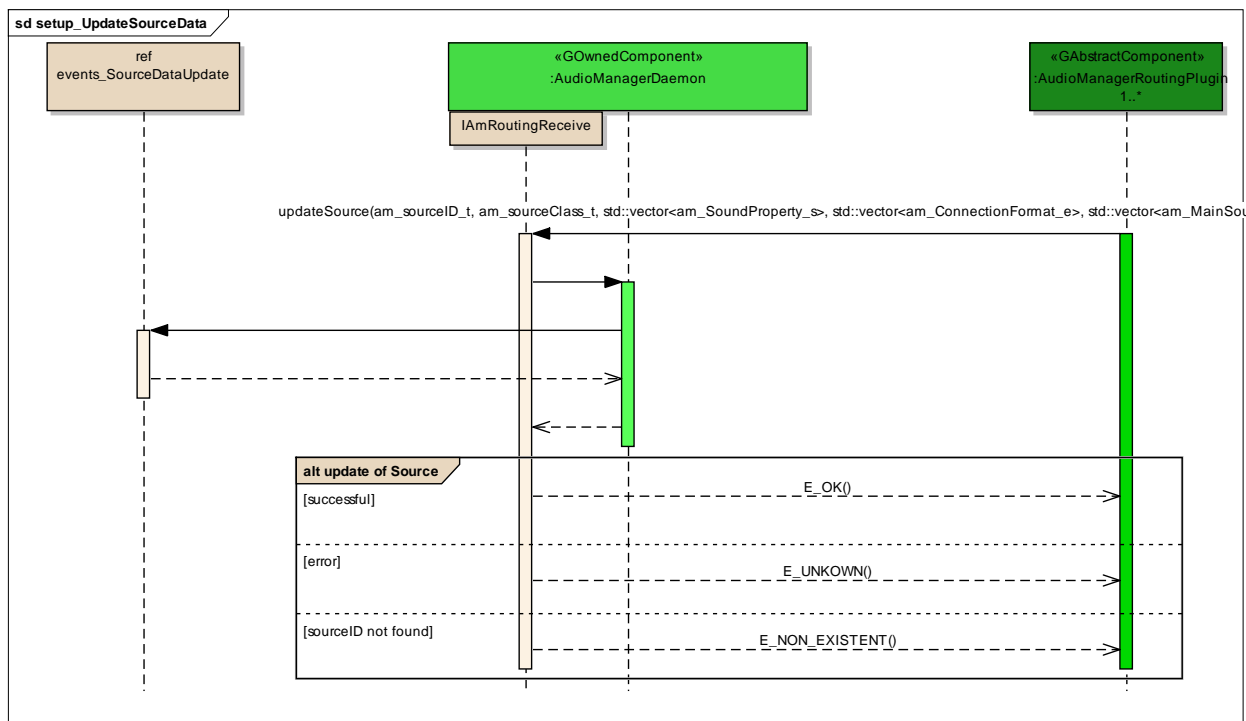


Figure: 37

events_SourceDataUpdate

Type: **InteractionOccurrence**
 Status: Proposed. Version 1.0. Phase 1.0.
 Package: setup_UpdateSourceData *Keywords:*
 Detail: Created on 28.06.2012. Last modified on 28.06.2012.
 GUID: {A65CD954-9FBF-4769-B2F6-AEFBC0F7B0AC}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public <anonymous>	Public events_SourceData Update	
<u>Sequence</u> Source -> Destination	Public events_SourceData Update	Public <anonymous>	

events_SourceDataUpdate

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_UpdateSourceData *Keywords:*
Detail: Created on 28.06.2012. Last modified on 28.06.2012.
GUID: {48D50C04-AE12-4b82-ACE2-03EADC7B1CEF}

update of Source

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_UpdateSourceData *Keywords:*
Detail: Created on 28.06.2012. Last modified on 28.06.2012.
GUID: {529500F7-9686-4dee-9942-77CB5186F5F4}

setup_UpdateSink

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 29.06.2012. Last modified on 29.06.2012

GUID: {9B67B60E-2CD3-475d-8ADF-3F9CFDC380CF}

setup_UpdateSink - (Interaction diagram)

Created By: q232968 on 29.06.2012

Last Modified: 27.11.2012

Version: 1.0. Locked: False

GUID: {29A3AA59-B4B5-4c4e-B6E6-EA8476645A8D}

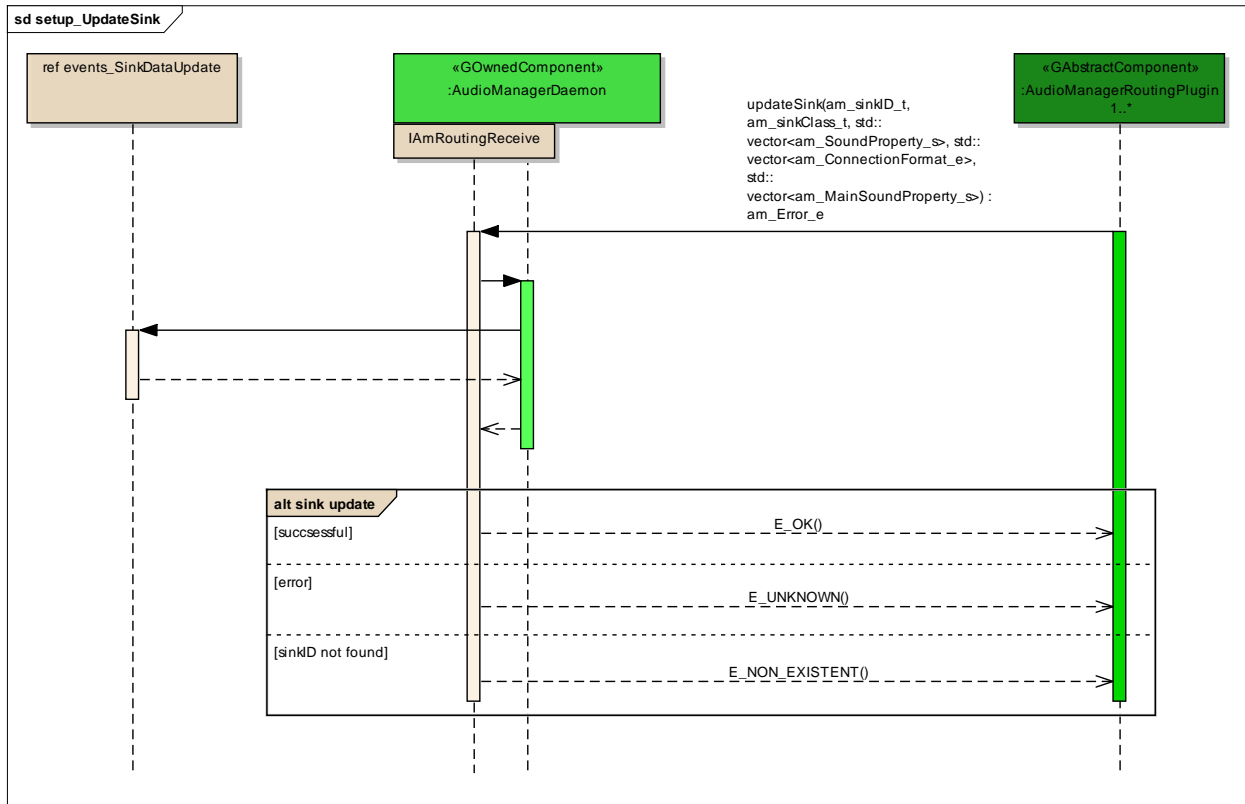


Figure: 38

events_SinkDataUpdate

Type: InteractionOccurrence

Status: Proposed. Version 1.0. Phase 1.0.

Package: setup_UpdateSink *Keywords:*

Detail: Created on 29.06.2012. Last modified on 29.06.2012.

GUID: {A245486C-2E82-48de-95A7-91725F2A7D58}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public <anonymous>	Public events_SinkDataUp date	
<u>Sequence</u> Source -> Destination	Public events_SinkDataUp date	Public <anonymous>	

sink update

Type: InteractionFragment
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_UpdateSink *Keywords:*
Detail: Created on 29.06.2012. Last modified on 29.06.2012.
GUID: {42212245-CDE0-4bb4-89CD-C1C9F4DAD6E8}

setup_UpdateGateway

Type: Package
Status: Proposed. Version 1.0. Phase 1.0.
Package: Registration_&_Startup
Detail: Created on 29.06.2012. Last modified on 29.06.2012
GUID: {953D6E87-B1B1-4011-B983-58E0AD20C41A}

setup_UpdateGateway - (Interaction diagram)

Created By: q232968 on 29.06.2012
Last Modified: 27.11.2012
Version: 1.0. *Locked:* False
GUID: {15BAAB28-904E-44a9-B212-4FF9D113EFC0}

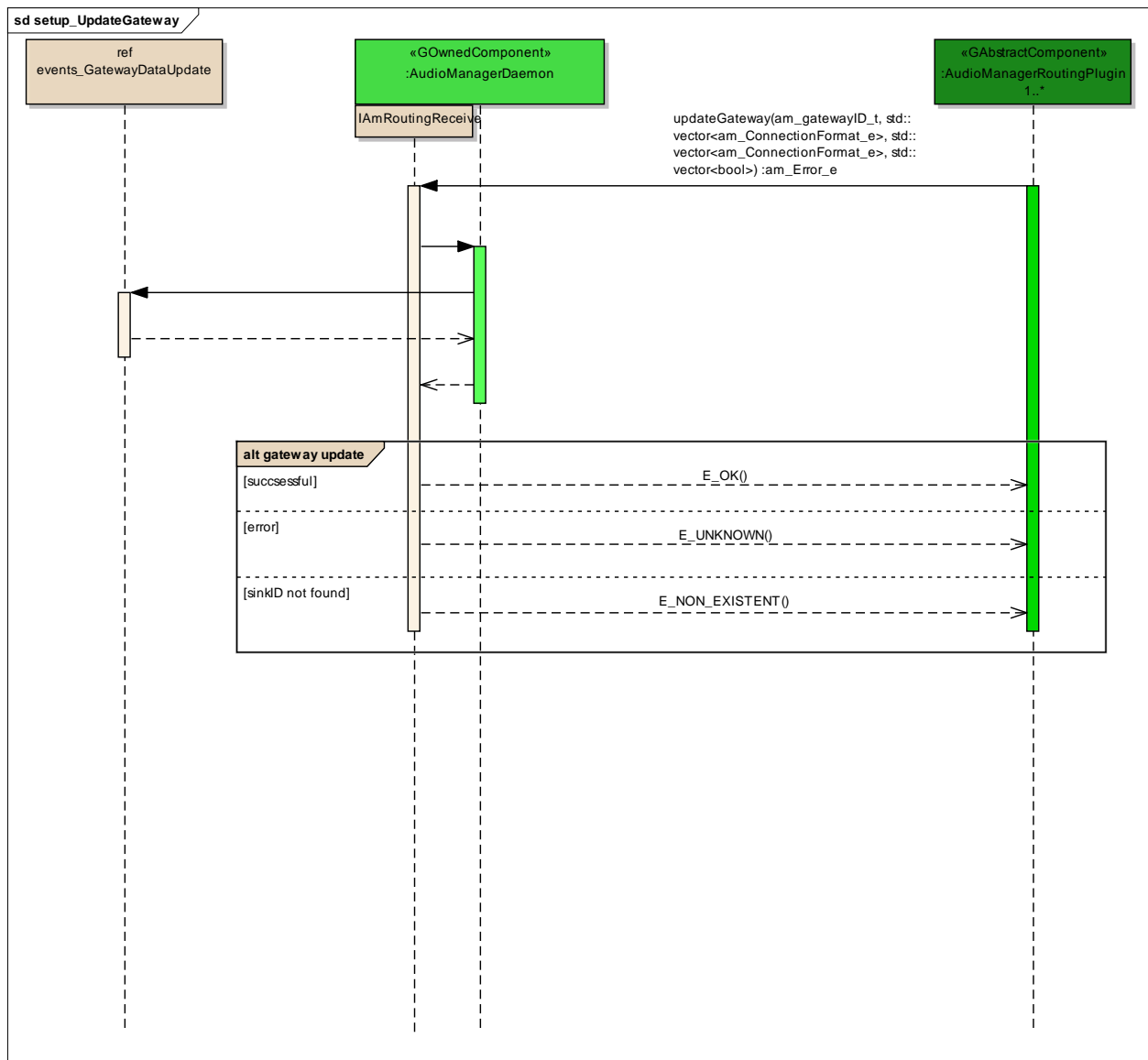


Figure: 39

events_GatewayDataUpdate

Type:

InteractionOccurrence

Status: Proposed. Version 1.0. Phase 1.0.

Package: setup_UpdateGateway *Keywords:*

Detail: Created on 29.06.2012. Last modified on 29.06.2012.

GUID: {1EE37937-629F-44af-A1EE-518892F3DABC}

Connections

Connector	Source	Target	Notes
<u>Sequence</u> Source -> Destination	Public <anonymous>	Public events_GatewayDat aUpdate	
<u>Sequence</u> Source -> Destination	Public events_GatewayDat aUpdate	Public <anonymous>	

events_SinkDataUpdate

Type: **InteractionOccurrence**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_UpdateGateway *Keywords:*
Detail: Created on 29.06.2012. Last modified on 29.06.2012.
GUID: {FECE6E89-0A49-4b3d-866E-61A3CD7AC875}

gateway update

Type: **InteractionFragment**
Status: Proposed. Version 1.0. Phase 1.0.
Package: setup_UpdateGateway *Keywords:*
Detail: Created on 29.06.2012. Last modified on 29.06.2012.
GUID: {04D27B4A-10D3-4868-A98A-BDEB5D764A22}

10Headers

10.1 RoutingReceive

```
/**
 * Copyright (C) 2012, BMW AG
 *
 * This file is part of GENIVI Project AudioManager.
 *
 * Contributions are licensed to the GENIVI Alliance under one or more
 * Contribution License Agreements.
 *
 * \copyright
 * This Source Code Form is subject to the terms of the
 * Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with
 * this file, You can obtain one at http://mozilla.org/MPL/2.0/.
 *
 *
 * \author Christian Mueller, christian.linke@bmw.de BMW 2011,2012
 *
 * \file
 * For further information see http://www.genivi.org/.
 *
 * THIS CODE HAS BEEN GENERATED BY ENTERPRISE ARCHITECT GENIVI MODEL. PLEASE CHANGE ONLY IN ENTERPRISE
ARCHITECT AND GENERATE AGAIN
 */
#if !defined(EA_B7A11CC8_9777_4421_8677_D9CE084D5E2B__INCLUDED_)
#define EA_B7A11CC8_9777_4421_8677_D9CE084D5E2B__INCLUDED_

#include <vector>
#include <string>
#include "audiomanagertypes.h"

namespace am {
class CAmDbusWrapper;
```

```

class CAmSocketHandler;

}

#include "audiomanagertypes.h"

#define RoutingReceiveVersion "2.0"
namespace am {
/**
 * Routing Receive sendInterface description. This class implements everything from
RoutingAdapter -> Audiomanager
 * There are two rules that have to be kept in mind when implementing against this interface:\n
 * \warning
 * 1. CALLS TO THIS INTERFACE ARE NOT THREAD SAFE !!!! \n
 * 2. YOU MAY NOT CALL THE CALLING INTERFACE DURING AN SYNCHRONOUS OR ASYNCHRONOUS CALL THAT
EXPECTS A RETURN VALUE.\n
 * \details
 * Violation these rules may lead to unexpected behavior! Nevertheless you can implement thread
safe by using the deferred-
 * call pattern described on the wiki which also helps to implement calls that are forbidden.\n
 * For more information, please check CAmSerializer
 * @author Christian Mueller
 * @created 17-Jan-2013 10:00:25
 */
class IAmRoutingReceive
{

public:
    IAmRoutingReceive() {

    }

    virtual ~IAmRoutingReceive() {

    }

    /**
     * This function returns the version of the interface
     *
     * @param version    retrieves the verison of the interface
     */
    virtual void    getInterfaceVersion(std::string& version) const =0;
    /**
     * acknowledges a asyncConnect
     *
     * @param handle
     * @param connectionID
     * @param error    E_OK on success, E_ABORTED if action was aborted, E_UNKNOWN on error
     */
    virtual void    ackConnect(const am_Handle_s handle, const am_connectionID_t connectionID,
const am_Error_e error) =0;
    /**
     * acknowledges a asyncDisconnect
     *
     * @param handle
     * @param connectionID
     * @param error    E_OK on success, E_ABORTED if action was aborted, E_UNKNOWN on error
     */
    virtual void    ackDisconnect(const am_Handle_s handle, const am_connectionID_t
connectionID, const am_Error_e error) =0;
    /**
     * acknowledges a asyncsetSinkVolume
     *
     * @param handle
     * @param volume    The current actual value that is set
     * @param error    E_OK on success, E_ABORTED if action was aborted, E_UNKNOWN on error
     */
    virtual void    ackSetSinkVolumeChange(const am_Handle_s handle, const am_volume_t volume,
const am_Error_e error) =0;

```

```

/**
 * acknowledges a asyncsetSourceVolume
 *
 * @param handle    handle that belongs to the change
 * @param volume    the current volume
 * @param error     E_OK on success, E_ABORTED if action was aborted, E_UNKNOWN on error
 */
virtual void ackSetSourceVolumeChange(const am_Handle_s handle, const am_volume_t volume,
const am_Error_e error) =0;
/**
 * acknowlegde for asyncSetSourceState
 *
 * @param handle
 * @param error     E_OK on success, E_ABORTED if action was aborted, E_UNKNOWN on error
 */
virtual void ackSetSourceState(const am_Handle_s handle, const am_Error_e error) =0;
/**
 * acknowledges asyncSetSinkSoundProperties
 *
 * @param handle
 * @param error     E_OK on success, E_ABORTED if action was aborted, E_UNKNOWN on error
 */
virtual void ackSetSinkSoundProperties(const am_Handle_s handle, const am_Error_e error)
=0;
/**
 * acknowledges asyncSetSinkSoundProperty
 *
 * @param handle
 * @param error     E_OK on success, E_ABORTED if action was aborted, E_UNKNOWN on error
 */
virtual void ackSetSinkSoundProperty(const am_Handle_s handle, const am_Error_e error)
=0;
/**
 * acknowledges asyncSetSourceSoundProperties
 *
 * @param handle
 * @param error     E_OK on success, E_ABORTED if action was aborted, E_UNKNOWN on error
 */
virtual void ackSetSourceSoundProperties(const am_Handle_s handle, const am_Error_e
error) =0;
/**
 * acknowledges asyncSetSourceSoundProperty
 *
 * @param handle
 * @param error     E_OK on success, E_ABORTED if action was aborted, E_UNKNOWN on error
 */
virtual void ackSetSourceSoundProperty(const am_Handle_s handle, const am_Error_e error)
=0;
/**
 * acknowledges asyncCrossFade
 *
 * @param handle
 * @param hotSink    this is the current hot sink, HS_INTERMEDIATE is here when a
crossfading action did not reach the end
 * @param error     E_OK on success, E_ABORTED if action was aborted, E_UNKNOWN on error
 */
virtual void ackCrossFading(const am_Handle_s handle, const am_HotSink_e hotSink, const
am_Error_e error) =0;
/**
 * acknowledges a volume tick. This can be used to display volumechanges during ramps
 *
 * @param handle
 * @param sourceID
 * @param volume
 */
virtual void ackSourceVolumeTick(const am_Handle_s handle, const am_sourceID_t sourceID,
const am_volume_t volume) =0;
/**
 * acknowledges a volume tick. This can be used to display volumechanges during ramps
 *
 * @param handle

```

```

        * @param sinkID
        * @param volume
        */
    virtual void ackSinkVolumeTick(const am_Handle_s handle, const am_sinkID_t sinkID, const
am_volume_t volume) =0;
    /**
     * This function returns the ID to the given domainName. If already a domain is
registered with this name, it will return
     * the corresponding ID, if not it will reserve an ID but not register the domain. The
other parameters of the domain will
     * be overwritten when the domain is registered.
     * @return E_OK on success, E_UNKNOWN on error
     *
     * @param name
     * @param domainID
     */
    virtual am_Error_e peekDomain(const std::string& name, am_domainID_t& domainID) =0;
    /**
     * registers a domain
     * @return E_OK on succes, E_ALREADY_EXISTENT if already registered E_UNKOWN on error
     *
     * @param domainData    domainID in am_Domain_s must be 0!
     * @param domainID
     */
    virtual am_Error_e registerDomain(const am_Domain_s& domainData, am_domainID_t& domainID)
=0;
    /**
     * deregisters a domain. All sources, sinks, gateways and crossfaders from that domain
will be removed as well.
     * @return E_OK on succes, E_NON_EXISTENT if not found E_UNKOWN on error
     *
     * @param domainID    < the nonde of the bus
     */
    virtual am_Error_e deregisterDomain(const am_domainID_t domainID) =0;
    /**
     * registers a gateway. @return E_OK on succes, E_ALREADY_EXISTENT if already registered
E_UNKOWN on error
     *
     * @param gatewayData    In a fixed setup, the gatewayID must be below 100. In a dynamic
setup, the gatewayID shall be 0.
     * listSourceFormats and listSinkFormats are empty at registration time. Values are taken
over when sources and sinks are
     * registered.
     *
     * @param gatewayID
     */
    virtual am_Error_e registerGateway(const am_Gateway_s& gatewayData, am_gatewayID_t&
gatewayID) =0;
    /**
     * deregisters a gateway. Also removes all sinks and sources of the controlling domain.
     * @return E_OK on succes, E_NON_EXISTENT if not found E_UNKOWN on error
     *
     * @param gatewayID    domainID of the control domain
     */
    virtual am_Error_e deregisterGateway(const am_gatewayID_t gatewayID) =0;
    /**
     * This function returns the ID to the given sinkName. If already a sink is registered
with this name, it will return the
     * corresponding ID, if not it will reserve an ID but not register the sink. The other
parameters of the sink will be
     * overwritten when the sink is registered.
     * @return E_OK on success, E_UNKNOWN on error
     *
     * @param name    ID is not valid since not created yet
     * @param sinkID
     */
    virtual am_Error_e peekSink(const std::string& name, am_sinkID_t& sinkID) =0;
    /**
     * Registers a sink. If the sink is part of a gateway, the listconnectionFormats is
copied to the gatewayInformation

```

```

    * @return E_OK on succes, E_ALREADY_EXISTENT if already registered E_UNKOWN on error
    *
    * @param sinkData    In a fixed setup, the sinkID within am_Sink_s must be below 100. In
a dynamic setup the sinkID must
    * be 0 in am_Sink_s.
    * @param sinkID
    */
virtual am_Error_e registerSink(const am_Sink_s& sinkData, am_sinkID_t& sinkID) =0;
/**
    * deregisters a sink.
    * @return E_OK on succes, E_NON_EXISTENT if not found E_UNKOWN on error
    *
    * @param sinkID
    */
virtual am_Error_e deregisterSink(const am_sinkID_t sinkID) =0;
/**
    * This function returns the ID to the given sourceName. If already a source is
registered with this name, it will return
    * the corresponding ID, if not it will reserve an ID but not register the source. The
other parameters of the source will
    * be overwritten when the source is registered.
    * @return E_OK on success, E_UNKNOWN on error
    *
    * @param name
    * @param sourceID
    */
virtual am_Error_e peekSource(const std::string& name, am_sourceID_t& sourceID) =0;
/**
    * registers a source. If the source is part of a gateway, the listconnectionFormats is
copied to the gatewayInformation
    * @return E_OK on success, E_UNKNOWN on error, E_ALREADY_EXIST if either name or
sourceID already exists
    *
    * @param sourceData    In a fixed setup, the sourceID within am_Source_s must be below
100. In a dynamic setup the
    * sourceID must be 0 in am_Source_s
    * @param sourceID
    */
virtual am_Error_e registerSource(const am_Source_s& sourceData, am_sourceID_t& sourceID)
=0;
/**
    * deregisters a source
    * @return E_OK on succes, E_NON_EXISTENT if not found E_UNKOWN on error
    *
    * @param sourceID
    */
virtual am_Error_e deregisterSource(const am_sourceID_t sourceID) =0;
/**
    * this function registers a crossfader.
    * @return E_OK on succes, E_ALREADY_EXISTENT if already registered E_UNKOWN on error
    *
    * @param crossfaderData    in a fixed setup, the crossfaderID must be below 100. In a
dynamic setup the crossfasderID
    * shall be 0
    * @param crossfaderID
    */
virtual am_Error_e registerCrossfader(const am_Crossfader_s& crossfaderData,
am_crossfaderID_t& crossfaderID) =0;
/**
    * this function deregisters a crossfader. removes all sources and sinks assiated as
well.
    * @return E_OK on succes, E_NON_EXISTENT if not found E_UNKOWN on error
    *
    * @param crossfaderID
    */
virtual am_Error_e deregisterCrossfader(const am_crossfaderID_t crossfaderID) =0;
/**
    * this function peeks a sourceclassID. It is used by the RoutingPlugins to determine the
SinkClassIDs of a sinkClass.
    * @return E_OK on succes, E_DATABASE_ERROR on error
    *

```



```

        * @param name
        * @param sourceClassID
        */
virtual am_Error_e peekSourceClassID(const std::string& name, am_sourceClass_t&
sourceClassID) =0;
/**
 * this function peeks a sourceclassID. It is used by the RoutingPlugins to determine the
SinkClassIDs of a sinkClass.
 * @return E_OK on succes, E_DATABASE_ERROR on error
 *
 * @param name
 * @param sinkClassID
 */
virtual am_Error_e peekSinkClassID(const std::string& name, am_sinkClass_t& sinkClassID)
=0;
/**
 * is called when a low level interrupt changes it status.
 *
 * @param sourceID
 * @param interruptState
 */
virtual void hookInterruptStatusChange(const am_sourceID_t sourceID, const
am_InterruptState_e interruptState) =0;
/**
 * This hook is called when all elements from a domain are registered.
 * Is used by the Controller to know when all expected domains are finally registered
 *
 * @param domainID
 */
virtual void hookDomainRegistrationComplete(const am_domainID_t domainID) =0;
/**
 * is called when a sink changes its availability
 *
 * @param sinkID
 * @param availability
 */
virtual void hookSinkAvailabilityStatusChange(const am_sinkID_t sinkID, const
am_Availability_s& availability) =0;
/**
 * is called when a source changes its availability
 *
 * @param sourceID
 * @param availability
 */
virtual void hookSourceAvailabilityStatusChange(const am_sourceID_t sourceID, const
am_Availability_s& availability) =0;
/**
 * is called when a domain changes its status. This used for early domains only
 *
 * @param domainID
 * @param domainState
 */
virtual void hookDomainStateChange(const am_domainID_t domainID, const am_DomainState_e
domainState) =0;
/**
 * is called when the timinginformation (delay) changed for a connection.
 *
 * @param connectionID
 * @param delay
 */
virtual void hookTimingInformationChanged(const am_connectionID_t connectionID, const
am_timeSync_t delay) =0;
/**
 * this function is used to send out all data that has been changed in an early state.
 * @return E_OK on success, E_UNKNOWN on error
 *
 * @param earlyData
 */
virtual void sendChangedData(const std::vector<am_EarlyData_s>& earlyData) =0;
/**
 * this function is used to retrieve a pointer to the dbusConnectionWrapper

```

```

Support
    * @return E_OK if pointer is valid, E_UNKNOWN if AudioManager was compiled without Dbus
    *
    * @param dbusConnectionWrapper This is a wrapper class that is needed to keep dbus
inclusions away from the interface.
    * The DbusWrapperClass will return the pointer to the DbusConnection call
(getDBusConnection)
    */
virtual am_Error_e getDBusConnectionWrapper(CAMdbusWrapper*& dbusConnectionWrapper) const
=0;
/**
    * This function returns the pointer to the socketHandler. This can be used to integrate
socket-based activites like
    * communication with the mainloop of the AudioManager.
    * returns E_OK if pointer is valid, E_UNKNOWN in case AudioManager was compiled without
socketHandler support,
    *
    * @param socketHandler
    */
virtual am_Error_e getSocketHandler(CAMSocketHandler*& socketHandler) const =0;
/**
    * confirms the setRoutingReady Command
    *
    * @param handle the handle that was given via setRoutingReady
    * @param error E_OK if the ready command succeeded. E_UNKNOWN if an error happened.
    */
virtual void confirmRoutingReady(const uint16_t handle, const am_Error_e error) =0;
/**
    * confirms the setRoutingRundown Command
    *
    * @param handle handle that was given via setRoutingRundown
    * @param error E_OK if the ready command succeeded. E_UNKNOWN if an error happened.
    */
virtual void confirmRoutingRundown(const uint16_t handle, const am_Error_e error) =0;
/**
    * updates data of an gateway. @return E_OK on success, E_NON_EXISTENT if the gatewayID
is not valid.
    *
    * @param gatewayID This is the new gateway data that has been updated. Please note
that changing source and sink IDs,
    *
    * @param listSourceFormats
    * @param listSinkFormats
    * @param conversionMatrix
    */
virtual am_Error_e updateGateway(const am_gatewayID_t gatewayID, const
std::vector<am_ConnectionFormat_e>& listSourceFormats, const std::vector<am_ConnectionFormat_e>&
listSinkFormats, const std::vector<bool>& conversionMatrix) =0;
/**
    * updates data of an gateway. @return E_OK on success, E_NON_EXISTENT if the sinkID is
not valid.
    *
    * @param sinkID The sinkID of the sink
    * @param sinkClassID
    * @param listSoundProperties
    * @param listConnectionFormats
    * @param listMainSoundProperties
    */
virtual am_Error_e updateSink(const am_sinkID_t sinkID, const am_sinkClass_t sinkClassID,
const std::vector<am_SoundProperty_s>& listSoundProperties, const std::vector<am_ConnectionFormat_e>&
listConnectionFormats, const std::vector<am_MainSoundProperty_s>& listMainSoundProperties) =0;
/**
    * updates data of an source. @return E_OK on success, E_NON_EXISTENT if the sourceID in
the struct is not valid.
    * Please note that only the following data out of am_Source_s have effect when they are
changed:
    *
    * sourceClassID,
    * listSoundProperties,
    * listConnectionFormats,
    * listMainSoundProperties
    *

```

```

        * @param sourceID      the sourceID of the source
        * @param sourceClassID
        * @param listSoundProperties
        * @param listConnectionFormats
        * @param listMainSoundProperties
        */
    virtual am_Error_e updateSource(const am_sourceID_t sourceID, const am_sourceClass_t
sourceClassID, const std::vector<am_SoundProperty_s>& listSoundProperties, const
std::vector<am_ConnectionFormat_e>& listConnectionFormats, const std::vector<am_MainSoundProperty_s>&
listMainSoundProperties) =0;
    /**
     * acknowledges a asyncSetSinkVolumes
     *
     * @param handle
     * @param listvolumes      The list of volumes that have been set. ramp and time values
have no meaning when the struct is
used here.
     * @param error      E_OK on success, E_ABORTED if action was aborted, E_UNKNOWN on error
     */
    virtual void ackSetVolumes(const am_Handle_s handle, const std::vector<am_Volumes_s>&
listvolumes, const am_Error_e error) =0;
    /**
     * The acknowledge of the SinkNotificationConfiguration
     *
     * @param handle
     * @param error
     */
    virtual void ackSinkNotificationConfiguration(const am_Handle_s handle, const am_Error_e
error) =0;
    /**
     * The acknowledge of the SourceNotificationConfiguration
     *
     * @param handle
     * @param error
     */
    virtual void ackSourceNotificationConfiguration(const am_Handle_s handle, const
am_Error_e error) =0;
    /**
     * is called whenever a notified value needs to be send
     *
     * @param sinkID      The sinkID of the sink where the data changed
     * @param payload      The payload
     */
    virtual void hookSinkNotificationDataChange(const am_sinkID_t sinkID, const
am_NotificationPayload_s& payload) =0;
    /**
     * is called whenever a notified value needs to be send
     *
     * @param sourceID      The sinkID of the sink where the data changed
     * @param payload      The payload
     */
    virtual void hookSourceNotificationDataChange(const am_sourceID_t sourceID, const
am_NotificationPayload_s& payload) =0;

};
}
#endif // !defined(EA_B7A1CC8_9777_4421_8677_D9CE084D5E2B__INCLUDED_)

```

10.2 RoutingSend

```

/**
 * Copyright (C) 2012, BMW AG
 *

```

```

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*
*
* \author Christian Mueller, christian.linke@bmw.de BMW 2011,2012
*
* \file
* For further information see http://www.genivi.org/.
*
* THIS CODE HAS BEEN GENERATED BY ENTERPRISE ARCHITECT GENIVI MODEL. PLEASE CHANGE ONLY IN ENTERPRISE
ARCHITECT AND GENERATE AGAIN
*/

#if !defined(EA_19B3916A_5323_4939_B585_FE9193DA3FAD__INCLUDED_)
#define EA_19B3916A_5323_4939_B585_FE9193DA3FAD__INCLUDED_

#include <vector>
#include <string>
#include "audiomanagertypes.h"

namespace am {

class IAmRoutingReceive;

}

#include "audiomanagertypes.h"
#include "IAmRoutingReceive.h"
#include "projecttypes.h"

#define RoutingSendVersion "2.0"
namespace am {
/**
 * This class implements everything from AudioManager -> RoutingAdapter
 * There are two rules that have to be kept in mind when implementing against this interface:\n
 * \warning
 * 1. CALLS TO THIS INTERFACE ARE NOT THREAD SAFE !!!! \n
 * 2. YOU MAY NOT CALL THE CALLING INTERFACE DURING AN SYNCHRONOUS OR ASYNCHRONOUS CALL THAT
EXPECTS A RETURN VALUE.\n
 * \details

```

```

    * Violation these rules may lead to unexpected behavior! Nevertheless you can implement thread
safe by using the deferred-
    * call pattern described on the wiki which also helps to implement calls that are forbidden.\n
    * For more information, please check CAmSerializer
    * @author Christian Mueller
    * @created 17-Jan-2013 10:00:26
    */
class IAmRoutingSend
{
public:
    IAmRoutingSend() {

    }

    virtual ~IAmRoutingSend() {

    }

    /**
     * This function returns the version of the interface
     *
     * @param version
     */
    virtual void getInterfaceVersion(std::string& version) const =0;
    /**
     * starts up the interface. In the implementations, here is the best place for init
routines.
     *
     * @param routingreceiveinterface pointer to the receive interface
     */
    virtual am_Error_e startupInterface(IAmRoutingReceive* routingreceiveinterface) =0;
    /**
     * indicates that the routing now ready to be used. Should be used as trigger to register
all sinks, sources, etc...
     *
     * @param handle handle that uniquely identifies the request
     */
    virtual void setRoutingReady(const uint16_t handle) =0;
    /**
     * indicates that the routing plugins need to be prepared to switch the power off or be
ready again.
     *
     * @param handle the handle that uniquely identifies the request
     */
    virtual void setRoutingShutdown(const uint16_t handle) =0;
    /**
     * aborts an asynchronous action.
     * @return E_OK on success, E_UNKNOWN on error, E_NON_EXISTENT if handle was not found
     *
     * @param handle
     */
    virtual am_Error_e asyncAbort(const am_Handle_s handle) =0;
    /**
     * connects a source to a sink
     * @return E_OK on success, E_UNKNOWN on error, E_WRONG_FORMAT in case
am_ConnectionFormat_e does not match
     *
     * @param handle
     * @param connectionID
     * @param sourceID
     * @param sinkID
     * @param connectionFormat
     */
    virtual am_Error_e asyncConnect(const am_Handle_s handle, const am_connectionID_t
connectionID, const am_sourceID_t sourceID, const am_sinkID_t sinkID, const am_ConnectionFormat_e
connectionFormat) =0;
    /**
     * disconnect a connection with given connectionID
     * @return E_OK on success, E_UNKNOWN on error, E_NON_EXISTENT if connection was not
found

```

```

*
* @param handle
* @param connectionID
*/
virtual am_Error_e asyncDisconnect(const am_Handle_s handle, const am_connectionID_t
connectionID) =0;
/**
* this method is used to set the volume of a sink. This function is used to drive ramps,
to mute or unmute or directly
* set the value. The difference is made through the ramptype.
* @return E_OK on success, E_UNKNOWN on error, E_OUT_OF_RANGE if new volume is out of
range
*
* @param handle
* @param sinkID
* @param volume
* @param ramp
* @param time
*/
virtual am_Error_e asyncSetSinkVolume(const am_Handle_s handle, const am_sinkID_t sinkID,
const am_volume_t volume, const am_RampType_e ramp, const am_time_t time) =0;
/**
* sets the volume of a source. This method is used to set the volume of a sink. This
function is used to drive ramps, to
* mute or unmute or directly set the value. The difference is made through the ramptype.
* @return E_OK on success, E_UNKNOWN on error, E_OUT_OF_RANGE if volume is out of range.
* triggers the acknowledge ackSourceVolumeChange
*
* @param handle
* @param sourceID
* @param volume
* @param ramp
* @param time
*/
virtual am_Error_e asyncSetSourceVolume(const am_Handle_s handle, const am_sourceID_t
sourceID, const am_volume_t volume, const am_RampType_e ramp, const am_time_t time) =0;
/**
* This function is used to set the source state of a particular source.
* @return E_OK on success, E_UNKNOWN on error
*
* @param handle
* @param sourceID
* @param state
*/
virtual am_Error_e asyncSetSourceState(const am_Handle_s handle, const am_sourceID_t
sourceID, const am_SourceState_e state) =0;
/**
* this function sets the sinksoundproperty.
* @return E_OK on success, E_UNKNOWN on error, E_OUT_OF_RANGE in case the property value
is out of range
*
* @param handle
* @param sinkID
* @param listSoundProperties
*/
virtual am_Error_e asyncSetSinkSoundProperties(const am_Handle_s handle, const
am_sinkID_t sinkID, const std::vector<am_SoundProperty_s>& listSoundProperties) =0;
/**
* this function sets the sinksoundproperty.
* @return E_OK on success, E_UNKNOWN on error, E_OUT_OF_RANGE in case the property value
is out of range
*
* @param handle
* @param sinkID
* @param soundProperty
*/
virtual am_Error_e asyncSetSinkSoundProperty(const am_Handle_s handle, const am_sinkID_t
sinkID, const am_SoundProperty_s& soundProperty) =0;
/**
* this function sets the sourcesoundproperty.
* @return E_OK on success, E_UNKNOWN on error, E_OUT_OF_RANGE in case the property value

```

```

is out of range
    *
    * @param handle
    * @param sourceID
    * @param listSoundProperties
    */
virtual am_Error_e asyncSetSourceSoundProperties(const am_Handle_s handle, const
am_sourceID_t sourceID, const std::vector<am_SoundProperty_s>& listSoundProperties) =0;
/**
 * this function sets the sourcesoundproperty.
 * @return E_OK on success, E_UNKNOWN on error, E_OUT_OF_RANGE in case the property value
is out of range
    *
    * @param handle
    * @param sourceID
    * @param soundProperty
    */
virtual am_Error_e asyncSetSourceSoundProperty(const am_Handle_s handle, const
am_sourceID_t sourceID, const am_SoundProperty_s& soundProperty) =0;
/**
 * this function triggers crossfading.
 * @return E_OK on success, E_UNKNOWN on error
    *
    * @param handle
    * @param crossfaderID
    * @param hotSink
    * @param rampType
    * @param time
    */
virtual am_Error_e asyncCrossFade(const am_Handle_s handle, const am_crossfaderID_t
crossfaderID, const am_HotSink_e hotSink, const am_RampType_e rampType, const am_time_t time) =0;
/**
 * this function is used for early and late audio functions to set the domain state
 * @return E_OK on success, E_UNKNOWN on error
    *
    * @param domainID
    * @param domainState
    */
virtual am_Error_e setDomainState(const am_domainID_t domainID, const am_DomainState_e
domainState) =0;
/**
 * this method is used to retrieve the busname during startup of the plugin. Needs to be
implemented
    * @return E_OK on success, E_UNKNOWN on error
    *
    * @param BusName
    */
virtual am_Error_e returnBusName(std::string& BusName) const =0;
/**
 * This command sets multiple source or and sink volumes within a domain at a time. It
can be used to synchronize volume
 * setting events.
 * @return E_OK on success, E_UNKNOWN on error.
    *
    * @param handle    the handle
    * @param listVolumes    a list of volumes that shall be set a the same time
    */
virtual am_Error_e asyncSetVolumes(const am_Handle_s handle, const
std::vector<am_Volumes_s>& listVolumes) =0;
/**
 * sets the notification configuration of a sink.
 * @return E_OK on success, E_UNKNOWN on error.
    *
    * @param handle    The handle for this operation.
    * @param sinkID    the sourceID of the source the notification should be set
    * @param notificationConfiguration    The notification configuration
    */
virtual am_Error_e asyncSetSinkNotificationConfiguration(const am_Handle_s handle, const
am_sinkID_t sinkID, const am_NotificationConfiguration_s& notificationConfiguration) =0;
/**
 * sets the notification configuration of a source.

```

```

    * @return E_OK on success, E_UNKNOWN on error.
    *
    * @param handle    The handle for this operation.
    * @param sourceID  the sourceID of the source the notification should be set
    * @param notificationConfiguration  The notification configuration
    */
    virtual am_Error_e asyncSetSourceNotificationConfiguration(const am_Handle_s handle,
const am_sourceID_t sourceID, const am_NotificationConfiguration_s& notificationConfiguration) =0;
};
}
#endif // !defined(EA_19B3916A_5323_4939_B585_FE9193DA3FAD__INCLUDED_)

```