

## **GENIVI Alliance**

# GENIVI Document IAmCommandPlugin

# Platform Compliance Specification

Version 2.0

Status: Published

#### Sponsored by:

**GENIVI Alliance** 

#### Accepted for release by:

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#### Abstract:

This document is the GENIVI platform compliance specification.

**Keywords: GENIVI** 

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# 1 Introduction

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

# 2 Change History

The following table shows the change history for this specification:

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

# 3 Targeted Audience

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

# 4 Categories

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

#### • Standards

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

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

# 5 Abbreviations

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

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

# 6 Format of the entries in this document

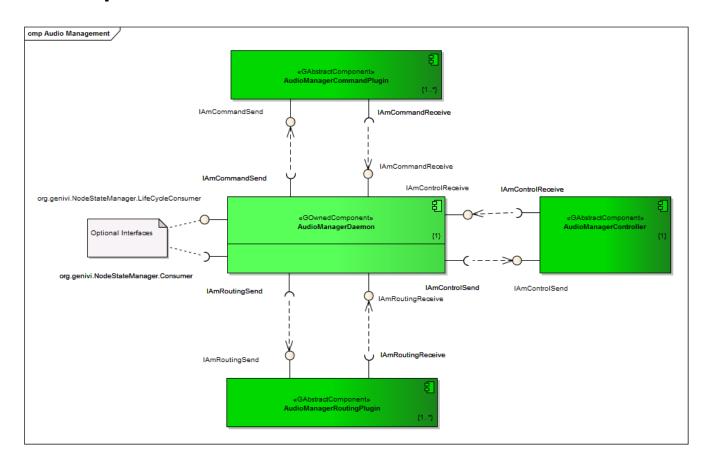
The entries pertaining to components have the following format:

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

# 7 Standards

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

# **8 Component Overview**



# **Component Interaction**

### 9.1 User Interaction

### c\_User\_Initiated\_Connection

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

**User Interaction** Package:

Created on 16.08.2011. Last modified on 06.10.2011 Detail: GUID: {70025314-679D-4a4b-9708-C9A0837510A8}

### <u>c\_User\_Initiated\_Connection</u> - (Interaction diagram)

christian on 16.08.2011 Created By:

Last Modified: 24.10.2011

1.0. Locked: False Version:

{95B56152-5783-40a5-8B40-F666E90907F1} GUID:

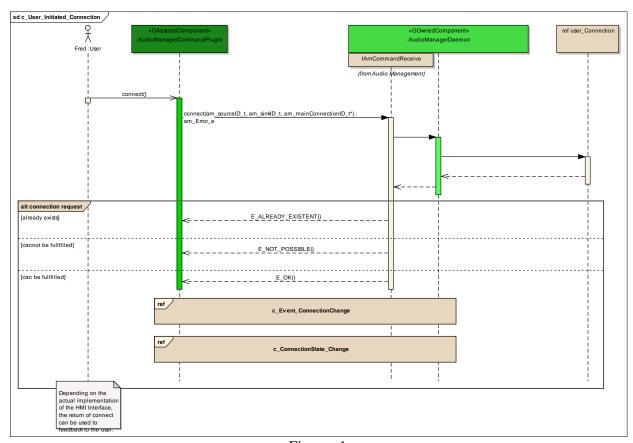


Figure: 1

### c\_ConnectionState\_Change

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_Connection Keywords:

Detail: Created on 12.09.2011. Last modified on 12.09.2011. GUID: {7752FC0B-0EB6-46ec-A349-AE6A9D03AEBB}

## c\_Event\_ConnectionChange

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_Connection Keywords:

Detail: Created on 12.09.2011. Last modified on 06.10.2011. GUID: {17D9B340-2582-4323-878D-DEF9ECE8832C}

### connection request

*Type:* <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_Connection Keywords:

Detail: Created on 16.08.2011. Last modified on 17.08.2011. GUID: {7B680C24-80AA-451e-AC6A-FA45B3EC5417}

#### user Connection

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_Connection Keywords:

Detail: Created on 16.08.2011. Last modified on 07.10.2011. GUID: {7CD76924-6596-463a-B2B4-C99E83E9354C}

#### **Connections**

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

## c\_User\_Initiated\_Disconnection

Type: **Package** 

Reworked. Version 1.0. Phase 1.0. Status:

**User Interaction** Package:

Created on 17.08.2011. Last modified on 06.10.2011 Detail: GUID: {63DBF2AE-8055-4fe9-A255-A91D1D1E2B7F}

## **<u>c\_User\_Initiated\_Disconnection</u>** - (Interaction diagram)

christian on 17.08.2011 Created By:

24.10.2011 Last Modified:

1.0. Locked: False Version:

GUID: {88B0729B-1788-4147-9A2C-F1E38092A9FF}

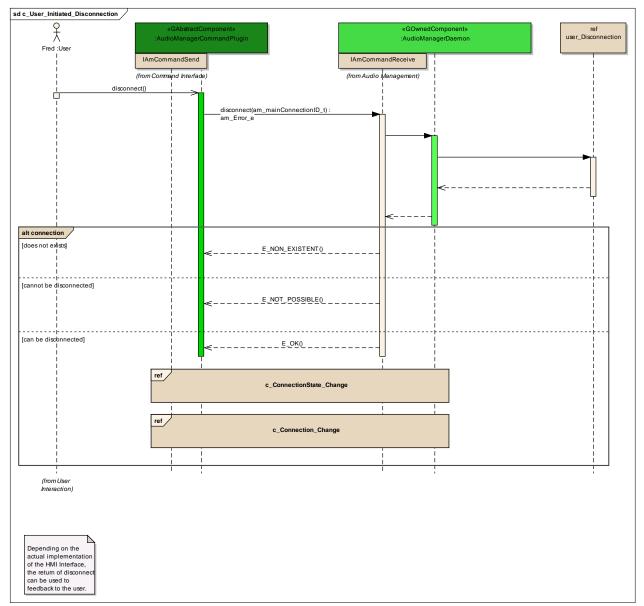


Figure: 2

# c\_ConnectionState\_Change

*Type:* <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_Disconnection Keywords:

Detail: Created on 12.09.2011. Last modified on 12.09.2011. GUID: {D2D79E77-5ACA-4638-B582-0373643F19E5}

### c\_Connection\_Change

Type: InteractionOccurrence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_Disconnection Keywords:

Detail: Created on 12.09.2011. Last modified on 12.09.2011. GUID: {B5F9C12E-30A3-4ee4-AE9F-60A66D6AF25B}

#### connection

Type: InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_Disconnection Keywords:

Detail: Created on 17.08.2011. Last modified on 17.08.2011. GUID: {2D9585D6-B028-4b7d-B538-AB978DBAB7CA}

### user\_Disconnection

*Type:* <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_Disconnection Keywords:

Detail: Created on 17.08.2011. Last modified on 07.10.2011. GUID: {A8528E3B-B09C-4b74-9143-DEFCDCDC64A4}

#### **Connections**

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

## c\_User\_Initiated\_MuteStateChange

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: User Interaction

Detail: Created on 22.09.2011. Last modified on 06.10.2011 GUID: {313A0836-A2D7-4110-8815-B3A5C2B55687}

#### <u>c\_User\_Initiated\_MuteStateChange</u> - (Interaction diagram)

Created By: christian on 22.09.2011

*Last Modified:* 24.10.2011

Version: 1.0. Locked: False

GUID: {DD57EC5A-3E58-443e-9DF0-9A006AE4513C}

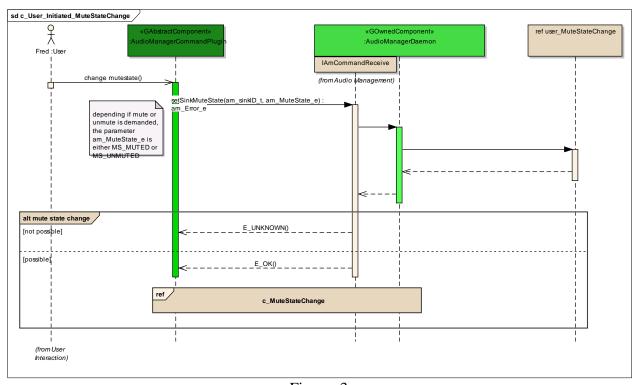


Figure: 3

## c\_MuteStateChange

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_MuteStateChange Keywords:

*Detail:* Created on 22.09.2011. Last modified on 22.09.2011.

GUID: {FF0C380D-F8EF-4542-B307-0BB1437A8D47}

### mute state change

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_MuteStateChange Keywords:

Detail: Created on 22.09.2011. Last modified on 22.09.2011. GUID: {2379DFC7-C3EF-47e9-B7AF-AAC2BAA83899}

### user\_MuteStateChange

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_MuteStateChange Keywords:

Detail: Created on 22.09.2011. Last modified on 07.10.2011. GUID: {73AD2CFF-7EAE-4382-B913-35233983459D}

#### **Connections**

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

# c\_User\_Initiated\_AbsoluteVolumeChange

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: User Interaction

Detail: Created on 17.08.2011. Last modified on 06.10.2011 GUID: {22E3E917-BF4E-4eb2-BC59-3DFECDA9AEE2}

#### <u>c\_User\_Initiated\_AbsoluteVolumeChange</u> - (Interaction diagram)

Created By: christian on 17.08.2011

*Last Modified:* 24.10.2011

*Version:* 1.0. *Locked:* False

GUID: {94DC5166-2203-433e-B25D-92E85B567878}

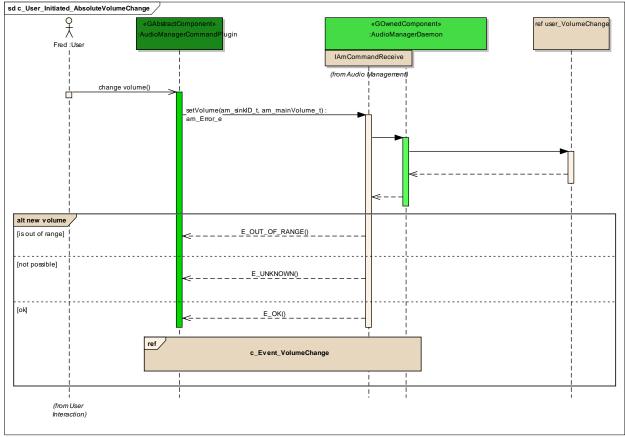


Figure: 4

## c\_Event\_VolumeChange

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_AbsoluteVolumeChange Keywords:
Detail: Created on 12.09.2011. Last modified on 07.10.2011.

GUID: {055D869F-6F23-4e03-8172-A1F770B90506}

#### new volume

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_AbsoluteVolumeChange Keywords:

Detail: Created on 17.08.2011. Last modified on 17.08.2011.

GUID: {2330569F-E7C9-45a9-9065-99C074549140}

### user\_VolumeChange

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_User\_Initiated\_AbsoluteVolumeChangeKeywords:Detail:Created on 17.08.2011. Last modified on 07.10.2011.GUID:{9AC84A6A-A6B9-4ea9-A948-04B7EDAE6988}

#### **Connections**

Connector	Source	Target	Notes
Sequence	Public	Public	
Source -> Destination	<anonymous></anonymous>	user_VolumeChang	
		e	
<b>Sequence</b>	Public	Public	
Source -> Destination	user_VolumeChang	<anonymous></anonymous>	
	e		

# c\_User\_Initiated\_RelativeVolumeChange

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: User Interaction

Detail: Created on 06.10.2011. Last modified on 06.10.2011 GUID: {D80A962F-A633-4246-A62F-35114D54F02E}

### <u>c\_User\_Initiated\_RelativeVolumeChange</u> - (Interaction diagram)

Created By: christian on 06.10.2011

*Last Modified:* 24.10.2011

*Version:* 1.0. *Locked:* False

GUID: {A43A298D-6B17-4a64-9D18-C70E252504F1}

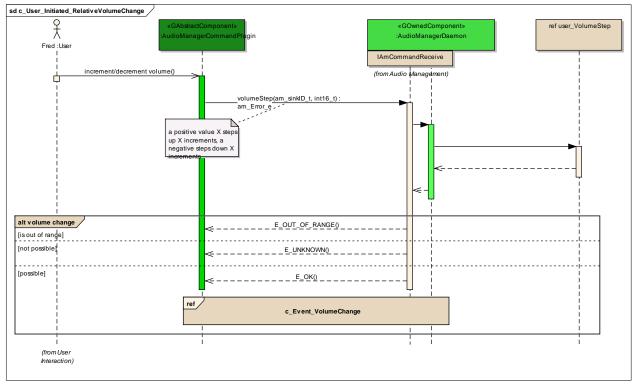


Figure: 5

### c\_Event\_VolumeChange

Type: <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_User\_Initiated\_RelativeVolumeChangeKeywords:Detail:Created on 06.10.2011. Last modified on 07.10.2011.GUID:{D61ED1BC-40DE-4dd9-A7FA-8194DD0E8A75}

### user\_VolumeStep

*Type:* <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_RelativeVolumeChange Keywords:
Detail: Created on 06.10.2011. Last modified on 07.10.2011.
GUID: {A0C5C391-E4D4-4c9b-98E1-ECAD2ABA4B61}

#### **Connections**

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

### volume change

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_User\_Initiated\_RelativeVolumeChangeKeywords:Detail:Created on 06.10.2011. Last modified on 06.10.2011.GUID:{04E2C2B7-7AFE-4360-B63B-61CB664BB93B}

# c\_User\_Initiated\_SourceSoundPropertyChange

*Type:* Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: User Interaction

Detail: Created on 12.09.2011. Last modified on 06.10.2011 GUID: {F9684481-DF94-452a-893F-D5FAEE6E3630}

### $\underline{c\_User\_Initiated\_SourceSoundPropertyChange} - (\mathit{Interaction\ diagram})$

Created By: christian on 12.09.2011

*Last Modified:* 24.10.2011

*Version:* 1.0. *Locked:* False

GUID: {AC6E81FC-3A19-45d3-AEEB-546E7F4A2664}

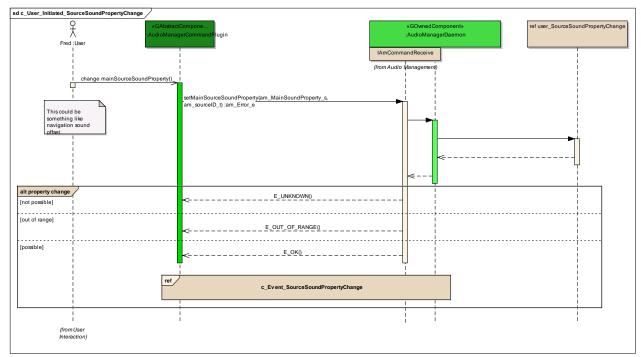


Figure: 6

## c\_Event\_SourceSoundPropertyChange

Type: InteractionOccurrence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_SourceSoundPropertyChange Keywords:
Detail: Created on 12.09.2011. Last modified on 07.10.2011.
GUID: {61ACC93A-DFB4-420e-A047-CB82B5A9A149}

#### property change

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_User\_Initiated\_SourceSoundPropertyChangeKeywords:Detail:Created on 12.09.2011. Last modified on 12.09.2011.GUID:{C1DCEF6A-E84B-46b5-8B83-F62B55A85B91}

### user\_SourceSoundPropertyChange

**InteractionOccurrence** Type:

Proposed. Version 1.0. Phase 1.0. Status:

c\_User\_Initiated\_SourceSoundPropertyChange Keywords: Package: Created on 12.09.2011. Last modified on 07.10.2011. Detail:

{C11B28BE-50AE-4255-9160-5B7642A437B5} GUID:

#### **Connections**

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

# c\_User\_Initiated\_SinkSoundPropertyChange

Package Type:

Reworked. Version 1.0. Phase 1.0. Status:

**User Interaction** Package:

Created on 12.09.2011. Last modified on 06.10.2011 Detail: GUID: {AE8449C5-4198-4c6d-BDC3-48D43A9EB6D1}

#### <u>c\_User\_Initiated\_SinkSoundPropertyChange</u> - (Interaction diagram)

christian on 12.09.2011 Created By:

Last Modified: 24.10.2011

1.0. Locked: False Version:

{C76F660C-28B8-4cd4-818C-2C3B832710AA} GUID:

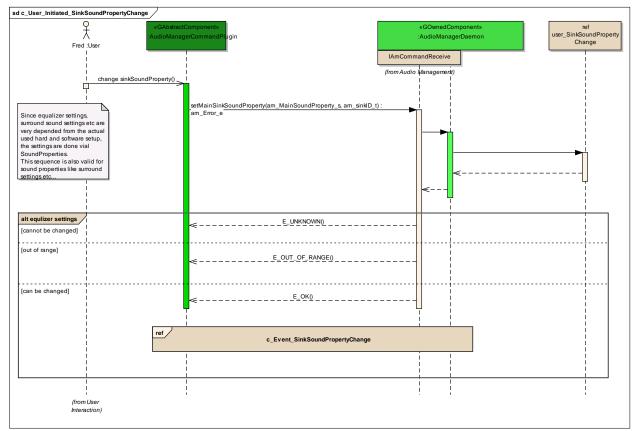


Figure: 7

# c\_Event\_SinkSoundPropertyChange

Type: InteractionOccurrence

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_User\_Initiated\_SinkSoundPropertyChangeKeywords:Detail:Created on 12.09.2011. Last modified on 07.10.2011.GUID:{CE7A2B37-A1A2-49e6-91A4-D1215E303899}

# equlizer settings

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_User\_Initiated\_SinkSoundPropertyChangeKeywords:Detail:Created on 12.09.2011. Last modified on 12.09.2011.GUID:{8010BFF9-7DF4-439f-BF56-95F342C86405}

### user\_SinkSoundProperty Change

**InteractionOccurrence** Type:

Proposed. Version 1.0. Phase 1.0. Status:

c\_User\_Initiated\_SinkSoundPropertyChange Package: Keywords: Created on 12.09.2011. Last modified on 07.10.2011. Detail: {0CF14F1B-626B-4559-8D7D-C9A3496DE42F} GUID:

#### **Connections**

Connector	Source	Target	Notes
Source -> Destination	Public <anonymous></anonymous>	Public user_SinkSoundPro	
	·	perty Change	
Source -> Destination	Public user_SinkSoundPro perty Change	Public <anonymous></anonymous>	

# c\_User\_Initiated\_SystemPropertyChange

Type: **Package** 

Reworked. Version 1.0. Phase 1.0. Status:

**User Interaction** Package:

Created on 06.10.2011. Last modified on 06.10.2011 Detail: {2B5813F8-0C9E-4af3-8AB2-9BD06B1B0C7E} GUID:

### <u>c\_User\_Initiated\_SystemPropertyChange</u> - (Interaction diagram)

Created By: christian on 06.10.2011

24.10.2011 Last Modified:

Version: 1.0. *Locked:* False

{0A69047E-7BA5-444a-A274-4A81174A80A2} *GUID*:

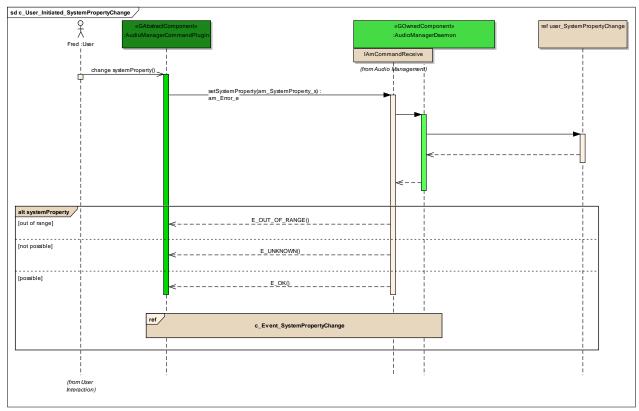


Figure: 8

## c\_Event\_SystemPropertyChange

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_User\_Initiated\_SystemPropertyChange Keywords:
Detail: Created on 06.10.2011. Last modified on 06.10.2011.
GUID: {245E2B64-FC22-4ac3-A593-0C7EB6177095}

# systemProperty

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_User\_Initiated\_SystemPropertyChangeKeywords:Detail:Created on 06.10.2011. Last modified on 06.10.2011.GUID:{F0F3EDBD-8D09-41d6-9B71-59664C1E0730}

## user\_SystemPropertyChange

*Type:* <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_User\_Initiated\_SystemPropertyChangeKeywords:Detail:Created on 06.10.2011. Last modified on 07.10.2011.GUID:{72C5D8C1-4CEB-48ec-91A3-9215F366C36C}

#### **Connections**

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

# 9.2 System Interaction

*Type:* Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Command Interface

Detail: Created on 23.09.2011. Last modified on 07.10.2011 GUID: {E6613093-2F0C-44a5-9AFA-AE0654D1F893}

# $c\_System\_Change Main Sink Notification Configuration\\$

*Type:* Package

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Interaction

Detail: Created on 29.01.2013. Last modified on 29.01.2013

GUID: {DD8E4670-8D41-4072-9D1F-E0F317785B4B}

### **<u>c\_System\_ChangeMainSinkNotificationConfiguration</u>** - (Interaction diagram)

Created By: q232968 on 29.01.2013

*Last Modified:* 29.01.2013

Version: 1.0. Locked: False

GUID: {93208DF6-0C54-41c2-8DDA-204EC4BB4851}

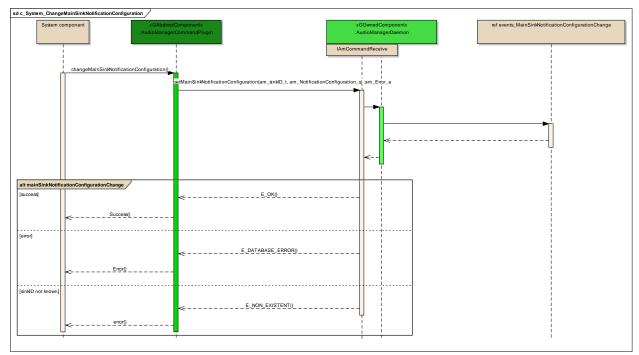


Figure: 9

## events\_MainSinkNotificationConfigurationChange

*Type:* InteractionOccurrence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_System\_ChangeMainSinkNotificationConfiguration Keywords:

Detail: Created on 29.01.2013. Last modified on 29.01.2013. GUID: {3EBCEB91-EFB7-48f9-8741-64FB5CFA17D4}

#### **Connections**

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

Connector	Source	Target	Notes
	<anonymous></anonymous>	events_MainSinkN otificationConfigur ationChange	
Source -> Destination	Public events_MainSinkN otificationConfigur ationChange	Public <anonymous></anonymous>	

### mainSinkNotificationConfigurationChange

Type: InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_System\_ChangeMainSinkNotificationConfiguration Keywords:

Detail: Created on 29.01.2013. Last modified on 29.01.2013. GUID: {AFB3A353-625D-4ce8-A771-3D997029F2CF}

# $c\_System\_Change Main Source Notification Configuration$

Type: Package

Status: Proposed. Version 1.0. Phase 1.0.

Package: System Interaction

Detail: Created on 29.01.2013. Last modified on 29.01.2013 GUID: {A1E72B66-8859-486c-BE24-5F06767870D3}

#### <u>c\_System\_ChangeMainSourceNotificationConfiguration</u> - (Interaction diagram)

*Created By:* q232968 on 29.01.2013

*Last Modified:* 29.01.2013

*Version:* 1.0. *Locked:* False

GUID: {7DE00EDC-A664-4a7a-9998-E918333EFB29}

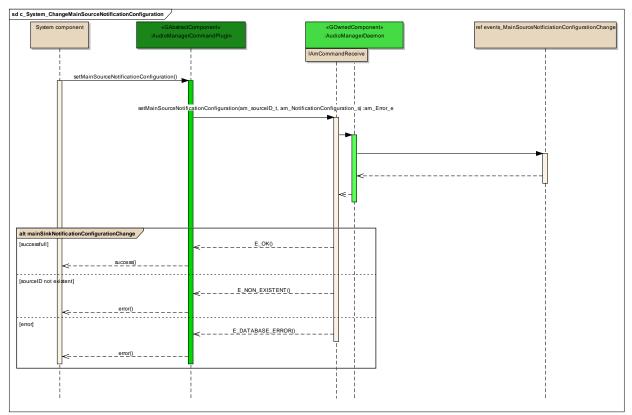


Figure: 10

## events\_MainSourceNotficiationConfigurationChange

Type: InteractionOccurrence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_System\_ChangeMainSourceNotificationConfiguration Keywords:

Detail: Created on 29.01.2013. Last modified on 29.01.2013. GUID: {ODDE88BB-B7B3-4e30-95C1-C1428551A414}

#### **Connections**

Connector	Source	Target	Notes
<u>Sequence</u>	Public	Public	
Source -> Destination	<anonymous></anonymous>	events_MainSource NotficiationConfigu rationChange	
Sequence	Public	Public	
Source -> Destination	events_MainSource	<anonymous></anonymous>	

Connector	Source	Target	Notes
	NotficiationConfigu rationChange		

## mainSinkNotificationConfigurationChange

*Type:* InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_System\_ChangeMainSourceNotificationConfiguration Keywords:

Detail: Created on 29.01.2013. Last modified on 29.01.2013. GUID: {86A8A558-E814-49a8-ADAB-DEC6D5A7F69D}

# c\_System\_GetListOfSources

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: System Interaction

Detail: Created on 07.10.2011. Last modified on 07.10.2011 GUID: {7E5659EF-687F-41e3-B80F-39B0CDF743B3}

### **<u>c System GetListOfSources</u>** - (Interaction diagram)

Created By: christian on 07.10.2011

*Last Modified:* 07.10.2011

Version: 1.0. Locked: False

GUID: {4FAFA606-EBC6-404d-9B73-1E7B2FAF471E}

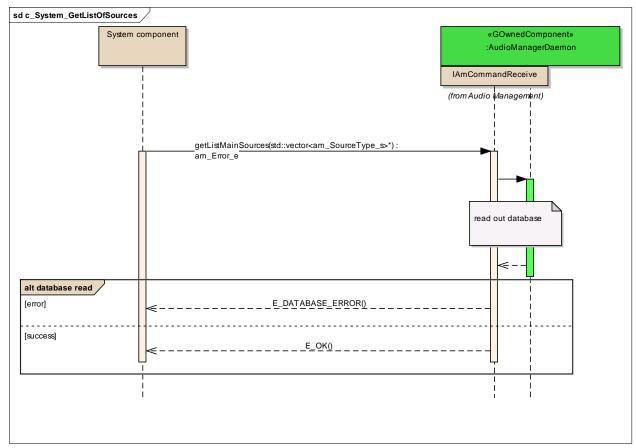


Figure: 11

#### database read

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_System\_GetListOfSources Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011.

GUID: {B33518FF-89E6-48fe-A93F-529A1217854C}

# c\_System\_GetListOfSinks

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: System Interaction

Detail: Created on 06.10.2011. Last modified on 06.10.2011

GUID: {019211C9-CD5E-4b4c-B808-1BEFA70C1EFE}

#### c System GetListOfSinks - (Interaction diagram)

Created By: christian on 06.10.2011

*Last Modified:* 06.10.2011

*Version:* 1.0. *Locked:* False

GUID: {A1852DA1-5CD1-4ae2-ABB3-D5F3B9F29442}

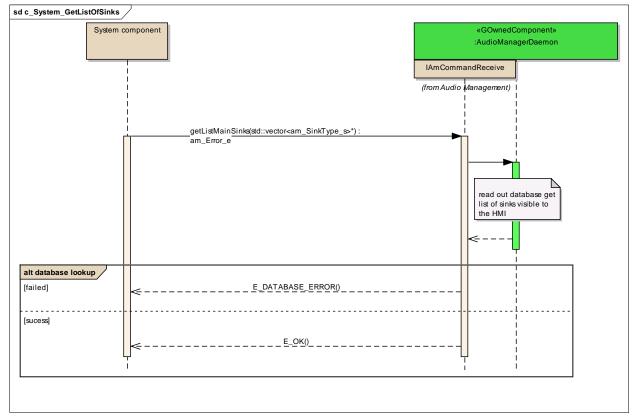


Figure: 12

### database lookup

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_System\_GetListOfSinks Keywords:

Detail: Created on 06.10.2011. Last modified on 06.10.2011. GUID: {7B1D5385-CA34-4843-9383-8E466B0035E2}

# c\_System\_GetListOfMainConnections

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: System Interaction

Detail: Created on 06.10.2011. Last modified on 07.10.2011
GUID: {B5F42B83-46FF-419f-97EB-F46100C9ED97}

# $\underline{c\ System\ GetListOfMainConnections} - (Interaction\ diagram)$

Created By: christian on 06.10.2011

*Last Modified:* 06.10.2011

Version: 1.0. Locked: False

GUID: {8C0BC612-9C43-482a-8B5A-61F3380B9C5B}

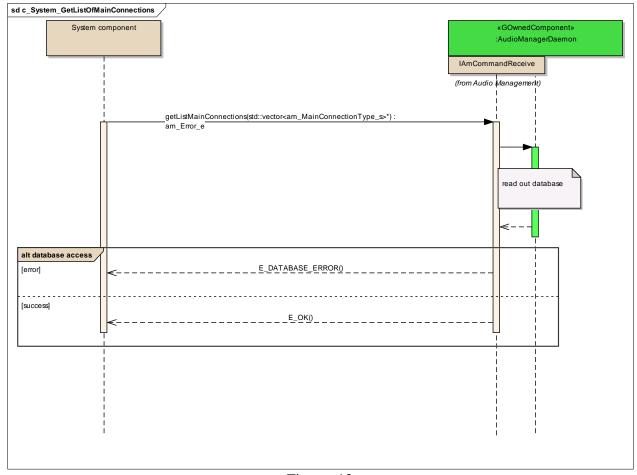


Figure: 13

#### database access

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_System\_GetListOfMainConnectionsKeywords:Detail:Created on 06.10.2011. Last modified on 06.10.2011.GUID:{6CD533FE-84B1-4d78-805F-6F496B289AD7}

# c\_System\_GetListOfMainSinkProperties

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: System Interaction

Detail: Created on 06.10.2011. Last modified on 06.10.2011
GUID: {724AE4A9-9E74-464f-A4D4-611BA92ECD8E}

### <u>c\_System\_GetListOfMainSinkProperties</u> - (Interaction diagram)

Created By: christian on 06.10.2011

*Last Modified:* 06.10.2011

Version: 1.0. Locked: False

GUID: {E1350A3A-EF48-410a-A803-FC83D18A18F2}

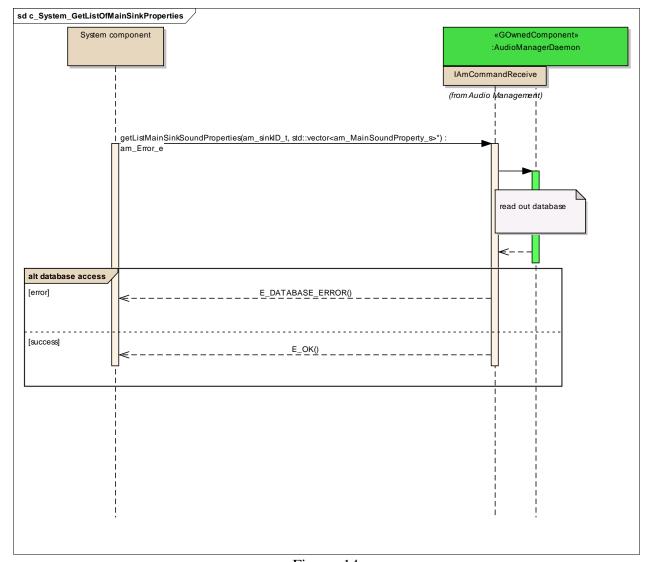


Figure: 14

#### database access

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_System\_GetListOfMainSinkPropertiesKeywords:Detail:Created on 06.10.2011. Last modified on 06.10.2011.GUID:{10983A7A-608E-44fc-AB4A-BF21AFA2945E}

# c\_System\_GetListOfMainSourceProperties

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: System Interaction

Detail: Created on 06.10.2011. Last modified on 06.10.2011 GUID: {6959D888-084B-4e9d-BC1A-B805EC399366}

### c System GetListOfMainSourceProperties - (Interaction diagram)

Created By: christian on 06.10.2011

*Last Modified:* 06.10.2011

Version: 1.0. Locked: False

*GUID:* {E4FEAF81-AABA-4761-BF2D-5C47909DBFBD}

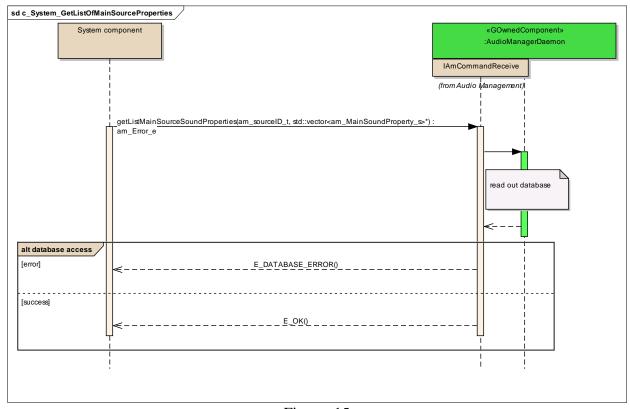


Figure: 15

#### database access

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_System\_GetListOfMainSourcePropertiesKeywords:Detail:Created on 06.10.2011. Last modified on 06.10.2011.GUID:{1F1A8F3B-FDF2-4a85-BB2E-D372DF473202}

## c\_System\_GetListSystemProperties

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: System Interaction

Detail: Created on 06.10.2011. Last modified on 06.10.2011
GUID: {1D99A9BD-CE8C-43ee-B347-B60ED5058CA2}

## <u>c\_System\_GetListSystemProperties</u> - (Interaction diagram)

Created By: christian on 06.10.2011

*Last Modified:* 06.10.2011

Version: 1.0. Locked: False

GUID: {BFBEEF25-E6B5-495d-BED6-75C104E793BB}

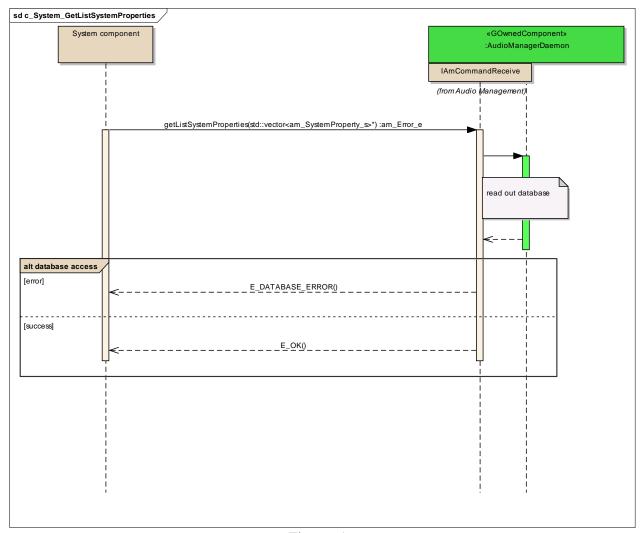


Figure: 16

#### database access

Type: InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_System\_GetListSystemProperties Keywords:
Detail: Created on 06.10.2011. Last modified on 06.10.2011.
GUID: {D19D4628-1205-4206-B938-AC1F5C4017E4}

# c\_System\_GetListOfSinkClasses

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: System Interaction

Detail: Created on 06.10.2011. Last modified on 06.10.2011 GUID: {CB6C9923-9E48-4b3f-9F76-66AED9B0BC4F}

## $\underline{c\_System\_GetListOfSinkClasses} - (Interaction\ diagram)$

Created By: christian on 06.10.2011

*Last Modified:* 06.10.2011

*Version:* 1.0. *Locked:* False

GUID: {864B405B-81E2-4de8-AF22-06AFB4CBDD82}

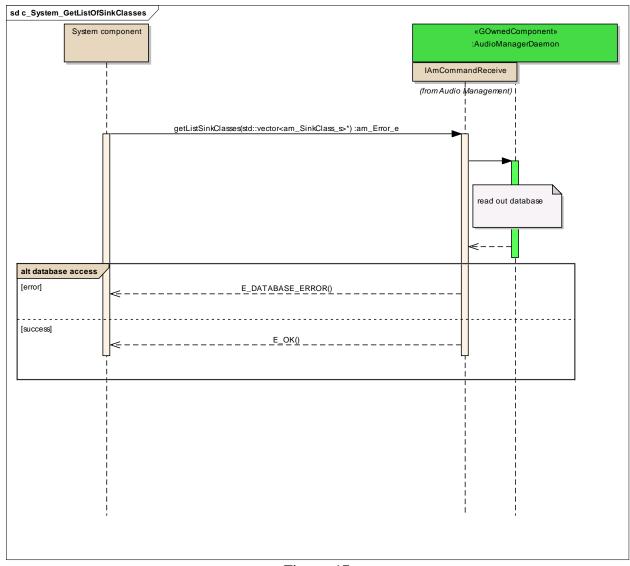


Figure: 17

### database access

Type: **InteractionFragment** 

Proposed. Version 1.0. Phase 1.0. Status:

c\_System\_GetListOfSinkClasses Package: Keywords:

Created on 06.10.2011. Last modified on 06.10.2011. Detail: GUID: {C3360DB9-93A0-49b9-B399-FAB505E55525}

## c System GetListOfSourceClasses

Type: Package

Reworked. Version 1.0. Phase 1.0. Status:

**System Interaction** Package:

Detail: Created on 06.10.2011. Last modified on 06.10.2011 {3B086687-114D-4255-BC94-EAF667AA3E58} GUID:

### <u>c\_System\_GetListOfSourceClasses</u> - (Interaction diagram)

Created By: christian *on* 06.10.2011

Last Modified: 06.10.2011

1.0. Locked: False Version:

{8F3E4597-6EAF-4aba-9010-A57FC10D56DE} GUID:

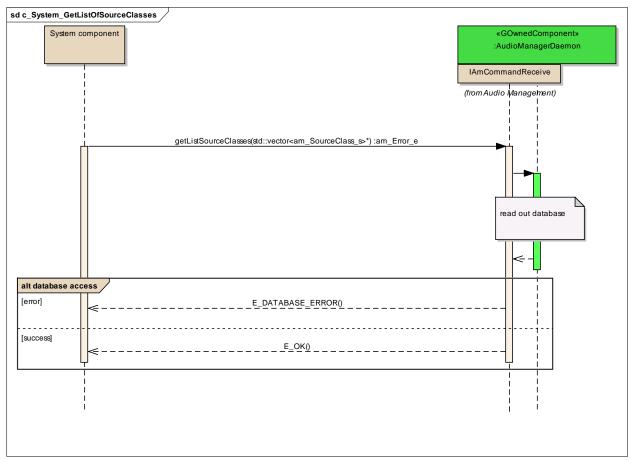


Figure: 18

#### database access

*Type:* InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_System\_GetListOfSourceClasses Keywords:

Detail: Created on 06.10.2011. Last modified on 06.10.2011. GUID: {74EDD8D7-7333-4012-B4CA-1FCB0D835DCB}

# $c\_System\_GetTimingInformation$

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: System Interaction

Detail: Created on 23.09.2011. Last modified on 07.10.2011 GUID: {8E5FB50C-EEAB-4532-89A5-2818CC367213}

### **<u>c\_System\_GetTimingInformation</u>** - (Interaction diagram)

Created By: christian on 23.09.2011

*Last Modified:* 07.10.2011

Version: 1.0. Locked: False

GUID: {550D9F7B-9239-4479-91F6-50BE40208C23}

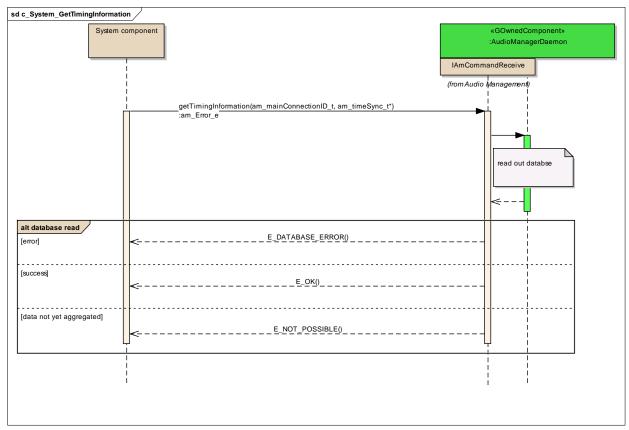


Figure: 19

#### database read

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_System\_GetTimingInformation Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {E363D1E5-D664-492a-8C3B-C05D20415475}

# c\_System\_Interrupt

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: System Interaction

Detail: Created on 17.08.2011. Last modified on 07.10.2011
GUID: {2F769324-42ED-4520-81DF-E6DDA0FAF7F6}

### **<u>c System Interrupt</u>** - (Interaction diagram)

Created By: christian on 17.08.2011

*Last Modified:* 07.10.2011

Version: 1.0. Locked: False

GUID: {C4A09FFF-77B8-4e05-BAA5-37F138434C7B}

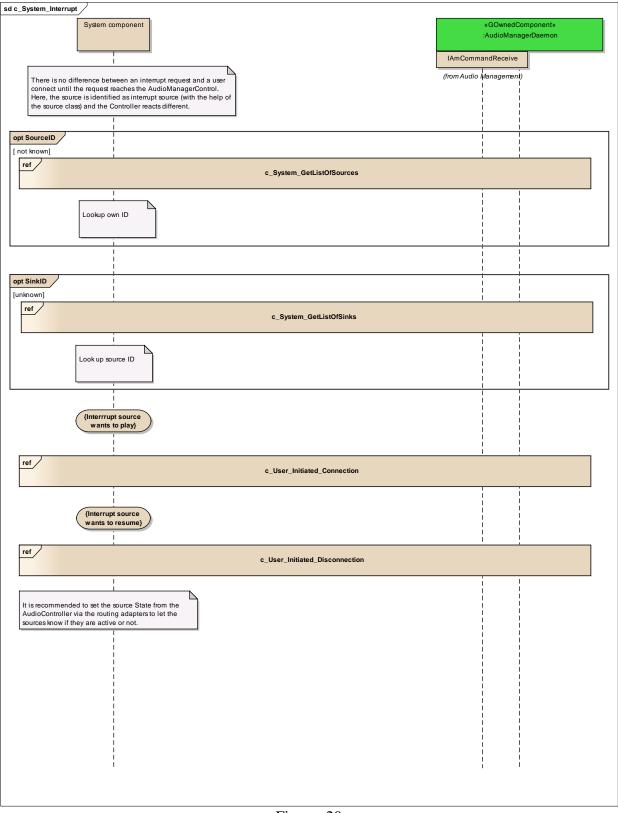


Figure: 20

#### **SinkID**

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0. Package: c\_System\_Interrupt Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {B9025B82-7DA4-4595-B289-710BB32CF494}

#### **SourceID**

*Type:* InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0. Package: c\_System\_Interrupt Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {994E0979-E050-4ba6-9BFA-AC3B56384767}

## c\_System\_GetListOfSinks

*Type:* <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0. Package: c\_System\_Interrupt Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {9737FA15-66DE-4131-8313-763057A77C4C}

# c\_System\_GetListOfSources

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0. Package: c\_System\_Interrupt Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {C27BB065-5A7C-4765-B2CA-F06273FF334C}

## c\_User\_Initiated\_Connection

Type: <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0. Package: c\_System\_Interrupt Keywords:

Detail: Created on 06.10.2011. Last modified on 06.10.2011. GUID: {CE3B89EF-AF0D-49c9-81DF-1BBF8CC4C8CE}

### c User Initiated Disconnection

Type: InteractionOccurrence

Status: Proposed. Version 1.0. Phase 1.0. Package: c\_System\_Interrupt Keywords:

Detail: Created on 06.10.2011. Last modified on 06.10.2011. GUID: {94A7DF7B-0DDE-474a-8507-E953E587E743}

# 9.3 Event Handling

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Command Interface

Detail: Created on 09.09.2011. Last modified on 07.10.2011 GUID: {0F8E1067-0E51-4e69-8D93-A271880E34AC}

# c\_Event\_MainSinkNotificationConfigurationChange

*Type:* Package

Status: Proposed. Version 1.0. Phase 1.0.

Package: Event Handling

Detail: Created on 29.01.2013. Last modified on 29.01.2013 GUID: {97B5FF42-9C7A-46d4-9C6C-96451E5C4E94}

### <u>c\_Event\_MainSinkNotificationConfigurationChange</u> - (Interaction diagram)

*Created By:* q232968 on 29.01.2013

*Last Modified:* 29.01.2013

Version: 1.0. Locked: False

GUID: {92589419-C6B7-47f9-A5F6-5EA71705D879}

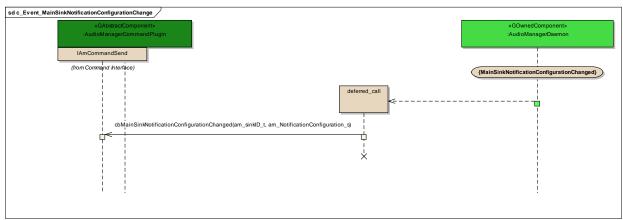


Figure: 21

### deferred call

*Type:* Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_MainSinkNotificationConfigurationChange Keywords:

*Detail: Created on 29.01.2013. Last modified on 29.01.2013.* 

GUID: {9503F673-5853-4bf3-B440-9D6370E39CF3}

#### **Connections**

Connections			
Connector	Source	Target	Notes
<u>Sequence</u>	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred_call	
	-		
Sequence	Public	Public	
cbMainSinkNotificati	deferred_call	IAmCommandSend	
onConfigurationChan	_		
ged(am_sinkID_t,			
am_NotificationConfi			

Connector	Source	Target	Notes
guration_s)			
Source -> Destination			

# c\_Event\_MainSourceNotificationConfigurationChange

Type: Package

Status: Proposed. Version 1.0. Phase 1.0.

Package: Event Handling

Detail: Created on 29.01.2013. Last modified on 29.01.2013 GUID: {5B1FDA6C-613F-47f4-820D-C76F4447BC80}

### <u>c\_Event\_MainSourceNotificationConfigurationChange</u> - (Interaction diagram)

*Created By:* q232968 on 29.01.2013

*Last Modified:* 29.01.2013

*Version:* 1.0. *Locked:* False

GUID: {07D20021-E64B-4338-A1AF-C339F0CA943A}



Figure: 22

#### deferred call

*Type:* Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_MainSourceNotificationConfigurationChange Keywords:

Detail: Created on 29.01.2013. Last modified on 29.01.2013.

GUID: {26E5052F-63D8-4841-9927-168496B06E5A}

#### **Connections**

Connector	Source	Target	Notes
Sequence	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
Sequence	Public	Public	
'			
cbMainSourceNotific	deferred call	IAmCommandSend	
ationConfigurationCh			
anged(am_sourceID_			
t,			
am_NotificationConfi			
guration_s)			
Source -> Destination			

## c\_Event\_MainSinkNotificationPayload

Type: **Package** 

Proposed. Version 1.0. Phase 1.0. Status:

Package: **Event Handling** 

Created on 29.01.2013. Last modified on 29.01.2013 Detail: {3FD7102B-697F-46ef-A7E1-4DF5E6869B4F} GUID:

## <u>c\_Event\_MainSinkNotificationPayload</u> - (Interaction diagram)

Created By: q232968 on 29.01.2013

29.01.2013 Last Modified:

1.0. Locked: False Version:

{A8C7F8D4-6C6B-4ec0-859D-480DE9D63812} GUID:

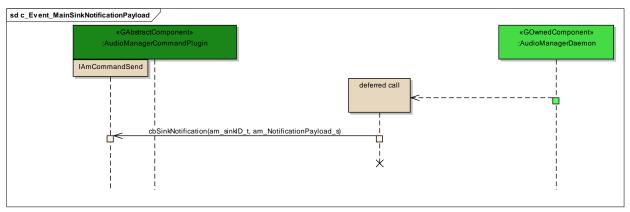


Figure: 23

#### deferred call

**Sequence** Type:

Proposed. Version 1.0. Phase 1.0. Status:

c\_Event\_MainSinkNotificationPayload Package: Created on 29.01.2013. Last modified on 29.01.2013. Detail: GUID: {F6010CFD-4902-4393-82DC-593F9A056EFD}

#### **Connections**

Connector	Source	Target	Notes
Sequence	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
<u>Sequence</u>	Public	Public	
cbSinkNotification(a	deferred call	IAmCommandSend	
m_sinkID_t,			
am_NotificationPaylo			
ad_s)			
Source -> Destination			

# c\_EventMainSourceNotificationPayload

Type: **Package** 

Proposed. Version 1.0. Phase 1.0. Status:

**Event Handling** Package:

Created on 29.01.2013. Last modified on 29.01.2013 Detail: {0CBD846E-FCCA-4be3-9406-CA873B5B1607} GUID:

## <u>c\_EventMainSourceNotificationPayload</u> - (Interaction diagram)

q232968 on 29.01.2013 Created By:

Last Modified: 29.01.2013

Version: 1.0. Locked: False

 $\{A49053A0\text{-}707B\text{-}4272\text{-}91A0\text{-}FC518DAB8722}\}$ GUID:

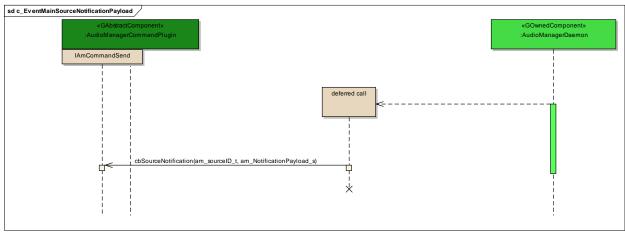


Figure: 24

### deferred call

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_EventMainSourceNotificationPayloadKeywords:Detail:Created on 29.01.2013. Last modified on 29.01.2013.GUID:{70E8AA28-D813-4636-B80B-5B261145AEBE}

#### **Connections**

Connector	Source	Target	Notes
Sequence	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
<u>Sequence</u>	Public	Public	
cbSourceNotification	deferred call	IAmCommandSend	
(am_sourceID_t,			
am_NotificationPaylo			
ad_s)			
Source -> Destination			

# c\_Event\_ConnectionChange

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Event Handling

Detail: Created on 16.08.2011. Last modified on 06.10.2011 GUID: {A323DCDE-FAF8-473e-9C59-ACFD6297EECC}

### <u>c\_Event\_ConnectionChange</u> - (Interaction diagram)

Created By: christian on 16.08.2011

*Last Modified:* 23.02.2012

*Version:* 1.0. *Locked:* False

GUID: {1C55E56E-8B85-4677-A460-F1474E241C5C}

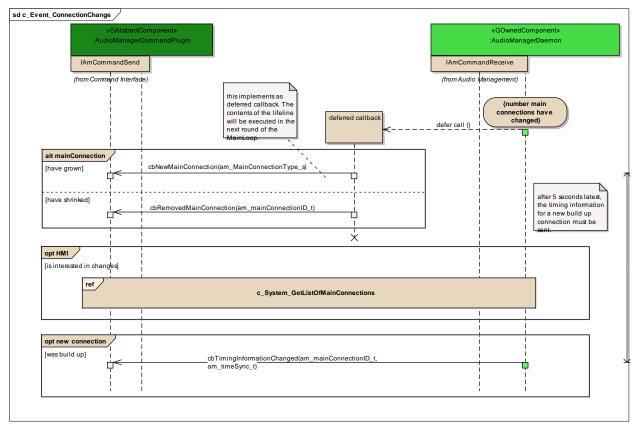


Figure: 25

#### НМІ

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_ConnectionChange Keywords:

Detail: Created on 06.10.2011. Last modified on 06.10.2011. GUID: {688739E4-FBF9-4300-AB9F-9976BE54813F}

# c\_System\_GetListOfMainConnections

*Type:* <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_ConnectionChange Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {B98F95A2-C7B4-4bc3-9C63-52F5899E7792}

### deferred callback

*Type:* Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_ConnectionChange Keywords:

Detail: Created on 21.02.2012. Last modified on 21.02.2012. GUID: {02077EB6-E01C-431b-9D8E-8F38E577C38C}

#### **Connections**

Connector	Source	Target	Notes
NoteLink	Public	Public	
	<anonymous></anonymous>	deferred callback	
Sequence defer call	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred callback	
Sequence cbNewMainConnecti on(am_MainConnecti onType_s) Source -> Destination	Public deferred callback	Public IAmCommandSend	
Sequence cbRemovedMainCon nection(am_MainCon nectionType_s) Source -> Destination	Public deferred callback	Public IAmCommandSend	

Connector	Source	Target	Notes

#### mainConnection

**InteractionFragment** Type:

Proposed. Version 1.0. Phase 1.0. Status:

c\_Event\_ConnectionChange Keywords: Package:

Detail: Created on 22.02.2012. Last modified on 22.02.2012. {2C27AB9C-FD2F-4447-9878-498710BE3774} GUID:

### new connection

Type: **InteractionFragment** 

Proposed. Version 1.0. Phase 1.0. Status:

c\_Event\_ConnectionChange Package:

Created on 23.09.2011. Last modified on 23.09.2011. Detail: {E8A612FB-059F-4438-9111-7307944A3B5D} GUID:

# c\_Event\_ConnectionStateChange

Type: Package

Reworked. Version 1.0. Phase 1.0. Status:

**Event Handling** Package:

Created on 17.08.2011. Last modified on 07.10.2011 Detail: {8D53DA52-61C1-49bb-901B-26AE8CB269D7} GUID:

## **c\_Event\_ConnectionStateChange** - (Interaction diagram)

christian on 17.08.2011 Created By:

21.02.2012 Last Modified:

1.0. *Locked*: False Version:

{EA4A9B50-4B37-4752-A6C6-4418E8058985} GUID:

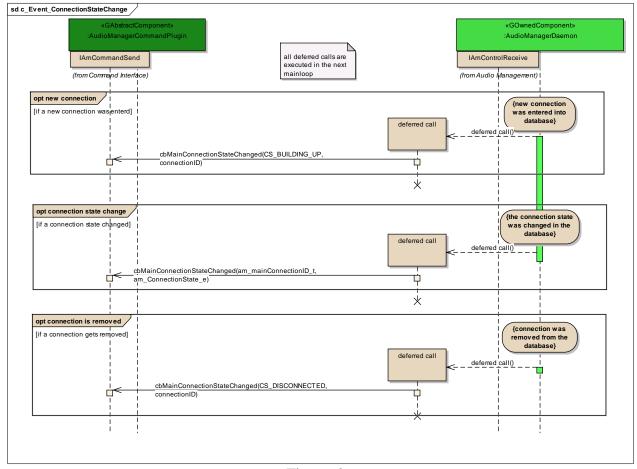


Figure: 26

#### connection is removed

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_ConnectionStateChange Keywords:

Detail: Created on 17.08.2011. Last modified on 17.08.2011. GUID: {33F28013-FF5A-4081-989D-4BE269FA17D1}

## connection state change

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_ConnectionStateChange Keywords.

*Detail:* Created on 17.08.2011. Last modified on 17.08.2011.

GUID: {06CCAF29-6B35-46d8-A530-8AD02D7BDF73}

### deferred call

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_ConnectionStateChange Keywords:

Detail: Created on 21.02.2012. Last modified on 21.02.2012. GUID: {F7BC1F39-1E02-44b3-889A-69ABF0241F6C}

### **Connections**

Connector	Source	Target	Notes
Sequence deferred call	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
Sequence cbMainConnectionSt ateChanged(am_main ConnectionID_t, am_ConnectionState_ e) Source -> Destination	Public deferred call	Public IAmCommandSend	

#### deferred call

*Type:* Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_ConnectionStateChange Keywords:

Detail: Created on 21.02.2012. Last modified on 21.02.2012. GUID: {5F9A3D87-DDA4-4f3b-850D-B86A1156919F}

#### **Connections**

Connector	Source	Target	Notes
Sequence deferred call	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
<u>Sequence</u>	Public	Public	
cbMainConnectionSt	deferred call	IAmCommandSend	
ateChanged(am_main			
ConnectionID_t,			
am_ConnectionState_			
e)			
Source -> Destination			

### deferred call

*Type:* **Sequence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_ConnectionStateChange Keywords:

Detail: Created on 21.02.2012. Last modified on 21.02.2012. GUID: {257E3205-4FCD-41c2-A6A7-C56945B064B8}

#### Connections

Connector	Source	Target	Notes
Sequence deferred call	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
Sequence cbMainConnectionSt ateChanged(am_main ConnectionID_t, am_ConnectionState_ e) Source -> Destination	Public deferred call	Public IAmCommandSend	

### new connection

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_ConnectionStateChange Keywords:

Detail: Created on 17.08.2011. Last modified on 17.08.2011. GUID: {481BF809-7306-408b-B423-02FDC986CA4C}

## c\_Event\_TimeDelayInformationChanged

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Event Handling

Detail: Created on 23.09.2011. Last modified on 07.10.2011 GUID: {47ACCF04-FE33-472f-A364-97BE923D5800}

## **<u>c Event TimeDelayInformationChanged</u>** - (Interaction diagram)

Created By: christian on 23.09.2011

*Last Modified:* 22.02.2012

Version: 1.0. Locked: False

GUID: {D5989448-D141-4bc9-9733-8DE7045FF34C}

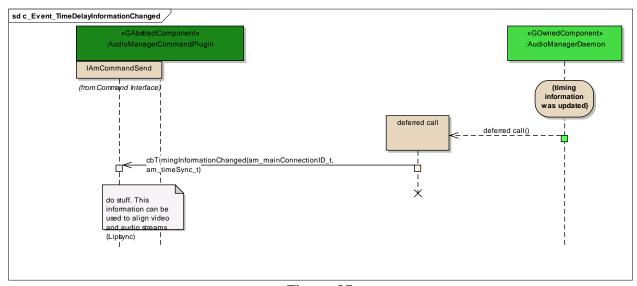


Figure: 27

#### deferred call

*Type:* Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_TimeDelayInformationChanged Keywords:

Detail: Created on 22.02.2012. Last modified on 22.02.2012. GUID: {9189B235-DDEA-4aa2-B472-AE05C7DC4AFE}

#### **Connections**

Connector	Source	Target	Notes
Sequence deferred call	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
Sequence cbTimingInformation Changed(am_mainCo nnectionID_t, am_timeSync_t) Source -> Destination	Public deferred call	Public IAmCommandSend	

## c\_Event\_MuteStateChange

Type: Package

Reworked. Version 1.0. Phase 1.0. Status:

Package: **Event Handling** 

Detail: Created on 22.09.2011. Last modified on 07.10.2011  $\{139EB971\text{-}271E\text{-}4629\text{-}ACB1\text{-}4B4BF2D5E0BF}\}$ GUID:

### <u>c\_Event\_MuteStateChange</u> - (Interaction diagram)

Created By: christian on 22.09.2011

21.02.2012 Last Modified:

1.0. *Locked:* False Version:

GUID: {86D09A24-8B51-4f09-A0DA-0C84AA3D8BB2}

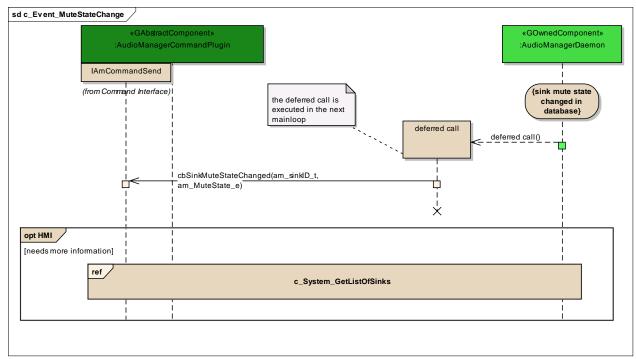


Figure: 28

### **HMI**

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_MuteStateChange Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {77C291DA-1B77-49ea-AFAD-35CB36FB95DD}

# c\_System\_GetListOfSinks

*Type:* InteractionOccurrence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_MuteStateChange Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {A35DA151-43DB-4c56-99F5-F71E6570D65B}

#### deferred call

Type: Sequence

Proposed. Version 1.0. Phase 1.0. Status: c\_Event\_MuteStateChange Keywords: Package:

*Created on 21.02.2012. Last modified on 21.02.2012.* Detail: {48DA2B2F-84F1-4f29-975F-4BD352DDA0DF} GUID:

#### **Connections**

Connector	Source	Target	Notes
<u>NoteLink</u>	Public	Public	
	<anonymous></anonymous>	deferred call	
Sequence deferred call	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
<u>Sequence</u>	Public	Public	
cbSinkMuteStateCha	deferred call	IAmCommandSend	
nged(am_sinkID_t,			
am_MuteState_e)			
Source -> Destination			

# c\_Event\_SinkAvailabilityChange

Type: Package

Reworked. Version 1.0. Phase 1.0. Status:

**Event Handling** Package:

Detail: Created on 20.09.2011. Last modified on 07.10.2011 {F1B9E5C8-6D93-4d80-A9B7-1449C74A39DF} GUID:

### <u>c\_Event\_SinkAvailabilityChange</u> - (Interaction diagram)

christian on 20.09.2011 Created By:

*Last Modified:* 22.02.2012

1.0. Locked: False Version:

GUID: {2473FB4A-7678-4c20-85D6-967DFB9E3E57}

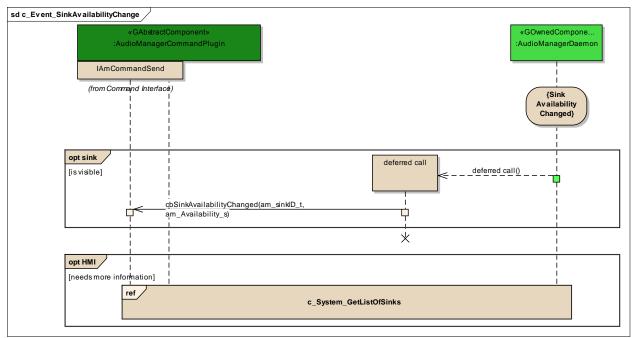


Figure: 29

#### НМІ

Type: InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_SinkAvailabilityChange Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {425A037F-FABA-4b27-B69F-175992C917BA}

# c\_System\_GetListOfSinks

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_SinkAvailabilityChange Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {81DFDFDA-0733-46c9-8967-D5D09B662898}

#### deferred call

*Type:* Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_SinkAvailabilityChange Keywords:

Detail: Created on 22.02.2012. Last modified on 22.02.2012. GUID: {5763AC75-DE9D-467c-A0B0-927BD1B1E1F7}

#### **Connections**

Connector	Source	Target	Notes
Sequence deferred call	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
<u>Sequence</u>	Public	Public	
cbSinkAvailabilityCh anged(am_sinkID_t,	deferred call	IAmCommandSend	
am_Availability_s)			
Source -> Destination			

### sink

*Type:* InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_SinkAvailabilityChange Keywords:

Detail: Created on 20.09.2011. Last modified on 20.09.2011. GUID: {E3A72B98-AB24-4f71-BD2C-FBB752236758}

# c\_Event\_SourceAvailabilityChange

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Event Handling

Detail: Created on 20.09.2011. Last modified on 07.10.2011 GUID: {E263D169-B510-4988-BBC2-C5BF841DB593}

### <u>c\_Event\_SourceAvailabilityChange</u> - (Interaction diagram)

Created By: christian on 20.09.2011

*Last Modified:* 22.02.2012

*Version:* 1.0. *Locked:* False

GUID: {0976A2B5-B3D0-4840-B896-E5716CE61A43}

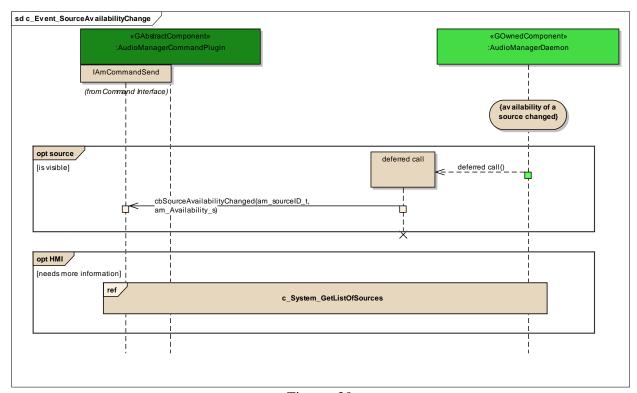


Figure: 30

#### НМІ

*Type:* InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_SourceAvailabilityChange Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {6DAE6CB8-023A-4689-8048-9047BEA430D6}

# c\_System\_GetListOfSources

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_SourceAvailabilityChange Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {BE3C4525-0CAB-4005-A675-7A06F036DB3D}

### deferred call

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_SourceAvailabilityChange Keywords:

Detail: Created on 22.02.2012. Last modified on 22.02.2012. GUID: {E9DBD510-AF52-4586-A686-22CCB62C1599}

#### **Constraints**

• de: (Invariant, Status is Approved)

#### **Connections**

Connector	Source	Target	Notes
Sequence deferred call	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
<u>Sequence</u>	Public	Public	
cbSourceAvailability	deferred call	IAmCommandSend	
Changed(am_sourceI			
D_t,			
am_Availability_s)			
Source -> Destination			

#### source

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_SourceAvailabilityChange Keywords:

Detail: Created on 20.09.2011. Last modified on 20.09.2011.

GUID: {58EEF976-0A9C-4664-A59E-16E8BFFB90A8}

# c\_Event\_SinkSoundPropertyChange

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Event Handling

Detail: Created on 12.09.2011. Last modified on 07.10.2011
GUID: {6875DCC5-E08E-4a75-9B2E-8418E080683F}

### <u>c\_Event\_SinkSoundPropertyChange</u> - (Interaction diagram)

Created By: christian on 12.09.2011

*Last Modified:* 21.02.2012

*Version:* 1.0. *Locked:* False

GUID: {E0DA5C47-5DAD-477f-9E72-339D86936A1F}

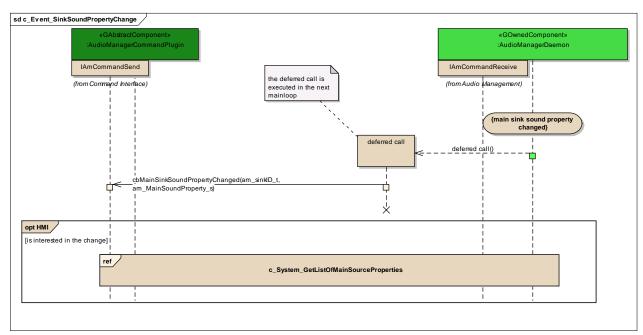


Figure: 31

### **HMI**

Type: InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_SinkSoundPropertyChange Keywords:

Created on 06.10.2011. Last modified on 06.10.2011. Detail: {BA70D780-B829-4e23-9C18-4B09DF929833} GUID:

## c\_System\_GetListOfMainSourceProperties

**InteractionOccurrence** Type:

Proposed. Version 1.0. Phase 1.0. Status:

c\_Event\_SinkSoundPropertyChange Package: Created on 07.10.2011. Last modified on 07.10.2011. Detail: {6A44B90E-9168-42af-848A-C1E7DACB2DAF} GUID:

#### deferred call

Type: Sequence

Proposed. Version 1.0. Phase 1.0. Status:

c\_Event\_SinkSoundPropertyChange Package: Keywords: Created on 21.02.2012. Last modified on 21.02.2012. Detail: {4AF7DB68-9CD8-4e73-B5FD-D4239D5C6C6D} GUID:

#### **Connections**

Connector	Source	Target	Notes
<u>NoteLink</u>	Public	Public	
	<anonymous></anonymous>	deferred call	
Sequence deferred call		Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
Sequence	Public	Public	
cbMainSinkSoundPro	deferred call	IAmCommandSend	
pertyChanged(am_sin			
kID_t,			
am_MainSoundPrope			
rty_s)			
Source -> Destination			

Connector	Source	Target	Notes

## c\_Event\_SourceSoundPropertyChange

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Event Handling

Detail: Created on 12.09.2011. Last modified on 07.10.2011 GUID: {93D0254C-6422-4f31-AE8C-C3EE1B261169}

### **c\_Event\_SourceSoundPropertyChange** - (Interaction diagram)

Created By: christian on 12.09.2011

*Last Modified:* 21.02.2012

*Version:* 1.0. *Locked:* False

GUID: {A39BADE6-70B8-4807-A416-B853E21E66C1}

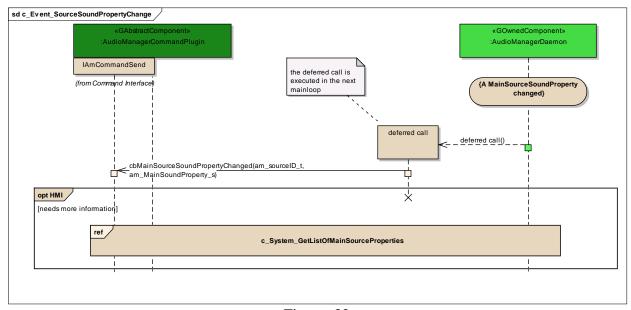


Figure: 32

#### НМІ

*Type:* InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_Event\_SourceSoundPropertyChangeKeywords:Detail:Created on 06.10.2011. Last modified on 06.10.2011.GUID:{7DA671FD-57F5-493e-BA70-D81604169A15}

## c\_System\_GetListOfMainSourceProperties

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_SourceSoundPropertyChange Keywords:
Detail: Created on 07.10.2011. Last modified on 07.10.2011.

GUID: {8655602F-C2B0-4eb3-9C29-02FC15FBAC6F}

## deferred call

*Type:* Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_SourceSoundPropertyChange Keywords:
Detail: Created on 21.02.2012. Last modified on 21.02.2012.
GUID: {E462B249-E5F6-4c71-8083-F4B83E71C33D}

#### **Connections**

Connector	Source	Target	Notes
<u>NoteLink</u>	Public	Public	
	<anonymous></anonymous>	deferred call	
Sequence deferred call Source -> Destination		Public deferred call	
Sequence cbMainSourceSound PropertyChanged(am _sourceID_t, am_MainSoundPrope rty_s) Source -> Destination	Public deferred call	Public IAmCommandSend	

# c\_Event\_SystemPropertyChange

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Event Handling

Detail: Created on 06.10.2011. Last modified on 06.10.2011 GUID: {24801A84-7E48-4385-A182-9F65F55BD767}

### <u>c\_Event\_SystemPropertyChange</u> - (Interaction diagram)

Created By: christian on 06.10.2011

*Last Modified:* 21.02.2012

Version: 1.0. Locked: False

GUID: {AFF63199-B4CA-4c1e-87B4-1E93BF64BC62}

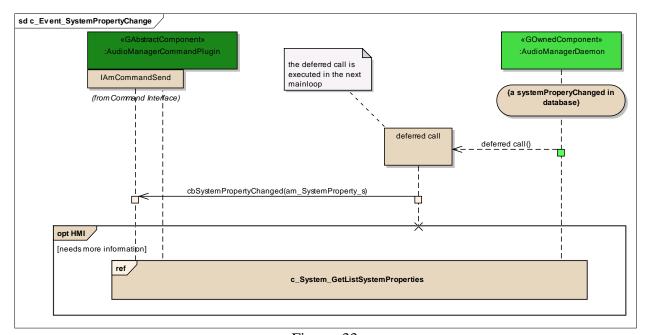


Figure: 33

#### НМІ

*Type:* InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_SystemPropertyChange Keywords.

Detail: Created on 06.10.2011. Last modified on 06.10.2011.

GUID: {50644631-9111-4abf-8D9C-6D27429C986B}

# c\_System\_GetListSystemProperties

Type: InteractionOccurrence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_SystemPropertyChange Keywords:

Detail: Created on 06.10.2011. Last modified on 06.10.2011. GUID: {FA5E9F5B-3D09-4250-8D01-65F4E7037503}

#### deferred call

*Type:* Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_SystemPropertyChange Keywords:

Detail: Created on 21.02.2012. Last modified on 21.02.2012. GUID: {1B4D7BF2-88FF-47ab-AA50-4C7C70EDCE91}

#### **Connections**

Connector	Source	Target	Notes
<u>NoteLink</u>	Public	Public	
	<anonymous></anonymous>	deferred call	
Sequence deferred call	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
<u>Sequence</u>	Public	Public	
cbSystemPropertyCh	deferred call	IAmCommandSend	
anged(am_SystemPro perty_s)			
Source -> Destination			

# c\_Event\_VolumeChange

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Event Handling

Detail: Created on 17.08.2011. Last modified on 07.10.2011 GUID: {6A58153E-CC10-402e-9F38-93F316FAC78A}

#### <u>**c\_Event\_VolumeChange**</u> - (Interaction diagram)

Created By: christian on 19.08.2011

*Last Modified:* 21.02.2012

*Version:* 1.0. *Locked:* False

GUID: {B88A30C1-672D-4b99-9DD3-50B88FBAFED2}

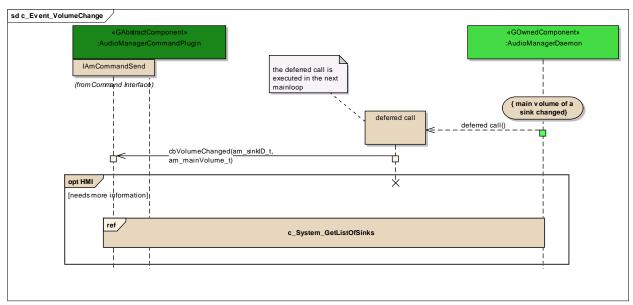


Figure: 34

#### НМІ

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0. Package: c\_Event\_VolumeChange Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {519FC76D-7642-49d9-9A95-CC5A8B8CABFE}

# c\_System\_GetListOfSinks

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0. c\_Event\_VolumeChange Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {00E73E66-B068-4656-9D6E-74CE033966D6}

#### deferred call

*Type:* Sequence

Status: Proposed. Version 1.0. Phase 1.0. Package: c\_Event\_VolumeChange Keywords:

Detail: Created on 21.02.2012. Last modified on 21.02.2012. GUID: {64DC951A-FF5A-4860-A032-2CCFD4866440}

#### **Connections**

Connector	Source	Target	Notes
<u>NoteLink</u>	Public	Public	
	<anonymous></anonymous>	deferred call	
Sequence deferred call	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
Sequence	Public	Public	
cbVolumeChanged(a	deferred call	IAmCommandSend	
m_sinkID_t,			
am_mainVolume_t)			
Source -> Destination			

# volume change

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_VolumeChange Keywords:

Detail: Created on 19.08.2011. Last modified on 19.08.2011. GUID: {264C8D4E-693B-4bee-B740-11D8AC456CD0}

# c\_Event\_NumberOfSinksChange

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Event Handling

Detail: Created on 16.08.2011. Last modified on 07.10.2011 GUID: {26B40A43-E4D8-4a9d-BC14-07653FB43D3F}

## <u>c\_Event\_NumberOfSinksChange</u> - (Interaction diagram)

Created By: christian on 16.08.2011

*Last Modified:* 22.02.2012

Version: 1.0. Locked: False

GUID: {3EBC70D6-D8FA-46da-833A-06C90F099E6D}

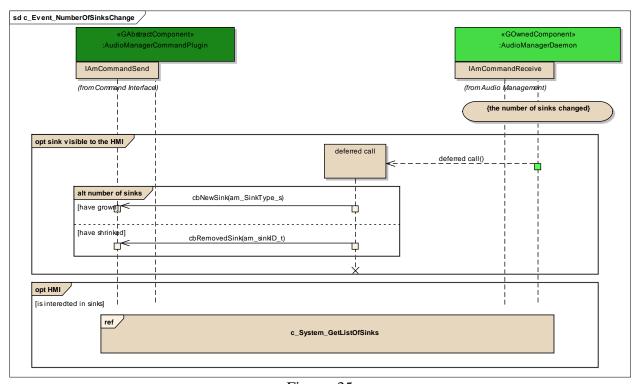


Figure: 35

#### НМІ

Type: InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_NumberOfSinksChange Keywords:

Detail: Created on 06.10.2011. Last modified on 06.10.2011. GUID: {5AA0608D-2567-4281-917D-81309EB661E6}

## c\_System\_GetListOfSinks

*Type:* <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_NumberOfSinksChange Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {8B0215B3-E316-4bbb-9739-4B945084D028}

## deferred call

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_NumberOfSinksChange Keywords:

Detail: Created on 22.02.2012. Last modified on 22.02.2012. GUID: {CF53AF22-ABAD-46f4-A239-F4597DBA2AC4}

#### **Connections**

Connector	Source	Target	Notes
Sequence deferred call	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
Sequence cbNewSink(am_Sink Type_s) Source -> Destination	Public deferred call	Public IAmCommandSend	
Sequence cbRemovedSink(am_ SinkType_s)	Public deferred call	Public IAmCommandSend	

Connector	Source	Target	Notes
Source -> Destination			

#### number of sinks

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_NumberOfSinksChange Keywords:

Detail: Created on 22.02.2012. Last modified on 22.02.2012. GUID: {C5E68604-B9EE-4f15-82F9-7026FB1C9ECB}

## sink visible to the HMI

Type: InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_NumberOfSinksChange Keywords:

Detail: Created on 11.10.2011. Last modified on 11.10.2011. GUID: {B4BB5B93-6872-4ea2-B61C-30A560F778B7}

# c\_Event\_NumberOfSourcesChange

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Event Handling

Detail: Created on 16.08.2011. Last modified on 07.10.2011 GUID: {AEEF5059-3571-4b40-A185-5068E7E8515B}

## <u>c\_Event\_NumberOfSourcesChange</u> - (Interaction diagram)

Created By: christian on 16.08.2011

*Last Modified:* 22.02.2012

*Version:* 1.0. *Locked:* False

GUID: {B0E80C05-0C0F-4033-AC21-1F218FE5E8C7}

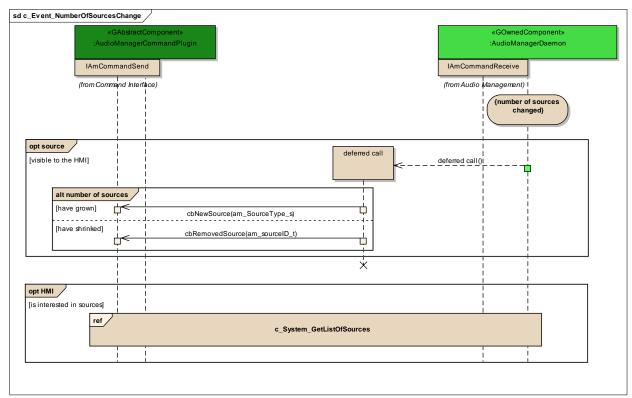


Figure: 36

## НМІ

**InteractionFragment** Type:

Proposed. Version 1.0. Phase 1.0. Status:

 $c\_Event\_NumberOfSourcesChange$ Keywords: Package:

Created on 06.10.2011. Last modified on 06.10.2011. Detail:

{38EF372E-117F-4be2-9AA1-34028E9DF679} GUID:

# c\_System\_GetListOfSources

**InteractionOccurrence** Type:

Proposed. Version 1.0. Phase 1.0. Status:

c\_Event\_NumberOfSourcesChange Keywords: Package:

Created on 07.10.2011. Last modified on 07.10.2011. Detail: {64DF09EA-C01B-4073-8152-BEBB06C6F24B} GUID:

## deferred call

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_NumberOfSourcesChange Keywords:

Detail: Created on 22.02.2012. Last modified on 22.02.2012. GUID: {6EB9346B-2353-431f-BF2C-959B2C671022}

#### **Connections**

Connector	Source	Target	Notes
Sequence deferred call	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
Sequence cbNewSource(am_So urceType_s) Source -> Destination	Public deferred call	Public IAmCommandSend	
Sequence cbRemovedSource(a m_SourceType_s) Source -> Destination	Public deferred call	Public IAmCommandSend	

### number of sources

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_NumberOfSourcesChange Keywords:

Created on 22 02 2012 Last modified on 22 02 201

Detail: Created on 22.02.2012. Last modified on 22.02.2012. GUID: {2951E3C7-78A2-489b-BC18-2C29D8FEE19C}

#### source

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_Event\_NumberOfSourcesChangeKeywords:Detail:Created on 11.10.2011. Last modified on 11.10.2011.GUID:{AE43811C-8923-4214-9CA3-5EF3E7C5FC9B}

# c\_Event\_NumberOfSinkClassesChange

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Event Handling

Detail: Created on 07.10.2011. Last modified on 07.10.2011 GUID: {F72D93B2-441B-4a83-8B38-8B282366CC12}

## $\underline{\textbf{c} \ Event} \ \underline{\textbf{NumberOfSinkClassesChange}} \ - (Interaction \ diagram)$

Created By: christian on 07.10.2011

*Last Modified:* 23.02.2012

Version: 1.0. Locked: False

GUID: {DA147E93-E2BF-4fed-857B-26A56450FA94}

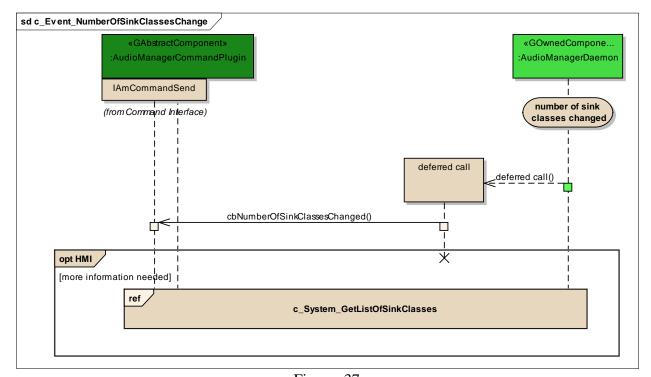


Figure: 37

#### НМІ

*Type:* <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_NumberOfSinkClassesChange Keywords:
Detail: Created on 07.10.2011. Last modified on 07.10.2011.

GUID: {898A9BE8-77C7-44f6-B39A-4EB5226B06C1}

## c\_System\_GetListOfSinkClasses

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Event\_NumberOfSinkClassesChange Keywords:
Detail: Created on 07.10.2011. Last modified on 07.10.2011.
GUID: {15423ED7-36BD-45fc-B2E4-786618010635}

#### deferred call

*Type:* Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_Event\_NumberOfSinkClassesChangeKeywords:Detail:Created on 22.02.2012. Last modified on 22.02.2012.GUID:{DA13E90F-2D8D-4ef9-8046-7D280EFC6BEA}

#### **Connections**

Connector	Source	Target	Notes
Sequence deferred call	Public	Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
Sequence	Public	Public	
cbNumberOfSinkCla	deferred call	IAmCommandSend	
ssesChanged()			
Source -> Destination			

Connector	Source	Target	Notes

# c\_Event\_NumberOfSourceClassesChange

Type: **Package** 

Reworked. Version 1.0. Phase 1.0. Status:

**Event Handling** Package:

Created on 07.10.2011. Last modified on 07.10.2011 Detail: GUID: {EC8CB88A-0956-4365-8543-EE22C61D7090}

## <u>c\_Event\_NumberOfSourceClassesChange</u> - (Interaction diagram)

christian on 07.10.2011 Created By:

22.02.2012 Last Modified:

1.0. Locked: False Version:

{F739D572-E258-4c42-A2B8-F53DF5F461B5} GUID:

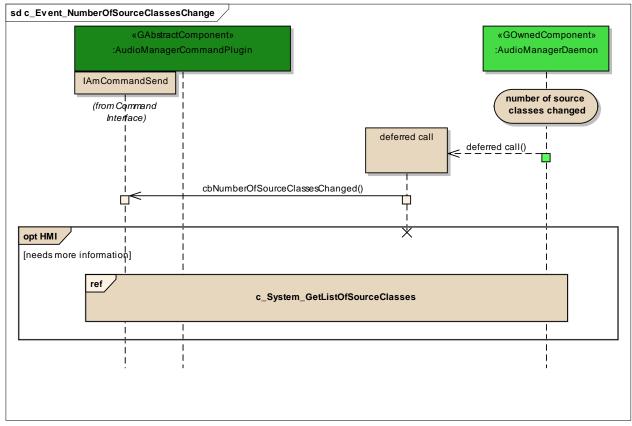


Figure: 38

#### **HMI**

*Type:* <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_Event\_NumberOfSourceClassesChangeKeywords:Detail:Created on 07.10.2011. Last modified on 07.10.2011.GUID:{7F032121-9CE4-4217-9FFD-D72FE7BD353E}

## c\_System\_GetListOfSourceClasses

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_Event\_NumberOfSourceClassesChangeKeywords:Detail:Created on 07.10.2011. Last modified on 07.10.2011.GUID:{8F850CAD-72EB-4894-BEE9-D5F84D30029D}

#### deferred call

*Type:* Sequence

Status: Proposed. Version 1.0. Phase 1.0.

Package:c\_Event\_NumberOfSourceClassesChangeKeywords:Detail:Created on 22.02.2012. Last modified on 22.02.2012.GUID:{A32C7692-DE5B-4932-AAF7-A7C4EA1066E7}

#### **Connections**

Connector	Source	Target	Notes
Sequence deferred call		Public	
Source -> Destination	<anonymous></anonymous>	deferred call	
<u>Sequence</u>	Public	Public	
cbNumberOfSourceC	deferred call	IAmCommandSend	
lassesChanged()			
Source -> Destination			

# 9.4 Lifecycle

Type: **Package** 

Reworked. Version 1.0. Phase 1.0. Status:

**Command Interface** Package:

Created on 09.09.2011. Last modified on 07.10.2011 Detail: GUID: {6619A6C0-7178-4e8c-BD97-9721C8BE151D}

# c Lic InterfaceStart

Type: **Package** 

Reworked. Version 1.0. Phase 1.0. Status:

Package: Lifecycle

Created on 27.09.2011. Last modified on 07.10.2011 Detail: {A4376A3F-8093-4711-8ACC-087EDDF6D339} GUID:

## **c\_InterfaceStart** - (Interaction diagram)

Created By: christian on 27.09.2011

07.03.2012 Last Modified:

Version: 1.0. Locked: False

GUID: {3D5EB0B6-2FDE-43e1-8E92-1916552A53B3}

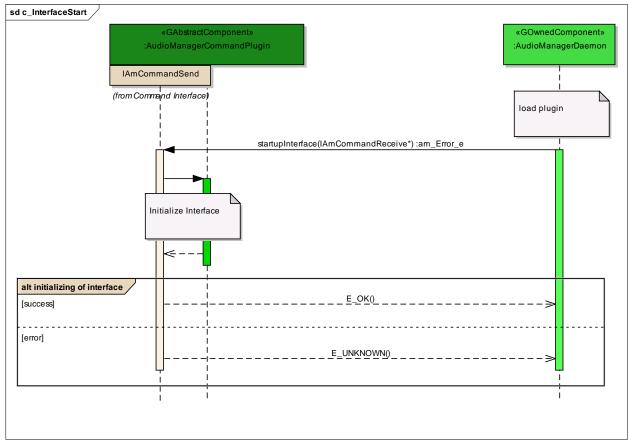


Figure: 39

## initializing of interface

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0. Package: c\_Lic\_InterfaceStart Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {5E010895-CDA8-4b2e-8D46-8C842D6DC796}

# c\_Lic\_InterfaceRundown

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Lifecycle

Detail: Created on 07.10.2011. Last modified on 07.10.2011

GUID: {E1AA9602-0364-4533-9C8C-EBAA016DC2A1}

## <u>c\_Lic\_InterfaceRundown</u> - (Interaction diagram)

Created By: christian on 07.10.2011

*Last Modified:* 12.10.2011

*Version:* 1.0. *Locked:* False

GUID: {CD6B3A72-5A44-4b4b-BBC7-893101136B34}

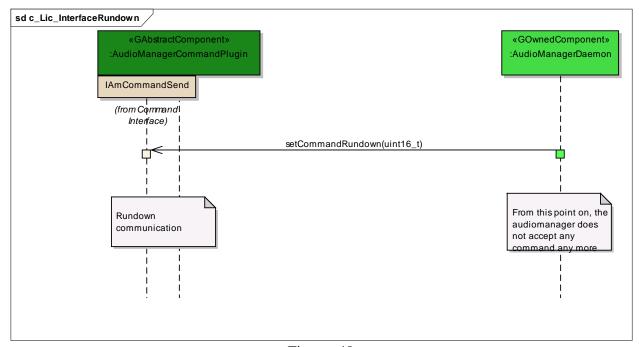


Figure: 40

# c\_Lic\_Startup

*Type:* Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Lifecycle

Detail: Created on 16.08.2011. Last modified on 07.10.2011 GUID: {AE059294-0711-458c-A732-D72C0897C07E}

# <u>c\_Lic\_Startup</u> - (Interaction diagram) Created By: christian on 16.08.2011

*Last Modified:* 07.03.2012

*Version:* 1.0. *Locked:* False

GUID: {BC9B40B7-C8A7-4d7a-9691-C876ECC1B08F}

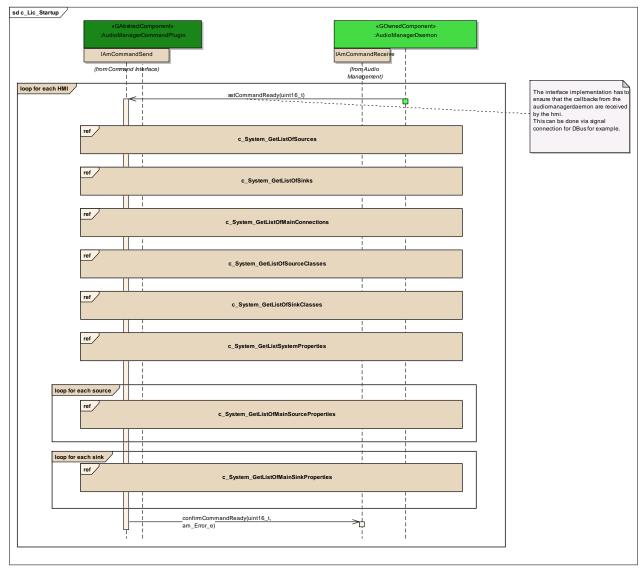


Figure: 41

# c\_InterfaceStart

Type: <u>InteractionOccurrence</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Lic\_Startup Keywords:

Detail: Created on 27.09.2011. Last modified on 27.09.2011. GUID: {7C809CB3-E1AE-4555-94FA-C18371715C4B}

## c\_System\_GetListOfMainConnections

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Lic\_Startup Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {8C0913B6-30E4-473c-BB96-3D87D4B5B3F6}

## c\_System\_GetListOfMainSinkProperties

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Lic\_Startup Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {6889E73D-EEA0-4e08-8909-104AD95C7BF0}

# c\_System\_GetListOfMainSourceProperties

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Lic\_Startup Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {65205B38-7A1E-4c0c-8CA0-23AE415BCBD4}

# c\_System\_GetListOfSinkClasses

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Lic\_Startup Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {70CE6A96-A7D4-48e9-B341-4BB1FDAEBD86}

## c\_System\_GetListOfSinks

Type: InteractionOccurrence

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Lic\_Startup Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {E071D1D7-7D7C-4ce2-B631-1BCD0ABF6BF1}

## c\_System\_GetListOfSourceClasses

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Lic\_Startup Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {0A0512CD-7ABD-4433-8148-074D5635E6A5}

## c\_System\_GetListOfSources

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Lic\_Startup Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {9213BA60-E179-43dd-B88A-94F695184E97}

# c\_System\_GetListSystemProperties

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Lic\_Startup Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {65D58437-919C-45c3-9606-D01A1C311A40}

#### for each HMI

Type: <u>InteractionFragment</u>

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Lic\_Startup Keywords:

Detail: Created on 12.10.2011. Last modified on 12.10.2011. GUID: {BE39FD72-0E54-4416-9948-1E6647D283A8}

#### for each sink

*Type:* **InteractionFragment** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Lic\_Startup Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {91AD5F18-D0B4-4adc-A301-DAC57BEEBFCA}

#### for each source

*Type:* InteractionFragment

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Lic\_Startup Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {C1D5D845-8944-4d84-BCA3-BDDD38A523FF}

# c\_Lic\_Rundown

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Lifecycle

Detail: Created on 22.09.2011. Last modified on 07.10.2011 GUID: {718E3DD2-8B4C-40b5-928A-0155F6936AD2}

# <u>c Lic Rundown</u> - (Interaction diagram)

Created By: christian on 22.09.2011

*Last Modified:* 07.03.2012

*Version:* 1.0. *Locked:* False

GUID: {AA19C8D3-625F-4f67-9BC4-4A30A038F152}

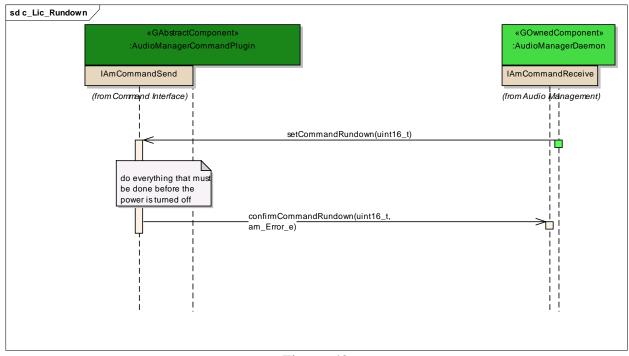


Figure: 42

## c\_Lic\_InterfaceRundown

*Type:* **InteractionOccurrence** 

Status: Proposed. Version 1.0. Phase 1.0.

Package: c\_Lic\_Rundown Keywords:

Detail: Created on 07.10.2011. Last modified on 07.10.2011. GUID: {F8CAF155-C06F-4dfc-A863-038300BAF2B6}

# c\_Lic\_DbusHandling

Type: Package

Status: Reworked. Version 1.0. Phase 1.0.

Package: Lifecycle

Detail: Created on 27.09.2011. Last modified on 07.10.2011
GUID: {2C97AE51-0297-4abe-9CA1-4E71A7814E8E}

## c Lic DbusHandling - (Interaction diagram)

Created By: christian on 27.09.2011

*Last Modified:* 07.03.2012

*Version:* 1.0. *Locked:* False

GUID: {413E1250-86D0-44fc-84FC-11E277525D7A}

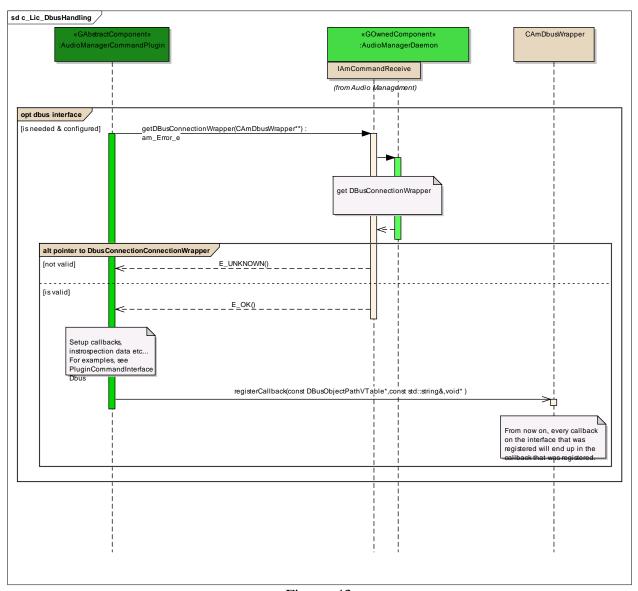


Figure: 43

# **CAmDbusWrapper**

Type: Sequence

Status: Proposed. Version 1.0. Phase 1.0. Package: c\_Lic\_DbusHandling Keywords:

Detail: Created on 07.03.2012. Last modified on 07.03.2012. GUID: {0852A21C-FD7B-4ec7-A693-687DC0AC58C1}

# 10 Headers

## 10.1 CommandReceive

```
/**
 * Copyright (C) 2012, BMW AG
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 * Contribution License Agreements.
 * \copyright
 * This Source Code Form is subject to the terms of the
 * Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with
 * this file, You can obtain one at http://mozilla.org/MPL/2.0/.
 * \author Christian Mueller, christian.linke@bmw.de BMW 2011,2012
 * \file
 * For further information see http://www.genivi.org/.
 * THIS CODE HAS BEEN GENERATED BY ENTERPRISE ARCHITECT GENIVI MODEL. PLEASE CHANGE ONLY IN ENTERPRISE
ARCHITECT AND GENERATE AGAIN
#if !defined(EA_52591199_D6BE_451e_92F8_032DA5493EF4__INCLUDED_)
#define EA_52591199_D6BE_451e_92F8_032DA5493EF4__INCLUDED_
#include <vector>
#include <string>
#include "audiomanagertypes.h"
namespace am {
class CAmDbusWrapper;
class CAmSocketHandler;
```

```
#include "audiomanagertypes.h"
#define CommandReceiveVersion "2.0"
namespace am {
        * The interface towards the Controlling Instance (e.g HMI). It handles the communication
towards the HMI and other system
        * components who need to interact with the audiomanagement.
        ^{\star} 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
        \star 2. YOU MAY NOT CALL THE CALLING INTERFACE DURING AN SYNCHRONOUS OR ASYNCHRONOUS CALL THAT
EXPECTS A RETURN VALUE.\n
        * \details
        \star Violation these rules may lead to unexpected behavior! Nevertheless you can implement thread
safe by using the deferred-
         ^\star call pattern described on the wiki which also helps to implement calls that are forbidden.\setminusn
        * For more information, please check CAmSerializer
        * @author Christian Mueller
        * @created 17-Jan-2013 10:00:24
        * /
       class IAmCommandReceive
       {
       public:
               IAmCommandReceive() {
               virtual ~IAmCommandReceive() {
               }
                ^{\star} This function returns the version of the interface.
                * @param version
               virtual void getInterfaceVersion(std::string& version) const =0;
                * connects a source to sink
                * @return E_OK on success, E_NOT_POSSIBLE on failure, E_ALREADY_EXISTS if the connection
does already exists
                * @param sourceID
                * @param sinkID
                * @param mainConnectionID
               virtual am Error e connect(const am sourceID t sourceID, const am sinkID t sinkID,
am mainConnectionID t& mainConnectionID) =0;
               /**
                * disconnects a mainConnection
                * @return E OK on successes, E NON EXISTENT if the connection does not exist,
E NOT POSSIBLE on error.
                * @param mainConnectionID
               virtual am Error e disconnect(const am mainConnectionID t mainConnectionID) =0;
                * sets the volume for a sink
                * @return E OK on success, E UNKOWN on error, E OUT OF RANGE in case the value is out of
range
                * @param sinkID
                                 the sink
                * @param volume
                                 the volume
               virtual am Error e setVolume(const am sinkID t sinkID, const am mainVolume t volume) =0;
```

}

```
^{\star} This function is used to increment or decrement the current volume for a sink.
                * @return E OK on success, E UNKNOWN on error and E OUT OF RANGE if the value is not in
the given volume range.
                * @param sinkID
                * @param volumeStep
                                       indicated the number of steps that should be incremented or
decremented. Positive values here
                * inkrement, negative values decrement
               virtual am Error e volumeStep(const am sinkID t sinkID, const int16 t volumeStep) =0;
               * sets the mute state of a sink
                * @return E OK on success, E UNKNOWN on error. If the mute state is already the desired
one, the Daemon will return E OK.
                * @param sinkID
                * @param muteState
               virtual am Error e setSinkMuteState(const am sinkID t sinkID, const am MuteState e
muteState) = 0;
               \ ^{\star} This method is used to set sound properties, e.g. Equalizer Values. Since the
capabilities of the system can differ,
                ^{\star} the exact key value pairs can be extended in each product
                * @return E OK on success, E OUT OF RANGE if value exceeds range, E UNKNOWN in case of
an error
                * @param soundProperty
                * @param sinkID
               virtual am Error e setMainSinkSoundProperty(const am MainSoundProperty s& soundProperty,
const am sinkID t sinkID) =0;
               \ ^{\star} This method is used to set sound properties, e.g. Equalizer Values. Since the
capabilities of the system can differ,
                * the exact key value pairs can be extended in each product
                * @return E_OK on success, E_OUT_OF_RANGE if value exceeds range, E_UNKNOWN in case of
an error
                * @param soundProperty
                * @param sourceID
               virtual am Error e setMainSourceSoundProperty(const am MainSoundProperty s&
soundProperty, const am sourceID t sourceID) =0;
               * is used to set a specific system property.
               * @return E\_OK on success, E\_OUT\_OF\_RANGE if value exceeds range, E\_UNKNOWN in case of
an error
                * @param property the property that shall be set
               virtual am Error e setSystemProperty(const am SystemProperty s& property) =0;
               \mbox{\scriptsize \star} returns the actual list of MainConnections
                * @return E OK on success, E DATABASE ERROR on error
                * @param listConnections returns a list of all connections
               virtual am Error e getListMainConnections(std::vector<am MainConnectionType s>&
listConnections) const =0;
               /**
               * returns the actual list of Sinks
                * @return E_OK on success, E_DATABASE_ERROR on error
                * @param listMainSinks the list of the sinks
               virtual am Error e getListMainSinks(std::vector<am SinkType s>& listMainSinks) const =0;
                * returns the actual list of Sources
                * @return E OK on success, E DATABASE ERROR on error
```

```
* @param listMainSources the list of sources
              virtual am_Error_e getListMainSources(std::vector<am_SourceType_s>& listMainSources)
const =0;
               ^{\star} This is used to retrieve all source sound properties related to a source. Returns a
vector of the sound properties and
               * values as pair
               * @return E_OK on success, E_DATABASE_ERROR on error
               * @param sinkID
               * @param listSoundProperties
               * /
              virtual am Error e getListMainSinkSoundProperties(const am sinkID t sinkID,
std::vector<am MainSoundProperty s>& listSoundProperties) const =0;
               ^{\star} This is used to retrieve all source sound properties related to a source.
               * @return E OK on success, E DATABASE ERROR on error
               * @param sourceID
               * @param listSourceProperties
              virtual am Error e getListMainSourceSoundProperties(const am sourceID t sourceID,
std::vector<am MainSoundProperty s>& listSourceProperties) const =0;
               ^{\star} This is used to retrieve SourceClass Information of all source classes
               * @return E OK on success, E DATABASE ERROR on error
               * @param listSourceClasses
              virtual am Error e getListSourceClasses(std::vector<am SourceClass s>& listSourceClasses)
const =0;
               * This is used to retrieve SinkClass Information of all sink classes
               * @return E OK on success, E_DATABASE_ERROR on error
               * @param listSinkClasses
              virtual am Error e getListSinkClasses(std::vector<am SinkClass s>& listSinkClasses) const
=0:
               ^{\star} Retrieves a complete list of all {\tt systemProperties.}
               * @return E OK on success, E DATABASE ERROR on error
               * @param listSystemProperties
              virtual am Error e getListSystemProperties(std::vector<am SystemProperty s>&
listSystemProperties) const =0;
               ^{\star} returns the delay in ms that the audiopath for the given mainConnection has
               ^{\star} @return E_OK on success, E_NOT_POSSIBLE if timing information is not yet retrieved,
E DATABASE ERROR on read error on
               * the database
               * @param mainConnectionID
               * @param delay
               */
              virtual am_Error_e getTimingInformation(const am_mainConnectionID_t mainConnectionID,
am timeSync t& delay) const =0;
              /**
               ^{\star} 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
               inclusions away from the interface.
               * The DBusWrapperClass will return the pointer to the DbusConnection call
(getDBusConnection)
              virtual am Error e getDBusConnectionWrapper(CAmDbusWrapper*& dbusConnectionWrapper) const
```

```
* This function returns the pointer to the socketHandler. This can be used to integrate
socket-based activites like
               * communication with the mainloop of the AudioManager.
               * returns E OK if pointer is valid, E UNKNOWN in case AudioManager was compiled without
socketHandler support,
               * @param socketHandler
              virtual am Error e getSocketHandler(CAmSocketHandler*& socketHandler) const =0;
               * asynchronous confirmation of setCommandReady.
               * @param handle
                                  the handle that was handed over by setCommandReady
               * @param error
                                 E OK if the ready command succeeded. E UNKNOWN if an error happened.
              virtual void confirmCommandReady(const uint16_t handle, const am_Error_e error) =0;
               ^{\star} asynchronous confirmation of setCommandRundown
               * @param handle
                                  the handle that was given via setCommandRundown
               * @param error
                                 E OK if the ready command succeeded. E UNKNOWN if an error happened.
              virtual void confirmCommandRundown(const uint16 t handle, const am Error e error) =0;
               ^{\star} Retrieves the list of MainNotifications for a sink. Does not return the possible ones.
               * @param sinkID
                                The sinkID
               * @param listMainNotificationConfigurations
              virtual am Error e getListMainSinkNotificationConfigurations(const am sinkID t sinkID,
std::vector<am_NotificationConfiguration_s>& listMainNotificationConfigurations) const =0;
               * Retrieves the list of MainNotifications for a source. Does not return the possible
ones.
               * @param sourceID
                                  The sourceID
               \hbox{$\star$ @param listMainNotificationConfigurations}\\
              virtual am Error e getListMainSourceNotificationConfigurations(const am sourceID t
sourceID, std::vector<am NotificationConfiguration s>& listMainNotificationConfigurations) const =0;
               ^{\star} sets a MainNotificationConfiuration. This can be used to turn on an off notifications
an to change the mode of the
               * configuration.
               * @return E OK on success, E NON EXISTENT if sinkID does not exists, E DATABASE ERROR on
error
               * @param sinkID
                                 The sinkID of the MainNotification to be changed
               * @param mainNotificationConfiguration
                                                        The MainNotifiication that needs to be set
              virtual am Error e setMainSinkNotificationConfiguration(const am sinkID t sinkID, const
am NotificationConfiguration s& mainNotificationConfiguration) =0;
               ^{\star} sets a MainNotificationConfiuration. This can be used to turn on an off notifications
an to change the mode of the
               * configuration.
               * @return E OK on success, E NON EXISTENT if sourceID does not exists, E DATABASE ERROR
on error
               ^{\star} @param sourceID \,\,\,\, The sourceID of the MainNotification to be changed
               virtual am Error e setMainSourceNotificationConfiguration(const am sourceID t sourceID,
const am NotificationConfiguration s& mainNotificationConfiguration) =0;
#endif // !defined(EA 52591199 D6BE 451e 92F8 032DA5493EF4 INCLUDED )
```

=0:

### 10.2 Command Send

```
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 * This file is part of GENIVI Project AudioManager.
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 * Contribution License Agreements.
 * \copyright
 * This Source Code Form is subject to the terms of the
 * Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with
 * this file, You can obtain one at http://mozilla.org/MPL/2.0/.
 * \author Christian Mueller, christian.linke@bmw.de BMW 2011,2012
 * \file
 * For further information see http://www.genivi.org/.
 * THIS CODE HAS BEEN GENERATED BY ENTERPRISE ARCHITECT GENIVI MODEL. PLEASE CHANGE ONLY IN ENTERPRISE
ARCHITECT AND GENERATE AGAIN
#if !defined(EA_37AC20B5_5E6D_4a3f_BA5F_B3F3CBB21C36__INCLUDED_)
#define EA 37AC20B5 5E6D 4a3f BA5F B3F3CBB21C36 INCLUDED
#include <vector>
#include <string>
#include "audiomanagertypes.h"
namespace am {
class IAmCommandReceive;
#include "IAmCommandReceive.h"
#include "audiomanagertypes.h"
#define CommandSendVersion "2.0"
namespace am {
```

```
^{\star} This interface handles all communication from the AudioManagerDaemon towards the system. It
is designed in such a way
        * that only callbacks with no return types are implemented. So when the CommandInterfacePlugins
are designed in such a
        * way that they broadcast signals to any node who is interested in the particular information
(like signals on Dbus for
         example), more information can be retrieved via the CommandReceiveInterface.
        * There are two rules that have to be kept in mind when implementing against this interface: \n
        * \warning
        * 1. CALLS TO THIS INTERFACE ARE NOT THREAD SAFE !!!! \n
        * 2. YOU MAY NOT CALL THE CALLING INTERFACE DURING AN SYNCHRONOUS OR ASYNCHRONOUS CALL THAT
EXPECTS A RETURN VALUE.\n
        * \details
        * Violation these rules may lead to unexpected behavior! Nevertheless you can implement thread
safe by using the deferred-
        * call pattern described on the wiki which also helps to implement calls that are forbidden.\n
        * For more information, please check CAmSerializer
        * @author Christian Mueller
        * @created 17-Jan-2013 10:00:24
        * /
       class IAmCommandSend
       public:
               IAmCommandSend() {
               virtual ~IAmCommandSend() {
               }
               * returns the interface version as string.
                * @param version
               virtual void getInterfaceVersion(std::string& version) const =0;
               ^{\star} This command starts the interface, the plugin itself. This is not meant to start
communication with the HMI itself. It
                ^{\star} is a good idea to implement here everything that sets up the basic communication like
DbusCommunication etc...
                * Be aware of side effects with systemd and socketbased communication!
                * @return E OK on success, E_UNKNOWN on error
                ^{\star} @param commandreceiveinterface \;\; pointer to the receive interface. Is used to call
the audiomanagerdaemon
               virtual am Error e startupInterface(IAmCommandReceive* commandreceiveinterface) =0;
               ^{\star} This function will indirectly be called by the Controller and is used to start the
Communication. Before this command,
                * all communication will be ignored by the AudioManager.
                * After the Plugin is ready, it will asynchronously answer with condfirmCommandReady,
the handle that is handed over must
                * be returned.
                * @param handle
                                 the handle uniquely idenfies the request
               virtual void setCommandReady(const uint16 t handle) =0;
                \star This function will indirectly be called by the Controller and is used to stop the
Communication. After this command,
                * all communication will be ignored by the AudioManager. The plugin has to be prepared
that either the power will be
                 s switched off or the Interface is started again with setCommandReady
               ^{\star} After the Plugin is ready to rundown, it will asynchronously answer with
condfirmCommandRundown, the handle that is
                * handed over must be returned.
```

```
virtual void setCommandRundown(const uint16 t handle) =0;
               * Callback that is called when the number of connections change
               * @param mainConnection
              virtual void cbNewMainConnection(const am MainConnectionType s& mainConnection) =0;
               * Callback that is called when the number of connections change
               * @param mainConnection
              virtual void cbRemovedMainConnection(const am mainConnectionID t mainConnection) =0;
               * Callback that is called when the number of sinks change
               * @param sink
              virtual void cbNewSink(const am_SinkType_s& sink) =0;
               * Callback that is called when the number of sinks change
               * @param sinkID
              virtual void cbRemovedSink(const am sinkID t sinkID) =0;
               ^{\star} Callback that is called when the number of sources change
               * @param source
              virtual void cbNewSource(const am SourceType s& source) =0;
               * Callback that is called when the number of sources change
               * @param source
              virtual void cbRemovedSource(const am sourceID t source) =0;
               * this callback is fired if the number of sink classes changed
              virtual void cbNumberOfSinkClassesChanged() =0;
               * this callback is fired if the number of source classes changed
              virtual void cbNumberOfSourceClassesChanged() =0;
               ^{\star} This callback is called when the ConnectionState of a connection changed.
               * @param connectionID
               * @param connectionState
              virtual void cbMainConnectionStateChanged(const am mainConnectionID t connectionID, const
am ConnectionState e connectionState) =0;
              /**
               \mbox{\scriptsize \star} this callback indicates that a \mbox{\scriptsize sinkSoundProperty} has changed.
               * @param sinkID
               * @param soundProperty
              virtual void cbMainSinkSoundPropertyChanged(const am sinkID t sinkID, const
am_MainSoundProperty_s& soundProperty) =0;
               * this callback indicates that a sourceSoundProperty has changed.
               * @param sourceID
               * @param soundProperty
              virtual void cbMainSourceSoundPropertyChanged(const am sourceID t sourceID, const
```

```
am MainSoundProperty s& soundProperty) =0;
              * this callback is called when the availability of a sink has changed
               * @param availability
              virtual void cbSinkAvailabilityChanged(const am sinkID t sinkID, const am Availability s&
availability) =0;
              ^{\star} this callback is called when the availability of source has changed.
              * @param sourceID
               * @param availability
              virtual void cbSourceAvailabilityChanged(const am sourceID t sourceID, const
am Availability s& availability) =0;
              \ensuremath{^{\star}} this callback indicates a volume change on the indicated \ensuremath{\operatorname{sink}}
              * @param sinkID
               * @param volume
              * /
              virtual void cbVolumeChanged(const am sinkID t sinkID, const am mainVolume t volume) =0;
              * this callback indicates a mute state change on a sink.
              * @param sinkID
               * @param muteState
              virtual void cbSinkMuteStateChanged(const am sinkID t sinkID, const am MuteState e
muteState) = 0;
              * is fired if a systemProperty changed
               * @param systemProperty
              virtual void cbSystemPropertyChanged(const am SystemProperty s& systemProperty) =0;
              * This callback is fired if the timinginformation for a mainConnectionID changed
              * @param mainConnectionID
               * @param time
              virtual void cbTimingInformationChanged(const am mainConnectionID t mainConnectionID,
const am timeSync t time) =0;
              ^{\star} This callback is called when a sink is updated.
               * @param sinkID The sinkID that is updated
               * @param sinkClassID The sinkClassID of the updated sink. gives the current value
even if not updated
               list of MainSoundProperties even if
              * not changed
              * /
              virtual void cbSinkUpdated(const am sinkID t sinkID, const am sinkClass t sinkClassID,
const std::vector<am MainSoundProperty s>& listMainSoundProperties) =0;
              ^{\star} This callback is called when a source is updated.
               ^{\star} @param sourceID \,\,\,\, The sourceID that is updated
               * @param sourceClassID The sourceClassID of the updated source. Gives the current
value even if not updated
              list of MainSoundProperties even if
              * not changed
              virtual void cbSourceUpdated(const am sourceID t sourceID, const am sourceClass t
sourceClassID, const std::vector<am MainSoundProperty s>& listMainSoundProperties) =0;
```

```
* This callback is called when a notificated value of a sink changes.
               * @param sinkID The sinkID
               virtual void cbSinkNotification(const am sinkID t sinkID, const am NotificationPayload s&
notification) =0;
               \mbox{\scriptsize \star} This callback is called when a notificated value of a source changes.
               * @param sourceID The sourceID
               * @param notification The payload of the notification
              virtual void cbSourceNotification(const am sourceID t sourceID, const
am NotificationPayload s& notification) =0;
               * This callback is triggered when a mainNotificationConfiguration is changed.
               * @param sinkID
               * @param mainNotificationConfiguration The MainNotificationConfiguration that changed
              virtual void cbMainSinkNotificationConfigurationChanged(const am sinkID t sinkID, const
am NotificationConfiguration s& mainNotificationConfiguration) =0;
              ^{\star} This callback is triggered when a mainNotificationConfiguration is changed.
               * @param sourceID
               * @param mainNotificationConfiguration The MainNotificationConfiguration that changed
              virtual void cbMainSourceNotificationConfigurationChanged(const am sourceID t sourceID,
const am_NotificationConfiguration_s& mainNotificationConfiguration) =0;
#endif // !defined(EA 37AC20B5 5E6D 4a3f BA5F B3F3CBB21C36 INCLUDED )
```