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GENIVI DocumentIAmRoutingPlugin

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- Component Design Template for Component
- **IAmRoutingPlugin**

Platform Compliance Specification

9

Draft Version 4.0 10

11

12 19.08.2015

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- 14 Sponsored by:
- **GENIVI** Alliance 15
- Accepted for release by: 16
- This document has not yet been accepted for release by the GENIVI Alliance Board of 17
- 18 Directors.
- 19 **Abstract:**
- This document describes the collective requirements of the GENIVI OEMs for an "entry 20
- 21 navigation" IVI profile.

22 **Keywords: GENIVI**

«Hints for entry and help text are in this style. Once you are confident that the document has been completed then all text in this style should be removed. To do so click on this text, press the right mouse button, select STYLES and then STYLES WITH SIMILAR FORMATTING and then press CTRL-X to delete»

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Change history

2 The following table shows the change history for this specification.

Document revision change history

| Date | Version | CR# | Description |
|------------|---------|-----|--------------------------------|
| 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 |
| 23.06.2014 | 3.0 | | Changes for Intrepid |
| 19.08.2015 | 4.0 | | Changes for Kronos |

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8.2 IAmRoutingSend Fehler! Textmarke nicht definiert.

List of Figures

«List here any figures that are used in this document and be sure to right click and select 'update field' after any additions or changes>>>

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1

List of Tables

| 2 3 | «List here any tables that are used in this document and be sure to right changes» | click and select 'update field' after any additions or |
|----------|---|--|
| 4 | | |
| 5 | | |
| 6 | Table 1 – Referenced GENIVI Alliance Documents | Fehler! Textmarke nicht definiert. |
| 7 | Table 2 – Referenced External Documents | Fehler! Textmarke nicht definiert. |
| 8 | Table 3 – Acronyms and Abbreviations | Fehler! Textmarke nicht definiert. |
| 9 | · | |
| 10 | | |
| 11 | | |
| 12 | ≪Document Overview - Delete when this document is completed. | |
| 13 | The goal of the Component Design Document is to capture the archite | |
| 14 15 | specific component. Information should be added incrementally. It is all information has been completed and this document has been revi | |
| 16 | Component Design Document for the applicable component. | eweu, it then becomes the final version of the |

1 Introduction

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

1 Targeted Audience

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

2 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

3 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

4 Format of the entries in this document

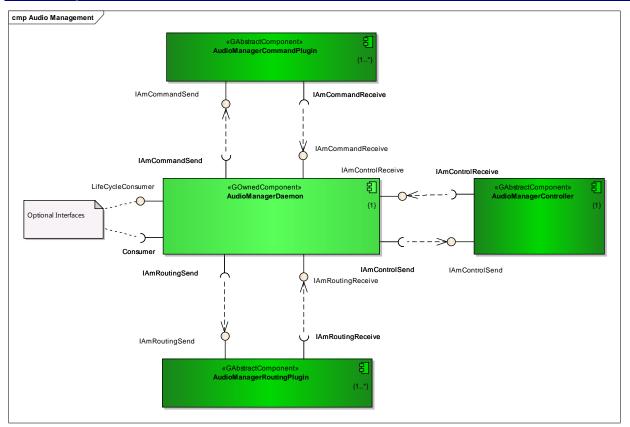
The entries pertaining to components have the following format:

| Field Description | ID unique |
|-------------------|---|
| ID | text formed as: <abb>-<auto incrementing="" number="">.</auto></abb> |
| Name | name with optional link (URL) to the external reference (e.g. The project home page) |
| Compliance Level | as defined in Categories. |
| Priority | as described in GENIVI Compliance Explanation |
| Description | textual clarification |
| Requirements | For PC, AC contains a table of requirements |

5 Standards

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

6 Component Overview



7 Component Interaction

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}

$\underline{feedback_receivedSourceNotificationPayload} \ - (Interaction \ diagram)$

Created By: q232968 on 30.01.2013

Last Modified: 30.01.2013 Version: 1.0. Locked: False

GUID: {AECCCC7F-9D73-4fae-AF8D-726572D08B51}

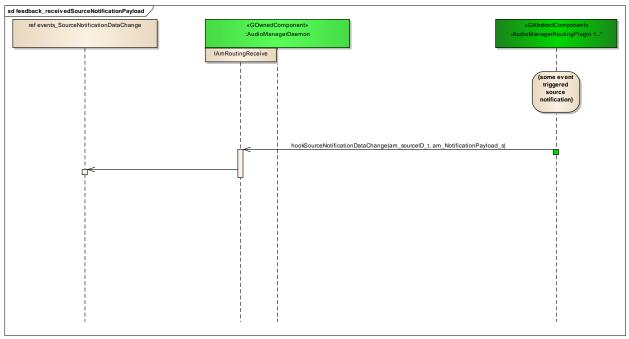


Figure: 1

events_SourceNotificationDataChange

Type: <u>InteractionOccurrence</u>

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> | Public | Public | |
| Source -> Destination | IAmRoutingReceive | events_SourceNotificati onDataChange | |
| | | | |

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}

$\underline{feedback_receiveSinkNotificationPayload} \ - (Interaction \ diagram)$

Created By: q232968 on 29.01.2013

Last Modified: 30.01.2013 Version: 1.0. Locked: False

GUID: {F0591230-AC1C-4acd-822A-17B4F6E44686}

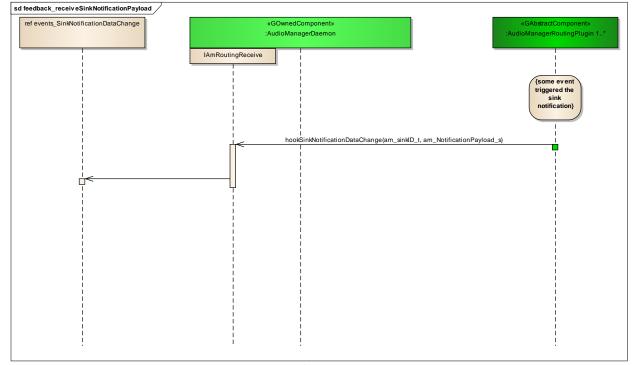


Figure: 2

events_SinkNotificationDataChange

Type: <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:feedback_receiveSinkNotificationPayloadKeywords:Detail:Created on 29.01.2013. Last modified on 29.01.2013.GUID:{CE894740-6B86-434f-86CB-BB91B606F68E}

Connections

| Connector | Source | Target | Notes |
|-----------------------|-------------------|-------------------------|-------|
| Sequence | Public | Public | |
| Source -> Destination | IAmRoutingReceive | events_SinkNotification | |
| | | DataChange | |
| | | | |

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}

$\underline{feedback_receiveChangeData} - (Interaction\ diagram)$

Created By: christian on 12.10.2011

Last Modified: 29.01.2013 Version: 1.0. Locked: False

GUID: {6CC9DA8C-17A7-49ec-8FEE-C6AD89AD692C}

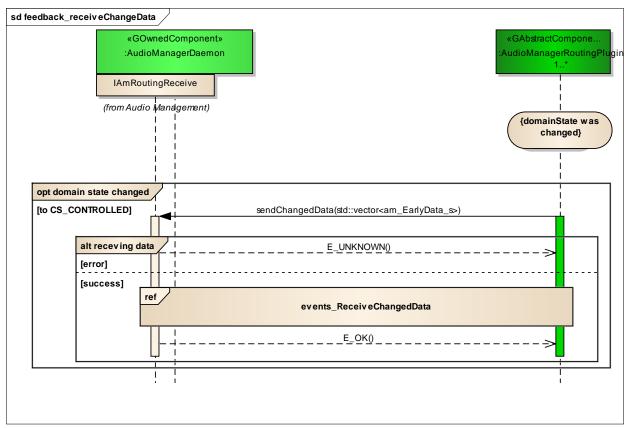


Figure: 3

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}

receving data

Type: <u>InteractionFragment</u>

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}

$\underline{feedback_receiveSinkVolumeTicks} - (Interaction\ diagram)$

Created By: christian on 04.10.2011

Last Modified: 24.10.2011 Version: 1.0. Locked: False

GUID: {27353D6D-099B-435a-AB2E-9E952E37F967}

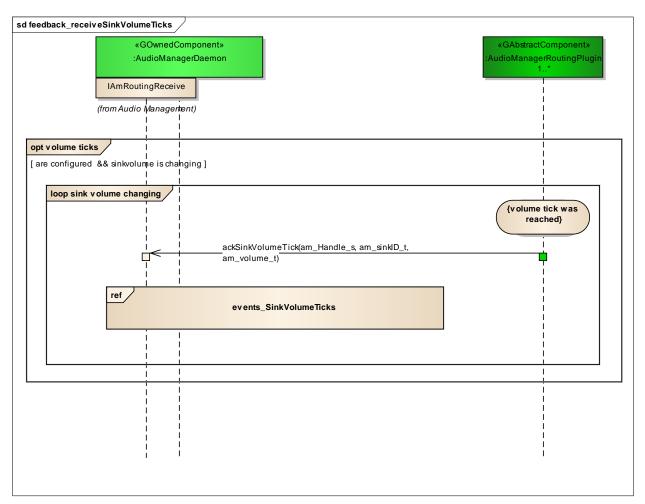


Figure: 4

events_SinkVolumeTicks

Type: **InteractionOccurrence**

Status: Proposed. Version 1.0. Phase 1.0.

Package:feedback_receiveSinkVolumeTicksKeywords:Detail:Created on 12.10.2011. Last modified on 12.10.2011.GUID:{C765AA2E-32B3-4bb9-B561-AFAB9435FDA0}

sink volume changing

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:feedback_receiveSinkVolumeTicksKeywords: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_receiveSinkVolumeTicksKeywords: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}

 $\underline{feedback_receiveSourceVolumeTicks} - (Interaction\ diagram)$

Created By: christian on $04.\overline{10.2011}$

Last Modified: 24.10.2011 Version: 1.0. Locked: False

GUID: {E0BC2FC8-63EC-43ba-A6BD-EE6ED4645D58}

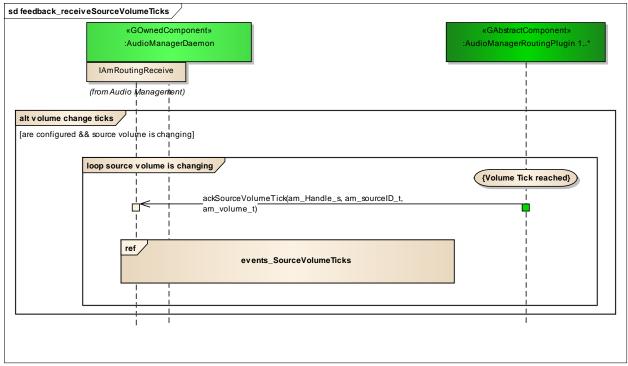


Figure: 5

SourceVolumeTicks

Type: <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:feedback_receiveSourceVolumeTicksKeywords:Detail:Created on 04.10.2011. Last modified on 04.10.2011.GUID:{6FB19626-3987-4e21-A6C0-4229225190E7}

events_SourceVolumeTicks

Type: <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:feedback_receiveSourceVolumeTicksKeywords:Detail:Created on 12.10.2011. Last modified on 12.10.2011.GUID:{FF0CA5D3-4E0C-4fc9-B794-791A435A5837}

source volume is changing

Type: <u>InteractionFragment</u>

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: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:feedback_receiveSourceVolumeTicksKeywords: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}

<u>feedback_receiveLowLevelInterrupts</u> - (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}

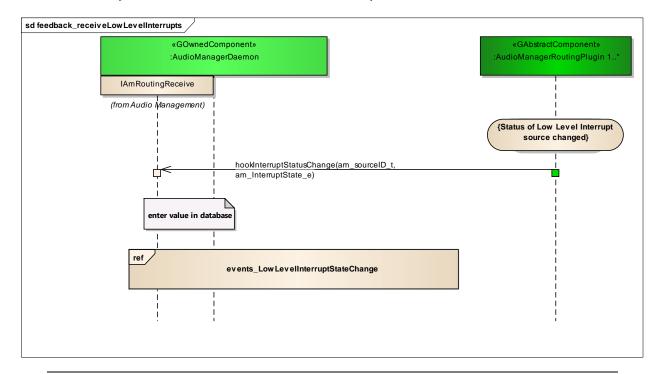


Figure: 6

events_LowLevelInterruptStateChange

Type: <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:feedback_receiveLowLevelInterruptsKeywords: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}

<u>feedback_SinkAvailabilityChange</u> - (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}

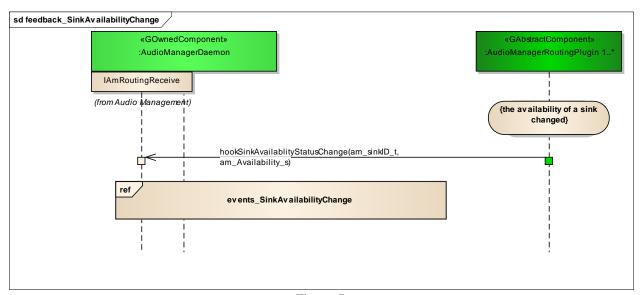


Figure: 7

events_SinkAvailabilityChange

Type: **InteractionOccurrence**

Status: Proposed. Version 1.0. Phase 1.0.

Package:feedback_SinkAvailabilityChangeKeywords: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}

<u>feedback SourceAvailabilityChange</u> - (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}

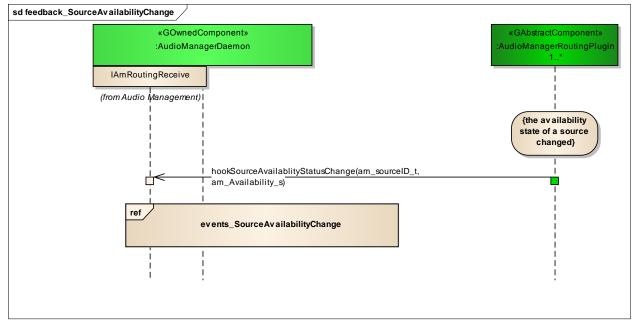


Figure: 8

events_SourceAvailabilityChange

Type: <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:feedback_SourceAvailabilityChangeKeywords: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}

$\underline{feedback_TimingInformationChange} \ - (Interaction \ diagram)$

Created By: christian on 23.09.2011

Last Modified: 24.10.2011

Version: 1.0. Locked: False

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

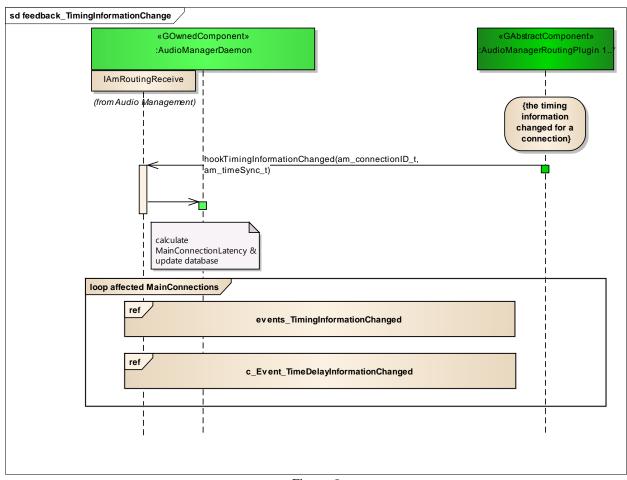


Figure: 9

affected MainConnections

Type: InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package:feedback_TimingInformationChangeKeywords:Detail:Created on 11.10.2011. Last modified on 11.10.2011.GUID:{DC6CB0A9-2D68-45a5-BBA7-F98A39044F0C}

c_Event_TimeDelayInformationChanged

Type: <u>InteractionOccurrence</u>

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_TimingInformationChangeKeywords:Detail:Created on 23.09.2011. Last modified on 12.10.2011.GUID:{3EAD7C21-7FEC-4648-95F0-C603EF00678E}

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.

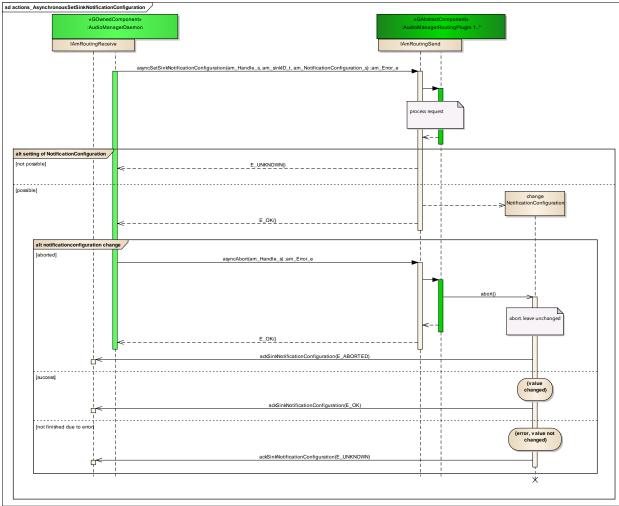
Package: Actions

Detail: Created on 29.01.2013. Last modified on 29.01.2013 GUID: {1748643B-1D36-406b-8E5D-E4D1D63FC3CA}

$\underline{actions}\underline{AsynchronousSetSinkNotificationConfiguration} - (Interaction\ diagram)$

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> | Public | Public | |
| Source -> Destination | IAmRoutingSend | change NotificationConfigurati on | |

| Connector | Source | Target | Notes |
|--------------------------|-------------------------|-------------------------|-------|
| Sequence abort | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | change | |
| | | NotificationConfigurati | |
| | | on | |
| Sequence | Public | Public | |
| ackSinkNotificationConfi | change | IAmRoutingReceive | |
| guration(am_Handle_s, | NotificationConfigurati | TAIIROutingReceive | |
| am_Error_e) | on | | |
| Source -> Destination | Oli | | |
| Source -> Destination | | | |
| Sequence | Public | Public | |
| ackSinkNotificationConfi | change | IAmRoutingReceive | |
| guration(am_Handle_s, | NotificationConfigurati | | |
| am_Error_e) | on | | |
| Source -> Destination | | | |
| Sequence | Public | Public | |
| ackSinkNotificationConfi | change | IAmRoutingReceive | |
| guration(am_Handle_s, | NotificationConfigurati | 8 | |
| am_Error_e) | on | | |
| Source -> Destination | | | |
| | | | |

notification configuration change

Type: <u>InteractionFragment</u>

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_AsynchronousSetSinkNotificationConfiguration Keywords:

Detail: Created on 29.01.2013. Last modified on 29.01.2013. GUID: {59B76DA7-9B8D-4bc6-9771-37650C2403F4}

actions_AsynchronousSetSourceNotificationConfiguration

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}

<u>actions AsynchronousSetSourceNotificationConfiguration</u> - (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}

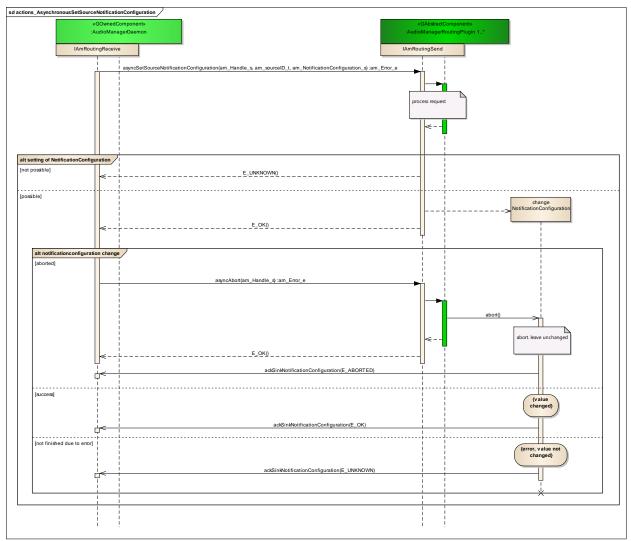


Figure: 11

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 |
|--------------------------|-------------------------|-------------------------|-------|
| <u>Sequence</u> | Public | Public | |
| Source -> Destination | IAmRoutingSend | change | |
| | | NotificationConfigurati | |
| | | on | |
| Sequence abort | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | change | |
| | • | NotificationConfigurati | |
| | | on | |
| Sequence | Public | Public | |
| ackSinkNotificationConfi | change | IAmRoutingReceive | |
| guration(am_Handle_s, | NotificationConfigurati | | |
| am_Error_e) | on | | |
| Source -> Destination | | | |
| Sequence | Public | Public | |
| ackSinkNotificationConfi | change | IAmRoutingReceive | |
| guration(am_Handle_s, | NotificationConfigurati | | |
| am_Error_e) | on | | |
| Source -> Destination | | | |
| Sequence | Public | Public | |
| ackSinkNotificationConfi | change | IAmRoutingReceive | |
| guration(am_Handle_s, | NotificationConfigurati | | |
| am_Error_e) | on | | |
| Source -> Destination | | | |
| | | | |

notification configuration change

Type: <u>InteractionFragment</u>

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

setting of NotificationConfiguration

Type: <u>InteractionFragment</u>

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: {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}

<u>actions SetDomainState</u> - (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}

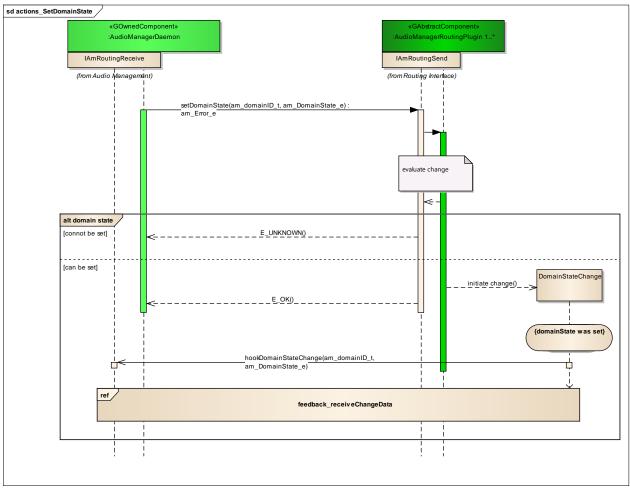


Figure: 12

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 |
|---------------------------------|-------------------------|-------------------|-------|
| Sequence initiate change | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | DomainStateChange | |
| | | | |
| <u>Sequence</u> | Public | Public | |
| hookDomainStateChange(| DomainStateChange | IAmRoutingReceive | |
| am_domainID_t, | | | |
| am_DomainState_e) | | | |
| Source -> Destination | | | |
| | | | |

domain state

Type: <u>InteractionFragment</u>

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: <u>InteractionOccurrence</u>

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}

<u>actions AsyncCrossFade</u> - (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}

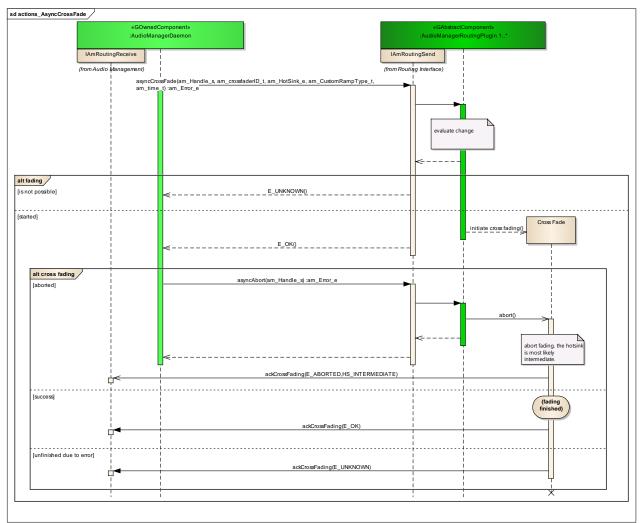


Figure: 13

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 | Public | Public | |
| fading | <anonymous></anonymous> | Cross Fade | |

| Connector | Source | Target | Notes |
|------------------------|-------------------------|-------------------|-------|
| Source -> Destination | | | |
| Sequence abort | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | Cross Fade | |
| Sequence | Public | Public | |
| ackCrossFading(am_hand | Cross Fade | IAmRoutingReceive | |
| le_t, am_HotSink_e, | | | |
| am_error_t) | | | |
| Source -> Destination | | | |
| Sequence | Public | Public | |
| ackCrossFading(am_hand | Cross Fade | IAmRoutingReceive | |
| le_t, am_HotSink_e, | | | |
| am_error_t) | | | |
| Source -> Destination | | | |
| Sequence | Public | Public | |
| ackCrossFading(am_hand | Cross Fade | IAmRoutingReceive | |
| le_t, am_HotSink_e, | | | |
| am_error_t) | | | |
| Source -> Destination | | | |
| | | | |

cross fading

Type: <u>InteractionFragment</u>

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: <u>InteractionFragment</u>

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}

<u>actions AsynchronouSetSourceSoundProperty</u> - (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}

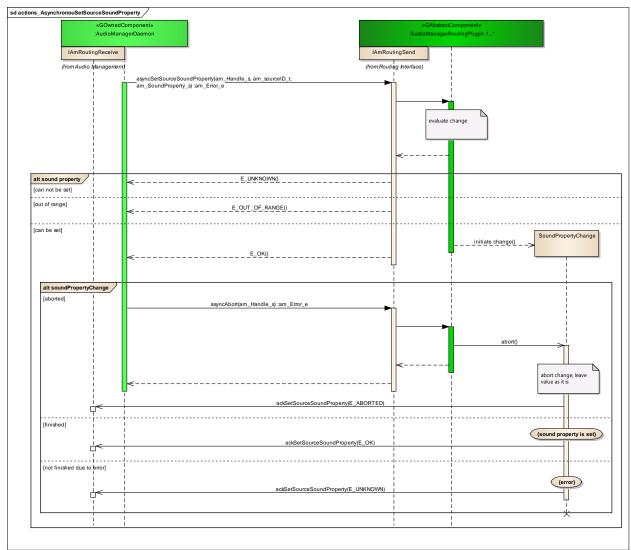


Figure: 14

SoundPropertyChange

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronouSetSourceSoundPropertyKeywords:Detail:Created on 05.10.2011. Last modified on 05.10.2011.GUID:{96E2E73B-3AAB-4181-BC20-DF03148C6496}

Connections

| Connector | Source | Target | Notes |
|---|-------------------------|---------------------|-------|
| Sequence initiate change | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | SoundPropertyChange | |
| Sequence abort | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | SoundPropertyChange | |
| <u>Sequence</u> | Public | Public | |
| ackSetSourceSoundPrope rty(am_handle_t, am_error_t) | SoundPropertyChange | IAmRoutingReceive | |
| Source -> Destination | | | |
| Sequence | Public | Public | |
| ackSetSourceSoundPrope rty(am_handle_t, am_error_t) | SoundPropertyChange | IAmRoutingReceive | |
| Source -> Destination | | | |
| Sequence | Public | Public | |
| ackSetSourceSoundPrope rty(am_handle_t, am_error_t) | SoundPropertyChange | IAmRoutingReceive | |
| Source -> Destination | | | |

sound property

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronouSetSourceSoundPropertyKeywords:Detail:Created on 08.09.2011. Last modified on 08.09.2011.GUID:{37EF046B-A904-4c8d-9497-401291195902}

soundPropertyChange

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronouSetSourceSoundPropertyKeywords: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}

$\underline{actions} \ \underline{AsynchronousSetSinkSoundProperty} - (Interaction \ diagram)$

Created By: christian on 22.09.2011

Last Modified: 11.10.2011

Version: 1.0. Locked: False

GUID: {94DB7C80-EA1B-441a-82D1-AEA6E50A715D}

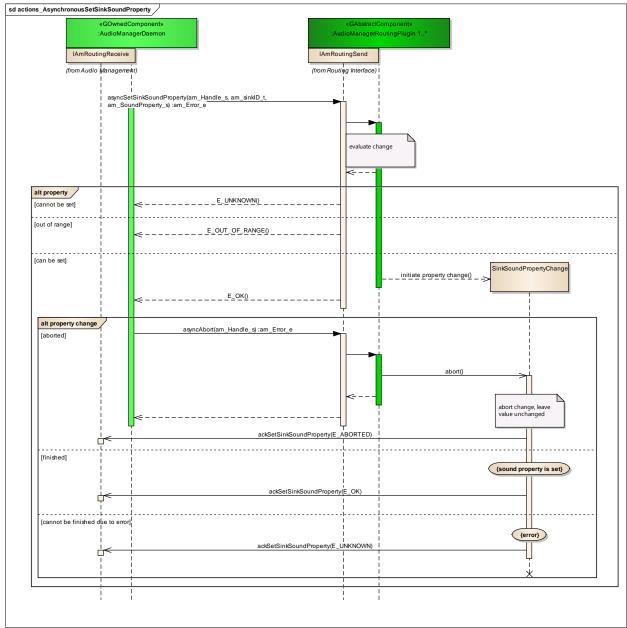


Figure: 15

SinkSoundPropertyChange

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousSetSinkSoundPropertyKeywords: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 | Public | Public | |
| property change | <anonymous></anonymous> | SinkSoundPropertyCha | |
| Source -> Destination | | nge | |
| Sequence abort | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | SinkSoundPropertyCha | |
| Source -> Destination | \allonymous> | | |
| | | nge | |
| <u>Sequence</u> | Public | Public | |
| ackSetSinkSoundProperty | SinkSoundPropertyCha | IAmRoutingReceive | |
| (am_handle_t, | nge | | |
| am_error_t) | | | |
| Source -> Destination | | | |
| Sequence | Public | Public | |
| ackSetSinkSoundProperty | SinkSoundPropertyCha | IAmRoutingReceive | |
| (am_handle_t, | nge | ii iiiitoutiiigiteeeive | |
| am_error_t) | 11.50 | | |
| Source -> Destination | | | |
| Source / Bosumarion | | | |
| Sequence | Public | Public | |
| ackSetSinkSoundProperty | SinkSoundPropertyCha | IAmRoutingReceive | |
| (am_handle_t, | nge | | |
| am_error_t) | | | |
| Source -> Destination | | | |
| | | | |

property

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousSetSinkSoundPropertyKeywords:Detail:Created on 22.09.2011. Last modified on 07.10.2011.GUID:{A554525F-97C6-4a89-A643-FE024CF4A216}

property change

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousSetSinkSoundPropertyKeywords:Detail:Created on 07.10.2011. Last modified on 07.10.2011.GUID:{E7A651FF-DE50-4a7f-B331-473BF6AD5A3A}

actions_AsynchronousSourceStateChange

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-EE1-474a-BD5E-1D83F74A3A0E}

<u>actions_AsynchronousSourceStateChange</u> - (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}

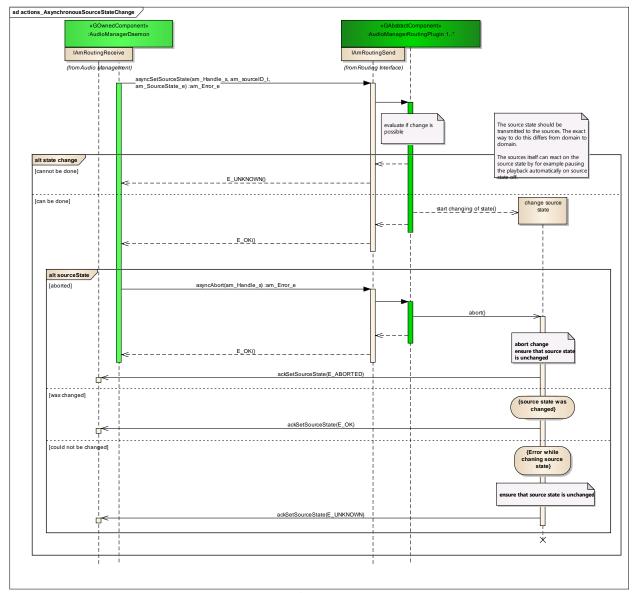


Figure: 16

change source state

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousSourceStateChangeKeywords: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 | Public | Public | |
| of state | <anonymous></anonymous> | change source state | |

| Connector | Source | Target | Notes |
|--|-----------------------------------|----------------------------|-------|
| Source -> Destination | | | |
| Sequence abort Source -> Destination | Public <anonymous></anonymous> | Public change source state | |
| Sequence ackSetSourceState(am_ha ndle_t, am_error_t) Source -> Destination | Public change source state | Public IAmRoutingReceive | |
| Sequence ackSetSourceState(am_ha ndle_t, am_error_t) Source -> Destination | Public change source state | Public IAmRoutingReceive | |
| Sequence ackSetSourceState(am_ha ndle_t, am_error_t) Source -> Destination | Public change source state | Public IAmRoutingReceive | |

sourceState

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousSourceStateChangeKeywords: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_AsynchronousSourceStateChangeKeywords:Detail:Created on 09.09.2011. Last modified on 09.09.2011.GUID:{A204EA07-A9BF-47f5-B1A6-BB31C73FCF1C}

actions_AsynchronousAbortAction

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}

<u>actions Asynchronous Abort Action</u> - (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}

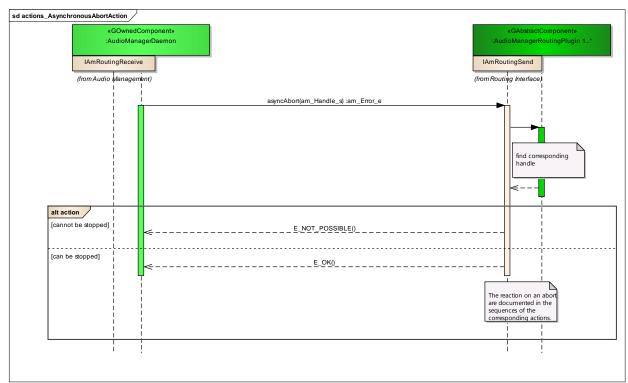


Figure: 17

action

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousAbortActionKeywords:Detail:Created on 09.09.2011. Last modified on 09.09.2011.GUID:{104ADA75-459F-4b91-AE1F-D3A80A2FB104}

action was

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousAbortActionKeywords:Detail:Created on 09.09.2011. Last modified on 09.09.2011.GUID:{6FD3AE88-04EE-4d6e-9C86-924CED974693}

actions_AsynchronousSinkVolumeChange

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}

$\underline{actions} \ \underline{AsynchronousSinkVolumeChange} \ - (Interaction \ diagram)$

Created By: christian on 06.09.2011

Last Modified: 11.10.2011

Version: 1.0. Locked: False

GUID: {0AAAF8D8-63E9-4f9a-B744-4F997BDB7430}

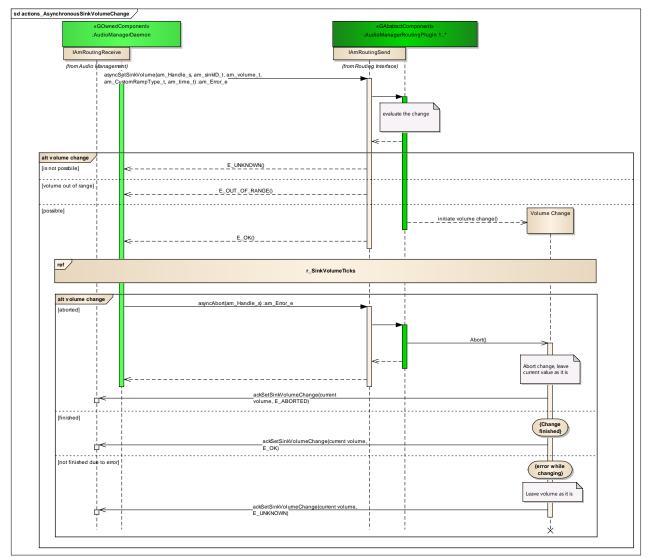


Figure: 18

Volume Change

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousSinkVolumeChangeKeywords: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></anonymous> | Public Volume Change | |
| Sequence Abort Source -> Destination | Public <anonymous></anonymous> | Public Volume Change | |
| Sequence ackSetSinkVolumeChang e(am_Handle_s, am_volume_t, am_Error_e) Source -> Destination | Public Volume Change | Public IAmRoutingReceive | |
| Sequence ackSetSinkVolumeChang e(am_Handle_s, am_volume_t, am_Error_e) Source -> Destination | Public Volume Change | Public IAmRoutingReceive | |
| Sequence ackSetSinkVolumeChang e(am_Handle_s, am_volume_t, am_Error_e) Source -> Destination | Public Volume Change | Public IAmRoutingReceive | |

r_SinkVolumeTicks

Type: <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousSinkVolumeChangeKeywords:Detail:Created on 04.10.2011. Last modified on 04.10.2011.GUID:{BBD0FC19-6E47-44a5-9110-38CE60EF41B7}

volume change

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousSinkVolumeChangeKeywords:Detail:Created on 04.10.2011. Last modified on 04.10.2011.GUID:{0E77434C-E240-46d4-8DE7-39830B8A10BE}

volume change

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousSinkVolumeChangeKeywords:Detail:Created on 07.09.2011. Last modified on 07.09.2011.GUID:{ECC1DC71-D8C3-47a3-AA29-9B15816DAE8B}

actions_AsynchronousSourceVolumeChange

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}

$\underline{actions} \ \, \underline{AsynchronousSourceVolumeChange} \ \, - (Interaction \ diagram)$

Created By: christian on 05.09.2011

Last Modified: 29.11.2012 Version: 1.0. Locked: False

GUID: {A2A91E86-5EEC-424e-A52D-1FD0BCF03B95}

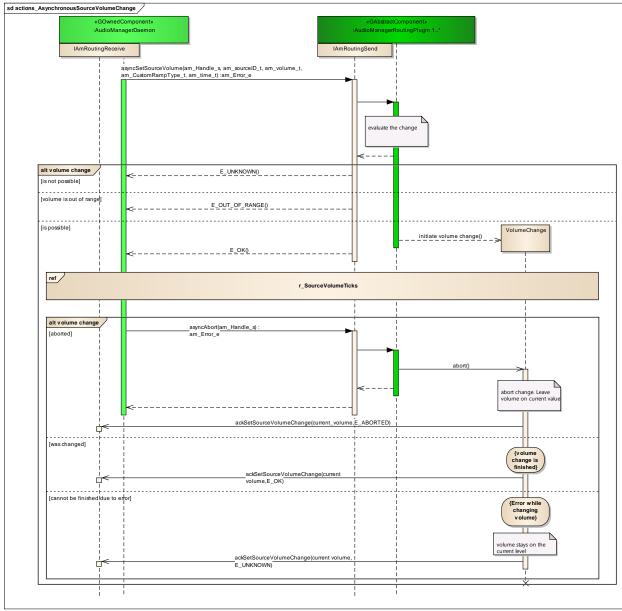


Figure: 19

VolumeChange

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousSourceVolumeChangeKeywords:Detail:Created on 07.09.2011. Last modified on 07.09.2011.GUID:{753AD0E0-D869-477c-9407-E15EEA1508B4}

Connections

| Connections | | | | | |
|---------------------------------|--------|--------|-------|--|--|
| Connector | Source | Target | Notes | | |
| Sequence initiate volume | Public | Public | | | |

| Connector | Source | Target | Notes |
|--|--------------------------------|-----------------------------|-------|
| change Source -> Destination | <anonymous></anonymous> | VolumeChange | |
| Source -> Destination | Public <anonymous></anonymous> | Public VolumeChange | |
| Sequence ackSetSourceVolumeCha nge(am_Handle_s, am_volume_t, am_Error_e) Source -> Destination | Public VolumeChange | Public IAmRoutingReceive | |
| Sequence ackSetSourceVolumeCha nge(am_Handle_s, am_volume_t, am_Error_e) Source -> Destination | Public VolumeChange | Public IAmRoutingReceive | |
| Sequence ackSetSourceVolumeCha nge(am_Handle_s, am_volume_t, am_Error_e) Source -> Destination | Public VolumeChange | Public IAmRoutingReceive | |

r_SourceVolumeTicks

Type: InteractionOccurrence

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousSourceVolumeChangeKeywords:Detail:Created on 04.10.2011. Last modified on 04.10.2011.GUID:{D77383B9-BA7C-4aa3-8861-A7267663E651}

volume change

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousSourceVolumeChangeKeywords:Detail:Created on 07.09.2011. Last modified on 07.09.2011.GUID:{B05AAA91-802A-4f08-B332-67BAC86BA737}

volume change

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousSourceVolumeChangeKeywords:Detail:Created on 04.10.2011. Last modified on 04.10.2011.GUID:{7FE10634-2E5C-41c7-A394-26EEEA721A7A}

volume change

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousSourceVolumeChangeKeywords: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}

<u>actions_AsynchronousDisconnect</u> - (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}

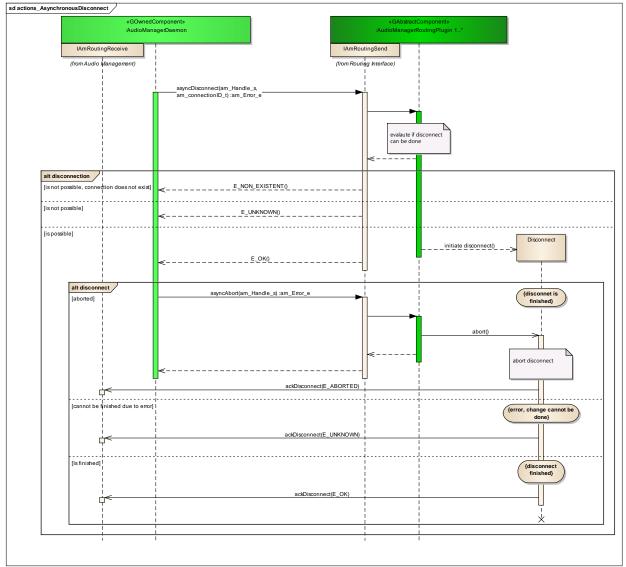


Figure: 20

Disconnect

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousDisconnectKeywords:Detail:Created on 24.08.2011. Last modified on 24.08.2011.GUID:{9B98FC84-98DE-4034-819B-1B22417E88FE}

Connections

| Commettons | | | | | |
|--------------------------|-------------------------|------------|-------|--|--|
| Connector | Source | Target | Notes | | |
| Sequence initiate | Public | Public | | | |
| disconnect | <anonymous></anonymous> | Disconnect | | | |
| Source -> Destination | | | | | |

| Connector | Source | Target | Notes |
|-------------------------|-------------------------|--------------------------|-------|
| | | | |
| Sequence abort | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | Disconnect | |
| ~ | | | |
| <u>Sequence</u> | Public | Public | |
| ackDisconnect(am_Handl | Disconnect | IAmRoutingReceive | |
| e_s, am_connectionID_t, | | | |
| am_Error_e) | | | |
| Source -> Destination | | | |
| | | | |
| <u>Sequence</u> | Public | Public | |
| ackDisconnect(am_Handl | Disconnect | IAmRoutingReceive | |
| e_s, am_connectionID_t, | | | |
| am_Error_e) | | | |
| Source -> Destination | | | |
| | | | |
| Sequence | Public | Public | |
| ackDisconnect(am_Handl | Disconnect | IAmRoutingReceive | |
| e_s, am_connectionID_t, | | | |
| am_Error_e) | | | |
| Source -> Destination | | | |
| | | | |

disconnect

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousDisconnectKeywords: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_AsynchronousDisconnectKeywords:Detail:Created on 24.08.2011. Last modified on 24.08.2011.GUID:{23708B08-D308-4341-A2F7-E9DA5A386C7F}

$actions_A synchronous Multiple Volume Change$

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}

$\underline{actions_Asynchronous}\underline{MultipleVolumeChange} \ - (\mathit{Interaction\ diagram})$

Created By: q232968 on 29.11.2012

Last Modified: 29.11.2012 Version: 1.0. Locked: False

GUID: {43186345-EB25-4534-A2A5-67655D3755A0}

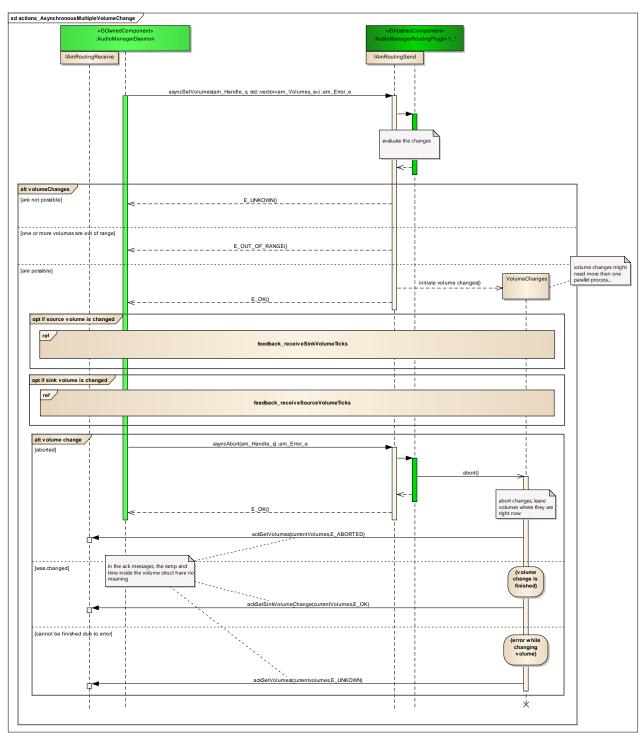


Figure: 21

VolumeChanges

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousMultipleVolumeChangeKeywords:Detail:Created on 29.11.2012. Last modified on 29.11.2012.GUID:{B7EAFC92-552E-4d40-9119-8B9B25A93E04}

Connections

| Connector | Source | Target | Notes |
|--|-------------------------|--------------------|-------|
| <u>NoteLink</u> | Public | Public | |
| | <anonymous></anonymous> | VolumeChanges | |
| | | | |
| Sequence initiate volume | Public | Public | |
| changes | IAmRoutingSend | VolumeChanges | |
| Source -> Destination | | | |
| Sequence abort | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | VolumeChanges | |
| | • | | |
| Sequence | Public | Public | |
| ackSetVolumes(am_Hand | VolumeChanges | IAmRoutingReceive | |
| le_s, | | | |
| std::vector <am_volumes_< td=""><td></td><td></td><td></td></am_volumes_<> | | | |
| s>, am_Error_e) | | | |
| Source -> Destination | | | |
| Sequence | Public | Public | |
| ackSetSinkVolumeChang | VolumeChanges | IAmRoutingReceive | |
| e(am_Handle_s, | | | |
| am_volume_t, | | | |
| am_Error_e) | | | |
| Source -> Destination | | | |
| Sequence | Public | Public | |
| ackSetVolumes(am_Hand | VolumeChanges | IAmRoutingReceive | |
| le_s, | . oranic changes | I Illitoumgreeoive | |
| std::vector <am td="" volumes<=""><td></td><td></td><td></td></am> | | | |
| s>, am_Error_e) | | | |
| Source -> Destination | | | |
| | | | |

feedback_receiveSinkVolumeTicks

Type: <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

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

feedback receiveSourceVolumeTicks

Type: <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousMultipleVolumeChangeKeywords: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_AsynchronousMultipleVolumeChangeKeywords: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_AsynchronousMultipleVolumeChangeKeywords:Detail:Created on 29.11.2012. Last modified on 29.11.2012.GUID:{78981C5A-ED31-4c67-B085-3590E536EDBC}

volume change

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:actions_AsynchronousMultipleVolumeChangeKeywords: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_AsynchronousMultipleVolumeChangeKeywords: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.

<u>actions AsynchronousConnect</u> - (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}

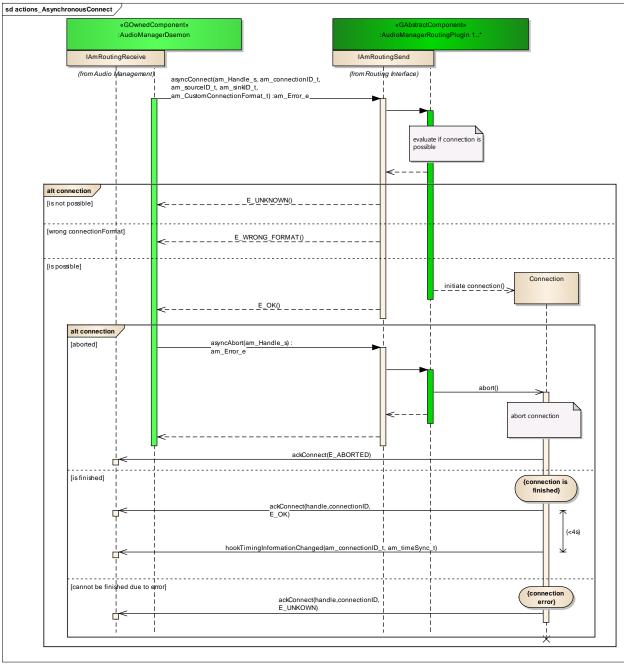


Figure: 22

Connection

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: actions_AsynchronousConnect 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 | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | Connection | |
| Sequence abort | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | Connection | |
| Sequence | Public | Public | |
| ackConnect(am_Handle_s , am_connectionID_t, am_Error_e) Source -> Destination | Connection | IAmRoutingReceive | |
| Sequence | Public | Public | |
| ackConnect(am_Handle_s , am_connectionID_t, am_Error_e) Source -> Destination | Connection | IAmRoutingReceive | |
| Sequence | Public | Public | |
| hookTimingInformationC hanged(am_connectionID _t, am_timeSync_t) Source -> Destination | Connection | IAmRoutingReceive | |
| Sequence | Public | Public | |
| ackConnect(am_Handle_s , am_connectionID_t, am_Error_e) Source -> Destination | Connection | IAmRoutingReceive | |

connection

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package: actions_AsynchronousConnect Keywords:

Detail: Created on 23.08.2011. Last modified on 23.08.2011. GUID: {1FD6A82A-B9BD-41d4-8302-C1D34549B92E}

connection

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package: actions_AsynchronousConnect Keywords:

Detail: Created on 23.08.2011. Last modified on 23.08.2011. GUID: {1C4140EF-4156-4d43-B9F0-FFB19B53A3A3}

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}

$\underline{setup} \ \ \underline{RoutingInterfaceReady} \ - \ (Interaction \ diagram)$

Created By: christian on 12.10.2011

Last Modified: 12.10.2011 Version: 1.0. Locked: False

GUID: {136091CE-3582-423b-AE8D-7D41D3367C2E}

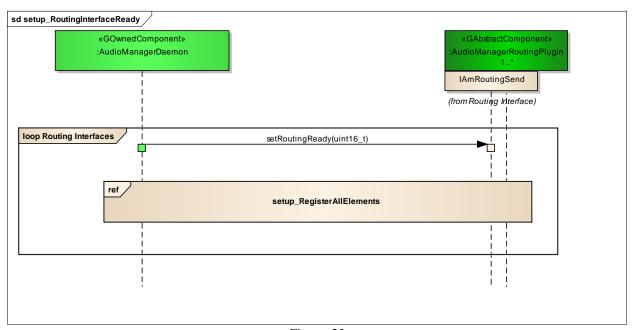


Figure: 23

Routing Interfaces

Type: <u>InteractionFragment</u>

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: <u>InteractionOccurrence</u>

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}

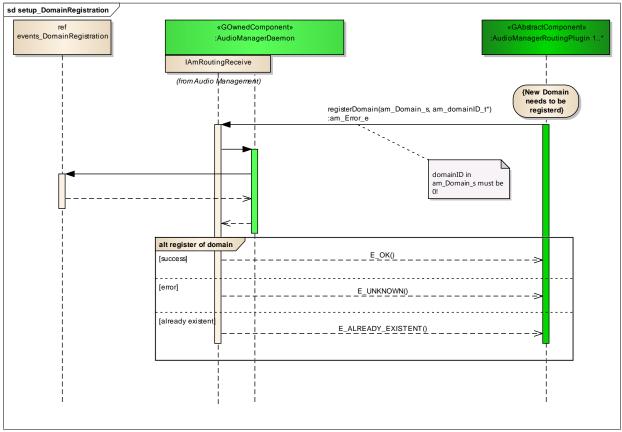


Figure: 24

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 |
|-----------------------|-------------------------|-------------------------|-------|
| Sequence | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | events_DomainRegistra | |
| | | tion | |
| | | | |
| <u>Sequence</u> | Public | Public | |
| Source -> Destination | events_DomainRegistra | <anonymous></anonymous> | |
| | tion | | |
| | | | |

register of domain

Type: <u>InteractionFragment</u>

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}

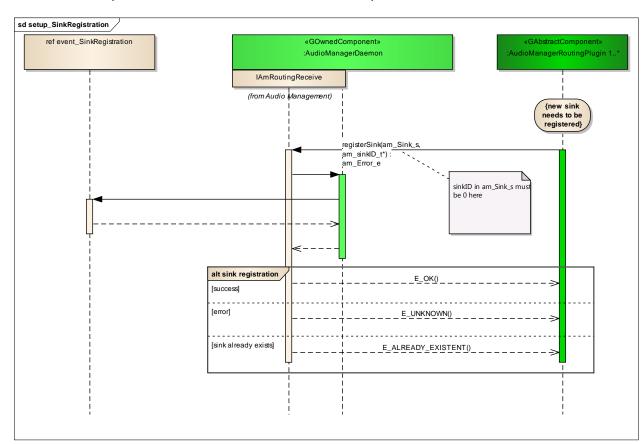


Figure: 25

event_SinkRegistration

Type: <u>InteractionOccurrence</u>

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 | |
| Source -> Destination | <anonymous></anonymous> | event_SinkRegistration | |
| | | | |
| <u>Sequence</u> | Public | Public | |
| Source -> Destination | event_SinkRegistration | <anonymous></anonymous> | |
| | | | |

sink registration

Type: <u>InteractionFragment</u>

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}

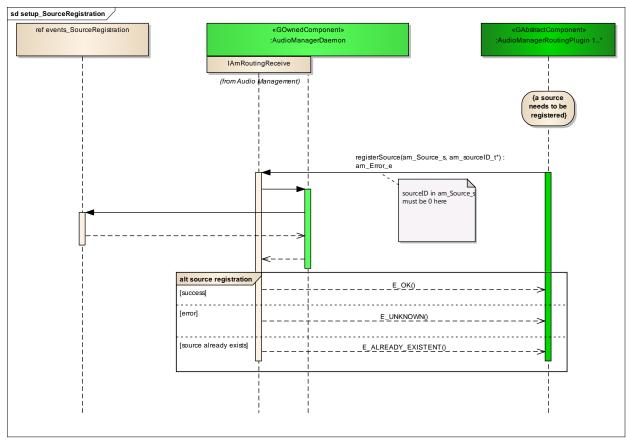


Figure: 26

events_SourceRegistration

Type: <u>InteractionOccurrence</u>

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> | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | events_SourceRegistrati | |
| | | on | |
| | | | |
| <u>Sequence</u> | Public | Public | |
| Source -> Destination | events_SourceRegistrati | <anonymous></anonymous> | |
| | on | | |
| | | | |

source registration

Type: <u>InteractionFragment</u>

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}

$\underline{setup_GatewayRegistration} \text{ - } (Interaction \ diagram)$

Created By: christian on 22.08.2011

Last Modified: 17.10.2011 Version: 1.0. Locked: False

GUID: {E239BDA1-FAEE-4205-86CE-13D2E89A20AE}

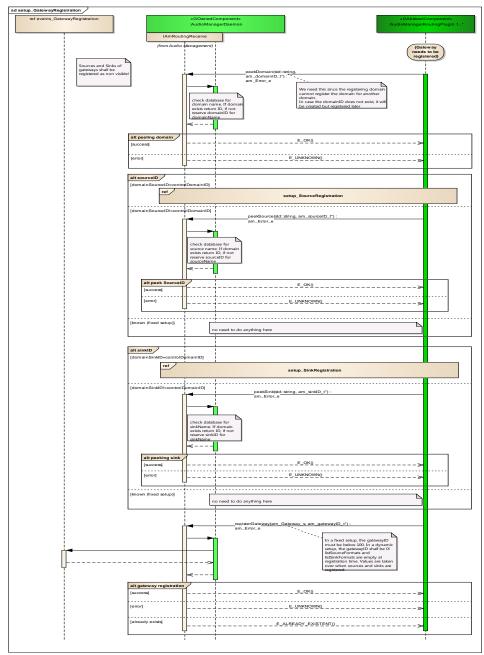


Figure: 27

events_GatewayRegistration

Type: <u>InteractionOccurrence</u>

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> | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | events_GatewayRegistr | |
| | | ation | |
| | | | |
| <u>Sequence</u> | Public | Public | |
| Source -> Destination | events_GatewayRegistr | <anonymous></anonymous> | |
| | ation | | |
| | | | |

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: <u>InteractionFragment</u>

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: <u>InteractionFragment</u>

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: <u>InteractionFragment</u>

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: <u>InteractionOccurrence</u>

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: <u>InteractionOccurrence</u>

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: <u>InteractionFragment</u>

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}

$\underline{setup\ CrossfaderRegistration}\ -\ (Interaction\ diagram)$

Created By: christian on 12.10.2011

Last Modified: 12.10.2011

Version: 1.0. Locked: False

GUID: {4B3931AF-6D14-44b5-A7EA-D9D4C86B4C4D}

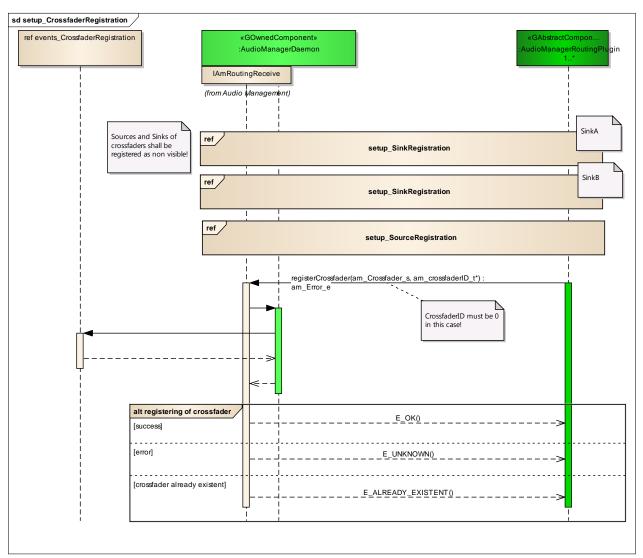


Figure: 28

events_CrossfaderRegistration

Type: <u>InteractionOccurrence</u>

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 |
|-----------------------|-------------------------|-------------------------|-------|
| <u>Sequence</u> | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | events_CrossfaderRegis | |
| | | tration | |
| | | | |
| <u>Sequence</u> | Public | Public | |
| Source -> Destination | events_CrossfaderRegis | <anonymous></anonymous> | |
| | tration | | |
| | | | |

registering of crossfader

Type: <u>InteractionFragment</u>

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: <u>InteractionOccurrence</u>

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: <u>InteractionOccurrence</u>

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}

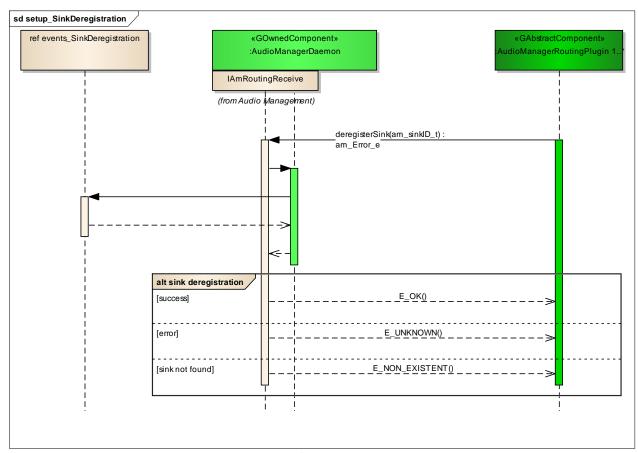


Figure: 29

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 |
|-----------------------|-------------------------|-------------------------|-------|
| Sequence | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | events_SinkDeregistrati | |
| | | on | |
| | | | |
| <u>Sequence</u> | Public | Public | |
| Source -> Destination | events_SinkDeregistrati | <anonymous></anonymous> | |
| | on | | |
| | | | |

sink deregistration

Type: <u>InteractionFragment</u>

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}

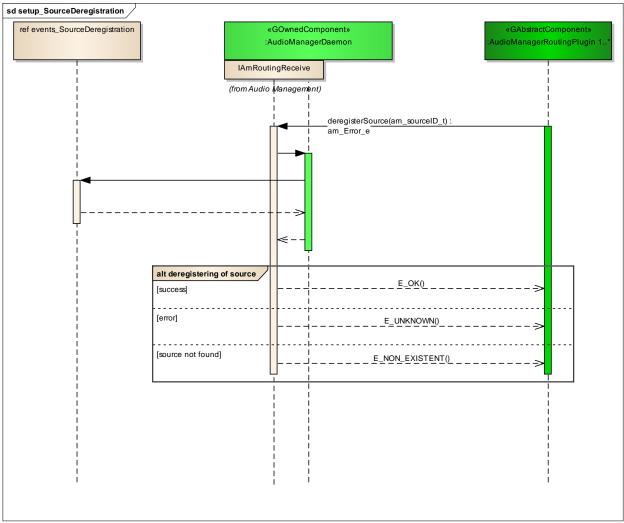


Figure: 30

deregistering of source

Type: <u>InteractionFragment</u>

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: <u>InteractionOccurrence</u>

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 |
|-----------------------|-------------------------|-------------------------|-------|
| Sequence | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | events_SourceDeregistr | |
| | | ation | |
| | | | |
| <u>Sequence</u> | Public | Public | |
| Source -> Destination | events_SourceDeregistr | <anonymous></anonymous> | |
| | ation | | |
| | | | |

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}

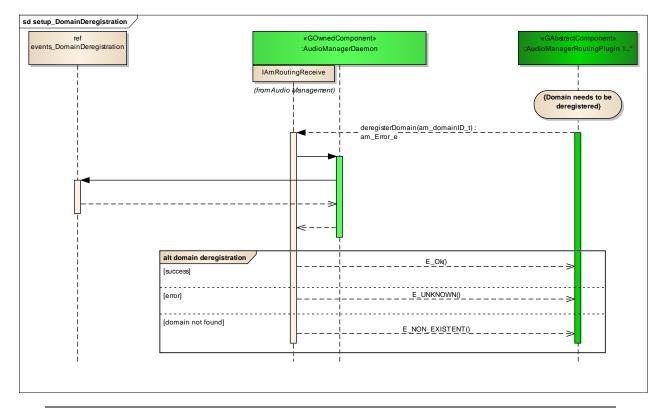


Figure: 31

domain deregistration

Type: <u>InteractionFragment</u>

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: <u>InteractionOccurrence</u>

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> | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | events_DomainDeregist | |
| | | ration | |
| | | | |
| <u>Sequence</u> | Public | Public | |
| Source -> Destination | events_DomainDeregist | <anonymous></anonymous> | |
| | ration | | |
| | | | |

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}

$\underline{setup} \ \ \underline{Gateway Deregistration} \ - \ (Interaction \ diagram)$

Created By: christian on 13.09.2011

Last Modified: 12.10.2011 Version: 1.0. Locked: False

GUID: {7B4E60BD-B3EA-4713-B932-4E0579D7616D}

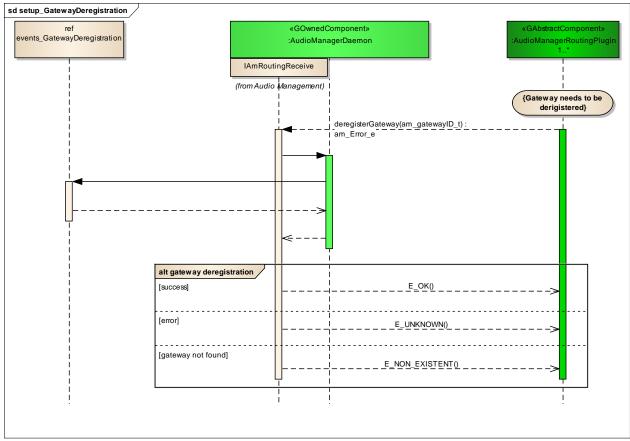


Figure: 32

events_GatewayDeregistration

Type: <u>InteractionOccurrence</u>

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 |
|-----------------------|-------------------------|-------------------------|-------|
| Sequence | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | events_GatewayDeregis | |
| | | tration | |
| | | | |
| <u>Sequence</u> | Public | Public | |
| Source -> Destination | events_GatewayDeregis | <anonymous></anonymous> | |
| | tration | | |
| | | | |

gateway deregistration

Type: <u>InteractionFragment</u>

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}

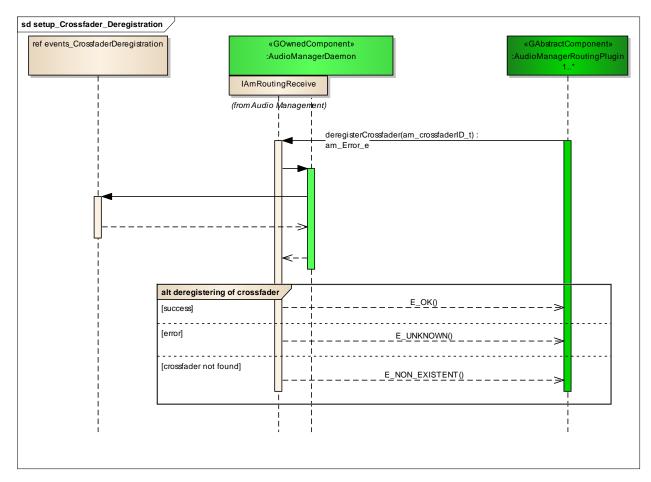


Figure: 33

deregistering of crossfader

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:setup_Crossfader_DeregistrationKeywords:Detail:Created on 12.10.2011. Last modified on 12.10.2011.GUID:{4362610A-6FD6-4390-A9E8-442CE16A2B39}

events_CrossfaderDeregistration

Type: <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:setup_Crossfader_DeregistrationKeywords: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> | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | events_CrossfaderDere | |
| | | gistration | |
| | | | |
| <u>Sequence</u> | Public | Public | |
| Source -> Destination | events_CrossfaderDere | <anonymous></anonymous> | |
| | gistration | | |
| | | | |

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}

<u>setup LoadPlugins</u> - (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}

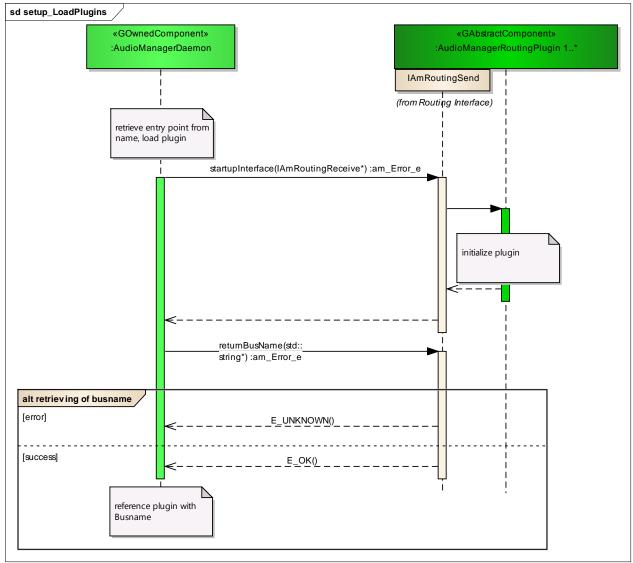


Figure: 34

retrieving of busname

Type: <u>InteractionFragment</u>

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}

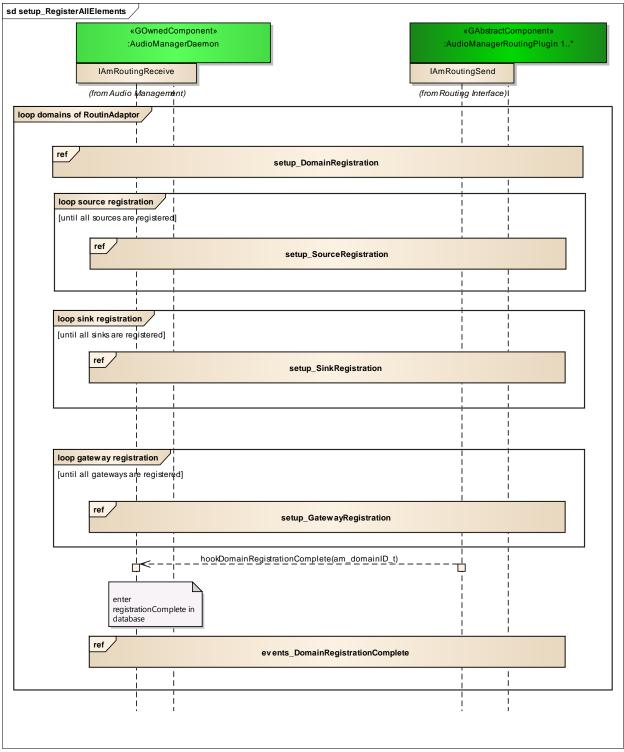


Figure: 35

domains of RoutinAdaptor

Type: <u>InteractionFragment</u>

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: <u>InteractionOccurrence</u>

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: <u>InteractionFragment</u>

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: <u>InteractionOccurrence</u>

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: <u>InteractionFragment</u>

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: <u>InteractionFragment</u>

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}

<u>setup_Startup</u> - (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}

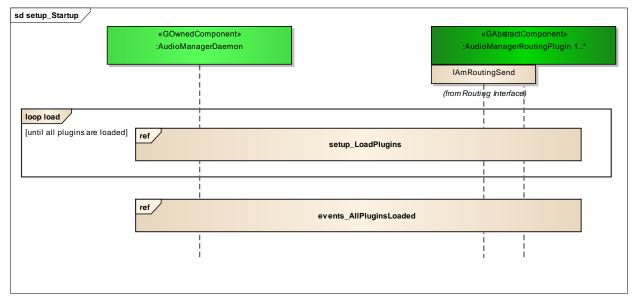


Figure: 36

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: <u>InteractionFragment</u>

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: <u>InteractionOccurrence</u>

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}

$\underline{setup\ UpdateSourceData}\ \hbox{-}\ (Interaction\ diagram)$

Created By: q232968 on 28.06.2012

Last Modified: 05.02.2013 Version: 1.0. Locked: False

GUID: {DBE9D087-3356-4ad5-9CD4-F279D4A9BBF0}

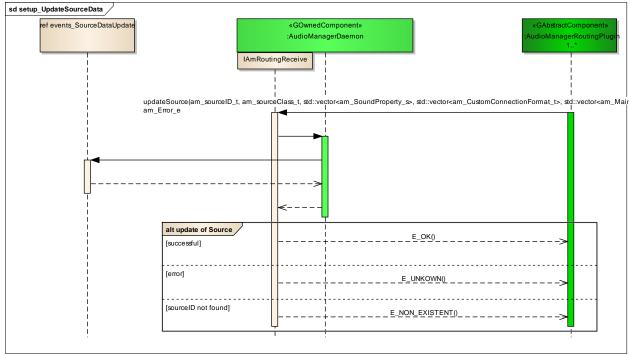


Figure: 37

events_SourceDataUpdate

Type: <u>InteractionOccurrence</u>

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 |
|-----------------------|-------------------------|-------------------------|-------|
| Sequence | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | events_SourceDataUpd | |
| | | ate | |
| | | | |
| <u>Sequence</u> | Public | Public | |
| Source -> Destination | events_SourceDataUpd | <anonymous></anonymous> | |
| | ate | | |
| | | | |

events_SourceDataUpdate

Type: <u>InteractionOccurrence</u>

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}

<u>setup_UpdateSink</u> - (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}

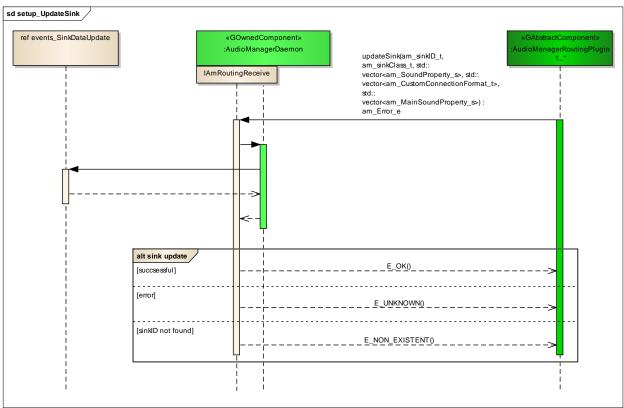


Figure: 38

events_SinkDataUpdate

Type: <u>InteractionOccurrence</u>

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 |
|-----------------------|-------------------------|-------------------------|-------|
| Sequence | Public | Public | |
| Source -> Destination | <anonymous></anonymous> | events_SinkDataUpdate | |
| | | | |
| <u>Sequence</u> | Public | Public | |
| Source -> Destination | events_SinkDataUpdate | <anonymous></anonymous> | |
| | | | |

sink update

Type: <u>InteractionFragment</u>

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}

 $\underline{setup_UpdateGateway} \ \hbox{-} \ (Interaction \ diagram)$

Created By: q232968 on 29.06.2012

Last Modified: 27.11.2012 Version: 1.0. Locked: False

GUID: {15BAAB28-904E-44a9-B212-4FF9D113EFC0}

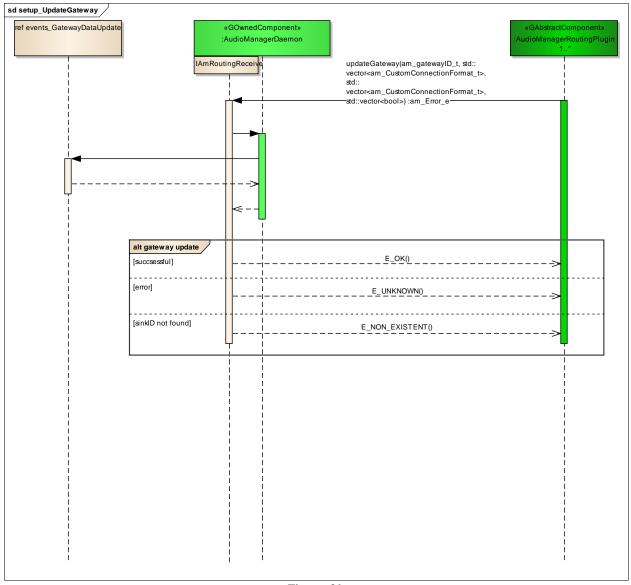


Figure: 39

events_GatewayDataUpdate

InteractionOccurrence Type:

Status: Proposed. Version 1.0. Phase 1.0. Package:

setup_UpdateGateway Keywords: Created on 29.06.2012. Last modified on 29.06.2012. Detail: GUID: {1EE37937-629F-44af-A1EE-518892F3DABC}

Connections

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

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

events_SinkDataUpdate

Type: <u>InteractionOccurrence</u>

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: <u>InteractionFragment</u>

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}

8 Headers

8.1 IAmRouting

```
/**
 * Copyright (C) 2012 - 2014, 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 Linke, christian.linke@bmw.de BMW 2011 - 2014
 * \file
 * For further information see http://projects.genivi.org/audio-manager
 * THIS CODE HAS BEEN GENERATED BY ENTERPRISE ARCHITECT GENIVI MODEL.
 * PLEASE CHANGE ONLY IN ENTERPRISE ARCHITECT AND GENERATE AGAIN.
 * /
#if !defined(EA 6B9C54C0 2366 4139 97CF 28563364DACA INCLUDED)
#define EA_6B9C54C0_2366_4139_97CF_28563364DACA__INCLUDED_
#include <vector>
#include <string>
#include "audiomanagertypes.h"
namespace am {
class CAmDbusWrapper;
class CAmSocketHandler;
#include "audiomanagertypes.h"
#define RoutingVersion "4.0"
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
 ^{\star} which also helps to implement calls that are forbidden.\n
 * For more information, please check CAmSerializer
class IAmRoutingReceive
public:
       IAmRoutingReceive() {
       }
       virtual ~IAmRoutingReceive() {
       }
        ^{\star} This function returns the version of the interface
       virtual void getInterfaceVersion(std::string& version) const =0;
        * acknowledges a asyncConnect
       virtual void ackConnect(const am Handle s handle, const am connectionID t connectionID,
const am_Error_e error) =0;
       /**
        * acknowledges a asyncDisconnect
       virtual void ackDisconnect(const am Handle s handle, const am connectionID t
connectionID, const am Error e error) =0;
        * acknowledges a asyncsetSinkVolume
       virtual void ackSetSinkVolumeChange(const am_Handle_s handle, const am_volume_t volume,
const am_Error_e error) =0;
       /**
```

```
* acknowledges a asyncsetSourceVolume
       virtual void ackSetSourceVolumeChange(const am Handle s handle, const am volume t volume,
const am Error e error) =0;
        * acknowlegde for asyncSetSourceState
       virtual void ackSetSourceState(const am Handle s handle, const am Error e error) =0;
        * acknowledges asyncSetSinkSoundProperties
       virtual void ackSetSinkSoundProperties(const am Handle s handle, const am Error e error)
=0;
       /**
        * acknowledges asyncSetSinkSoundProperty
       virtual void ackSetSinkSoundProperty(const am_Handle_s handle, const am_Error_e error)
=∩•
       /**
        \hbox{\tt * acknowledges asyncSetSourceSoundProperties}
       virtual void ackSetSourceSoundProperties(const am Handle s handle, const am Error e
error) = 0:
       /**
        * acknowledges asyncSetSourceSoundProperty
       virtual void ackSetSourceSoundProperty(const am Handle s handle, const am Error e error)
=0;
       /**
        * acknowledges asyncCrossFade
       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
       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
        */
       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
       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
       virtual am Error e registerDomain(const am Domain s& domainData, am domainID) t& domainID)
=0:
        ^{\star} 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
        * /
       virtual am Error e deregisterDomain(const am domainID t domainID) =0;
        * registers a converter. @return E OK on succes, E ALREADY EXISTENT if already
        * registered E UNKOWN on error
       virtual am Error e registerConverter(const am Converter s& converterData,
am converterID t& converterID) =0;
        * registers a gateway. @return E OK on succes, E ALREADY EXISTENT if already
        * registered E UNKOWN on error
       virtual am Error e registerGateway(const am Gateway s& gatewayData, am gatewayID t&
gatewayID) =0;
       /**
        * deregisters a converter. Also removes all sinks and sources of the controlling
        * @return E OK on succes, E NON EXISTENT if not found E UNKOWN on error
       virtual am Error e deregisterConverter(const am converterID t converterID) =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
       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
        \star 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
        * /
       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
       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
       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
       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
        * /
       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
        * /
       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
        */
       virtual am Error e registerCrossfader(const am Crossfader s& crossfaderData,
am_crossfaderID_t& crossfaderID) =0;
       /**
```

```
^{\star} this function deregisters a crossfader. removes all sources and sinks assiated
        * @return E OK on succes, E NON EXISTENT if not found E UNKOWN on error
       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
       virtual am Error e peekSourceClassID(const std::string& name, am sourceClass t&
sourceClassID) =0;
        ^{\star} 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
        * /
       virtual am Error e peekSinkClassID(const std::string& name, am sinkClass t& sinkClassID)
=0;
       /**
        * is called when a low level interrupt changes it status.
       virtual void hookInterruptStatusChange(const am sourceID t sourceID, const
am InterruptState e interruptState) =0;
        \star 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
       virtual void hookDomainRegistrationComplete(const am domainID t domainID) =0;
        * is called when a sink changes its availability
       virtual void hookSinkAvailablityStatusChange(const am sinkID t sinkID, const
am Availability s& availability) =0;
       /**
        * is called when a source changes its availability
       virtual void hookSourceAvailablityStatusChange(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
       virtual void hookDomainStateChange(const am domainID t domainID, const am DomainState e
domainState) =0;
        * is called when the timinginformation (delay) changed for a connection.
```

```
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
       virtual void sendChangedData(const std::vector<am EarlyData s>& earlyData) =0;
        * this function is used to retrieve a pointer to the dBusConnectionWrapper
        * @return E OK if pointer is valid, E UKNOWN if AudioManager was compiled without
        * DBus Support
        * /
       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,
        * /
       virtual am Error e getSocketHandler(CAmSocketHandler*& socketHandler) const =0;
        * confirms the setRoutingReady Command
       virtual void confirmRoutingReady(const uint16_t handle, const am_Error_e error) =0;
       /**
        * confirms the setRoutingRundown Command
       virtual void confirmRoutingRundown(const uint16 t handle, const am Error e error) =0;
        ^{\star} updates data of an converter. @return E_OK on success, E NON EXISTENT if the
        * gatewayID is not valid.
        * /
       virtual am Error e updateConverter(const am converterID t converterID, const
std::vector<am CustomConnectionFormat t>& listSourceFormats, const
std::vector<am_CustomConnectionFormat_t>& listSinkFormats, const std::vector<bool>&
convertionMatrix) =0;
        * updates data of an gateway. @return E OK on success, E NON EXISTENT if the
        * gatewayID is not valid.
       virtual am_Error_e updateGateway(const am_gatewayID_t gatewayID, const
std::vector<am_CustomConnectionFormat_t>& listSourceFormats, const
std::vector<am_CustomConnectionFormat_t>& listSinkFormats, const std::vector<bool>&
convertionMatr\overline{i}x) =0;
```

```
* updates data of an gateway. @return E OK on success, E NON EXISTENT if the
        * sinkID is not valid.
       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_CustomConnectionFormat_t>& 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.
        ^{\star} Please note that only the following data out of am Source s have effect when
         * they are changed:
        * sourceClassID,
        * listSoundProperties,
         * listConnectionFormats,
        * 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_CustomConnectionFormat_t>& listConnectionFormats, const
std::vector<am MainSoundProperty s>& listMainSoundProperties) =0;
        * acknowledges a asyncSetSinkVolumes
       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
       virtual void ackSinkNotificationConfiguration(const am Handle s handle, const am Error e
error) =0;
        ^{\star} The acknowledge of the SourceNotificationConfiguration
       virtual void ackSourceNotificationConfiguration(const am Handle s handle, const
am Error e error) =0;
       /**
        * is called whenever a notified value needs to be send
       virtual void hookSinkNotificationDataChange(const am_sinkID_t sinkID, const
am_NotificationPayload_s& payload) =0;
         * is called whenever a notified value needs to be send
       virtual void hookSourceNotificationDataChange(const am sourceID t sourceID, const
am_NotificationPayload_s& payload) =0;
        * E OK in case of success
```

```
*/
       virtual am Error e getDomainOfSink(const am sinkID t sinkID, am domainID) t& domainID)
const =0:
        * E OK in case of success
       virtual am Error e getDomainOfSource(const am sourceID t sourceID, am domainID t&
domainID) const =0;
        * E OK in case of success
        * /
       virtual am_Error_e getDomainOfCrossfader(const am_crossfaderID_t crossfader,
am domainID t& domainID) const = 0;
};
 * 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
class IAmRoutingSend
public:
       IAmRoutingSend() {
       }
       virtual ~IAmRoutingSend() {
       }
       /**
        * This function returns the version of the interface
       virtual void getInterfaceVersion(std::string& version) const =0;
```

```
^{\star} starts up the interface. In the implementations, here is the best place for
        * init routines.
       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...
        * /
       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.
       virtual void setRoutingRundown(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
        * /
       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
       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 CustomConnectionFormat t 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
       virtual am Error e asyncDisconnect(const am Handle s handle, const am connectionID t
connectionID) =0;
        \star 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
        */
       virtual am_Error_e asyncSetSinkVolume(const am_Handle_s handle, const am_sinkID_t sinkID,
const am volume_t volume, const am_CustomRampType_t 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
       virtual am Error e asyncSetSourceVolume(const am Handle s handle, const am sourceID t
sourceID, const am volume t volume, const am CustomRampType t 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
       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 propery
        * value is out of range
        * /
       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 propery
        * value is out of range
       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 propery
        * value is out of range
       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 propery
        * value is out of range
       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
        */
```

```
virtual am Error e asyncCrossFade(const am Handle s handle, const am crossfaderID t
crossfaderID, const am HotSink e hotSink, const am CustomRampType t rampType, const am time t
time) =0;
        ^{\star} this function is used for early and late audio functions to set the domain
        * @return E_OK on success, E_UNKNOWN on error
       virtual am_Error_e setDomainState(const am_domainID_t domainID, const am_DomainState_e
domainState) = 0;
        ^{\star} this method is used to retrieve the busname during startup of the plugin. Needs
        \star to be implemented
        * @return E_OK on success, E_UNKNOWN on error
       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.
        ^{\star} @return E OK on success, E UNKNOWN on error.
       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.
        */
       virtual am Error e asyncSetSinkNotificationConfiguration(const am Handle s handle, const
am_sinkID_t sinkID, const am_NotificationConfiguration_s& notificationConfiguration) =0;
       /**
        \mbox{\scriptsize \star} sets the notification configuration of a source.
        * @return E_OK on success, E_UNKNOWN on error.
        */
       virtual am Error e asyncSetSourceNotificationConfiguration(const am Handle s handle,
const am sourceID t sourceID, const am NotificationConfiguration s& notificationConfiguration)
=0;
};
#endif // !defined(EA 6B9C54C0 2366 4139 97CF 28563364DACA INCLUDED )
```