# Model

*Package in package ''*

Model
Version   Phase 1.0  Proposed
paclab created on 2019-02-18.  Last modified 2019-02-18

# Analyse

*Package in package 'Model'*

Analyse
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2018-09-04

# Cas d'utilisation

*Package in package 'Analyse'*

Cas d'utilisation
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2018-09-04

## Cas d'utilisation 1.0 diagram

*Use Case diagram in package 'Cas d'utilisation'*

Cas d'utilisation 1.0
Version 1.0
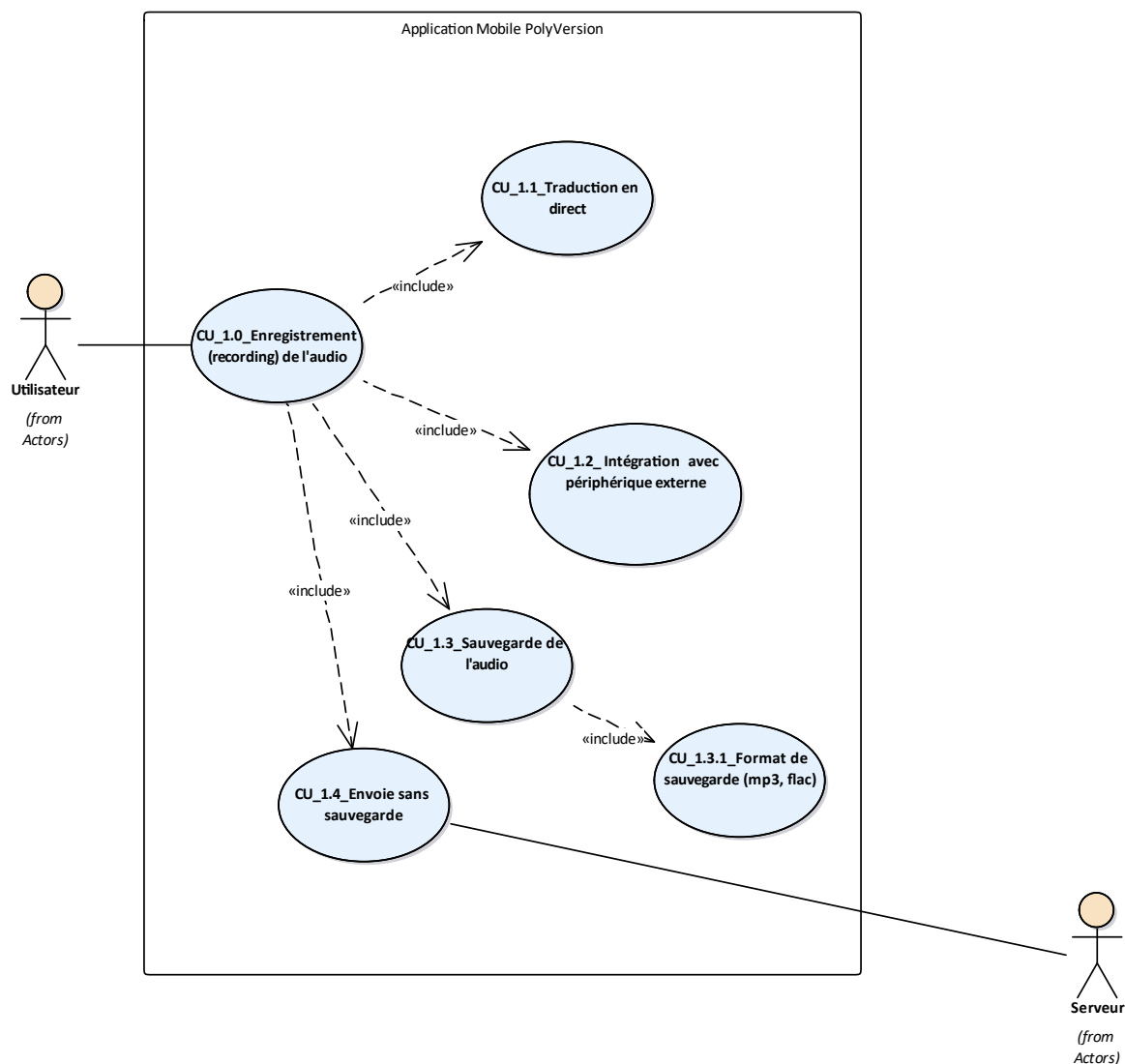paclab created on 2019-01-30.  Last modified 2019-01-30

Figure 1: Cas d'utilisation 1.0

## Application Mobile PolyVersion

*Boundary in package 'Cas d'utilisation'*

Application Mobile PolyVersion
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30
Extends

## Utilisateur

*Actor in package 'Actors'*

-Possède l'application mobile sur un téléphone portable qui supporte l'application PolyVersion
-Initiateur : acteur qui active le système et déclenche le cas.

Utilisateur
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2019-01-30

---

**CONNECTORS**

↗ **UseCaseLink**      Source -> Destination
From:        Utilisateur : Actor, Public
To:          CU_2.0_Gestion de l'audio : UseCase, Public

---

↗ **UseCaseLink**      Source -> Destination
From:        Utilisateur : Actor, Public
To:          CU_4.0_ Configuration des parametres : UseCase, Public

---

↗ **UseCaseLink**      Source -> Destination
From:        Utilisateur : Actor, Public
To:          CU_3.0_Traduction de l'audio : UseCase, Public

---

↗ **UseCaseLink**      Source -> Destination
From:        Utilisateur : Actor, Public
To:          CU_1.0_Enregistrement(recording) de l'audio : UseCase, Public

## Serveur

*Actor in package 'Actors'*

Acteur aidant le système à assumer ses responsabilités.

Serveur
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2019-01-30

---

**CONNECTORS**

↗ **UseCaseLink**      Source -> Destination
From:       CU_4.0_ Configuration des parametres : UseCase, Public
To:         Serveur : Actor, Public

---

↗ **UseCaseLink**      Source -> Destination
From:       CU_1.4_Envoie sans sauvegarde : UseCase, Public
To:         Serveur : Actor, Public

---

**ASSOCIATIONS**

✎ Association (direction: Unspecified)

Source: Public (UseCase) CU_2.3. Envoi de l'audio                    Target: Public (Actor) Serveur

## Cas d'utilisation 2.0 diagram
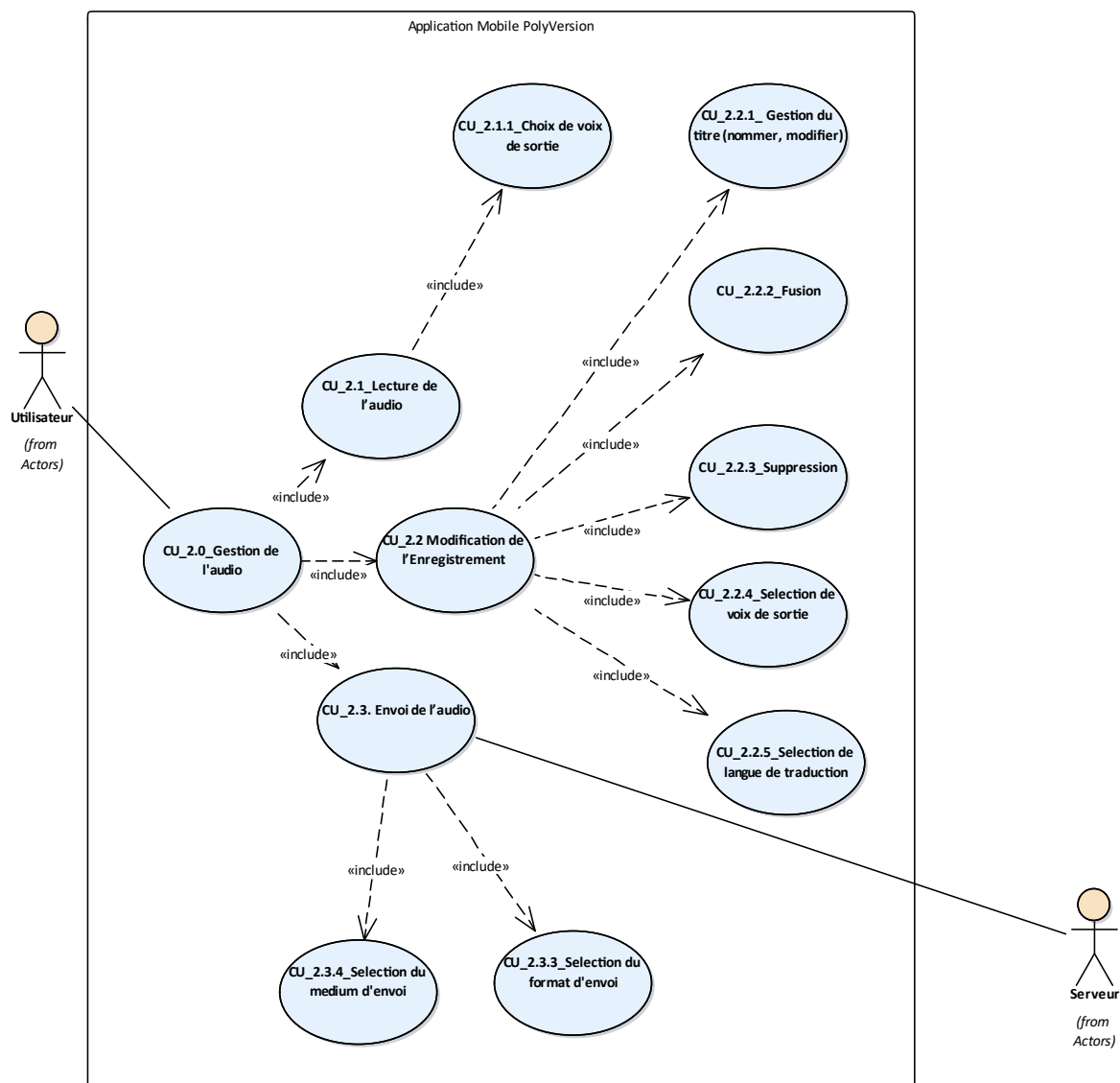
*Use Case diagram in package 'Cas d'utilisation'*

Figure 2: Cas d'utilisation 2.0

## Application Mobile PolyVersion

*Boundary in package 'Cas d'utilisation'*

[Description of the System]

## Utilisateur

*Actor in package 'Actors'*

-Possède l'application mobile sur un téléphone portable qui supporte l'application PolyVersion
-Initiateur : acteur qui active le système et déclenche le cas.

<div align="right">

Utilisateur
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2019-01-30
</div>

### CONNECTORS

**⬀ UseCaseLink**        Source -> Destination
From:        Utilisateur : Actor, Public
To:          CU_2.0_Gestion de l'audio : UseCase, Public

**⬀ UseCaseLink**        Source -> Destination
From:        Utilisateur : Actor, Public
To:          CU_4.0_ Configuration des parametres : UseCase, Public

**⬀ UseCaseLink**        Source -> Destination
From:        Utilisateur : Actor, Public
To:          CU_3.0_Traduction de l'audio : UseCase, Public

**⬀ UseCaseLink**        Source -> Destination
From:        Utilisateur : Actor, Public
To:          CU_1.0_Enregistrement(recording) de l'audio : UseCase, Public

## *Serveur*

*Actor in package 'Actors'*

Acteur aidant le système à assumer ses responsabilités.

<div align="right">

Serveur
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2019-01-30
</div>

### CONNECTORS

**⬀ UseCaseLink**        Source -> Destination
From:        CU_4.0_ Configuration des parametres : UseCase, Public
To:          Serveur : Actor, Public

**⬀ UseCaseLink**        Source -> Destination
From:        CU_1.4_Envoie sans sauvegarde : UseCase, Public
To:          Serveur : Actor, Public

### ASSOCIATIONS

✏ Association (direction: Unspecified)

Source: Public (UseCase) CU_2.3. Envoi de l'audio                    Target: Public (Actor) Serveur

# Cas d'utilisation 3.0 diagram

*Use Case diagram in package 'Cas d'utilisation'*

Cas d'utilisation 3.0
Version 1.0
paclab created on 2019-01-30.  Last modified 2019-01-30

Application Mobile PolyVersion

CU_3.1_Selection langue

«include»

Utilisateur

*(from Actors)*

CU_3.0_Traduction de l'audio

CU_3.2.1_Choix de langues

«include»

«include»

CU_3.2_Traitement de l'audio ( en direct ou audio enregistré)
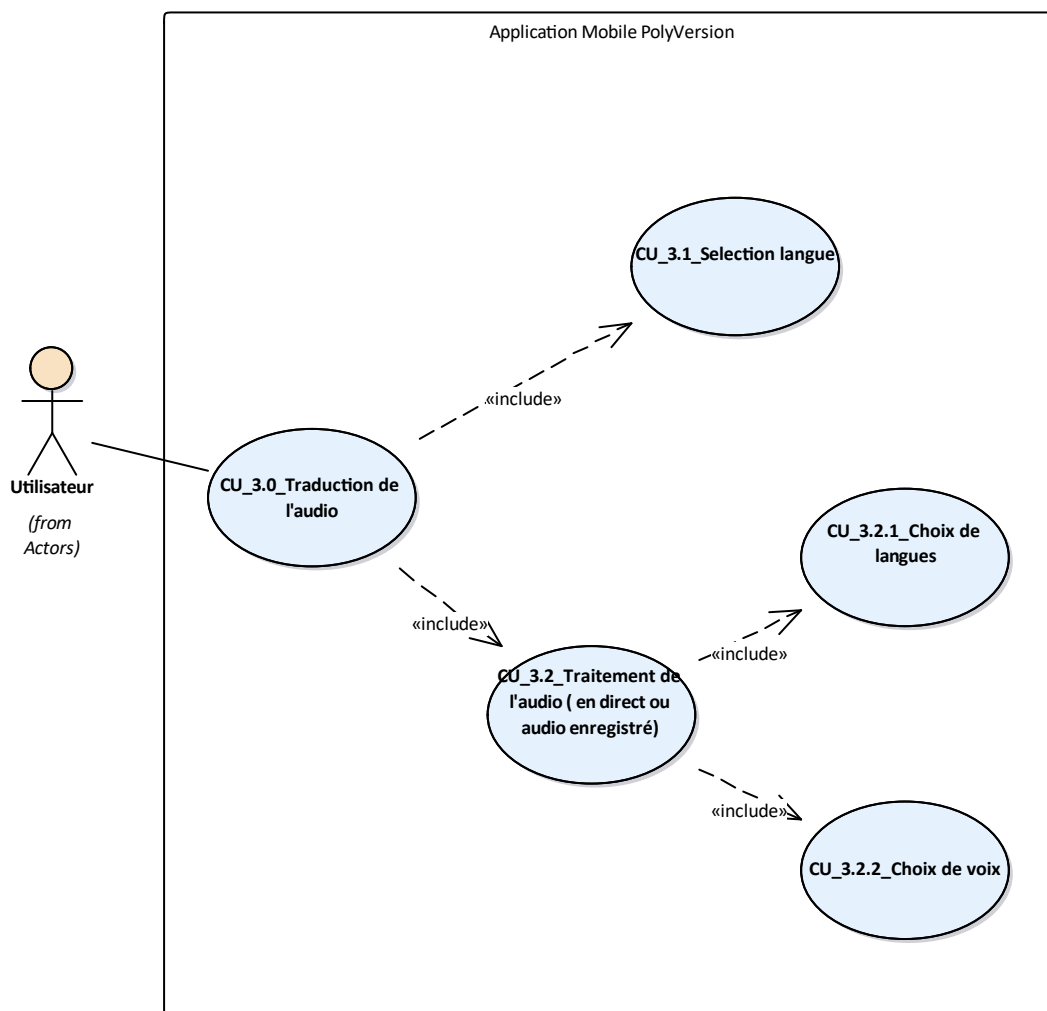
«include»

CU_3.2.2_Choix de voix

Figure 3: Cas d'utilisation 3.0

# Application Mobile PolyVersion

*Boundary in package 'Cas d'utilisation'*

[Description of the System]

Application Mobile PolyVersion
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2019-01-30
Extends

## *Utilisateur*

*Actor in package 'Actors'*

-Possède l'application mobile sur un téléphone portable qui supporte l'application PolyVersion
-Initiateur : acteur qui active le système et déclenche le cas.

Utilisateur
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2019-01-30

| CONNECTORS |
| --- |
| ↗ **UseCaseLink**      Source -> Destination<br>From:        Utilisateur : Actor, Public<br>To:          CU_2.0_Gestion de l'audio : UseCase, Public |
| ↗ **UseCaseLink**      Source -> Destination<br>From:        Utilisateur : Actor, Public<br>To:          CU_4.0_ Configuration des parametres : UseCase, Public |
| ↗ **UseCaseLink**      Source -> Destination<br>From:        Utilisateur : Actor, Public<br>To:          CU_3.0_Traduction de l'audio : UseCase, Public |
| ↗ **UseCaseLink**      Source -> Destination<br>From:        Utilisateur : Actor, Public<br>To:          CU_1.0_Enregistrement(recording) de l'audio : UseCase, Public |

## *Cas d'utilisation 4.0 diagram*

*Use Case diagram in package 'Cas d'utilisation'*

Cas d'utilisation 4.0
Version 1.0
paclab created on 2019-02-12.  Last modified 2019-02-18

Figure 4: Cas d'utilisation 4.0
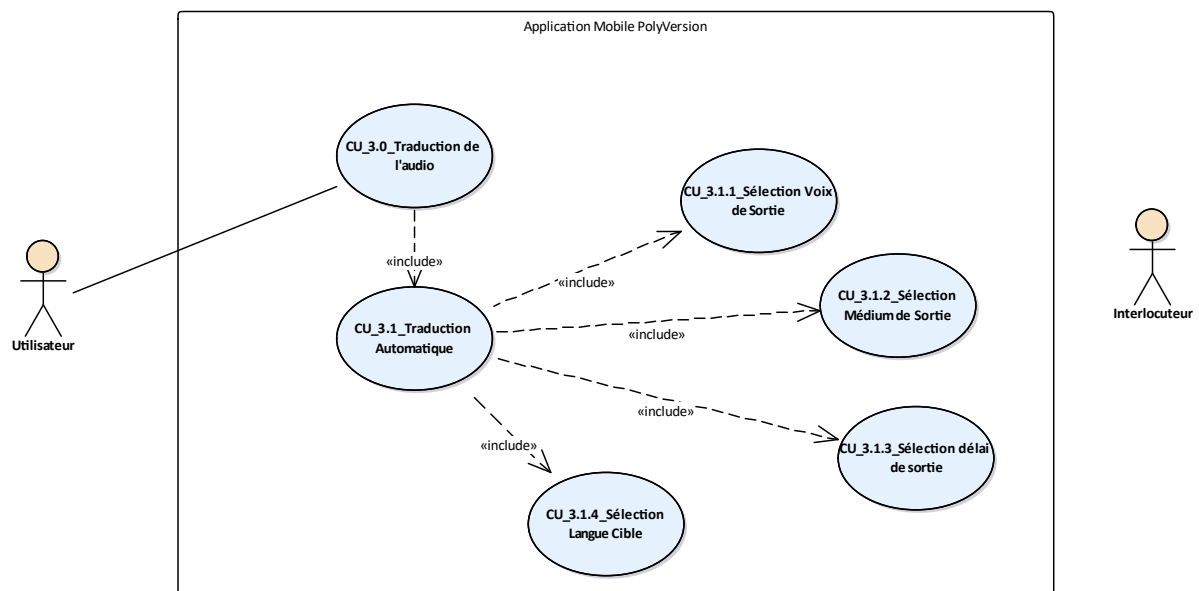
## Application Mobile PolyVersion

*Boundary in package 'Cas d'utilisation'*

Application Mobile PolyVersion
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12
Extends

## Diagramme de contexte diagram

*Use Case diagram in package 'Cas d'utilisation'*

Diagramme de contexte
Version 1.0
francois created on 2018-09-04.  Last modified 2019-01-30
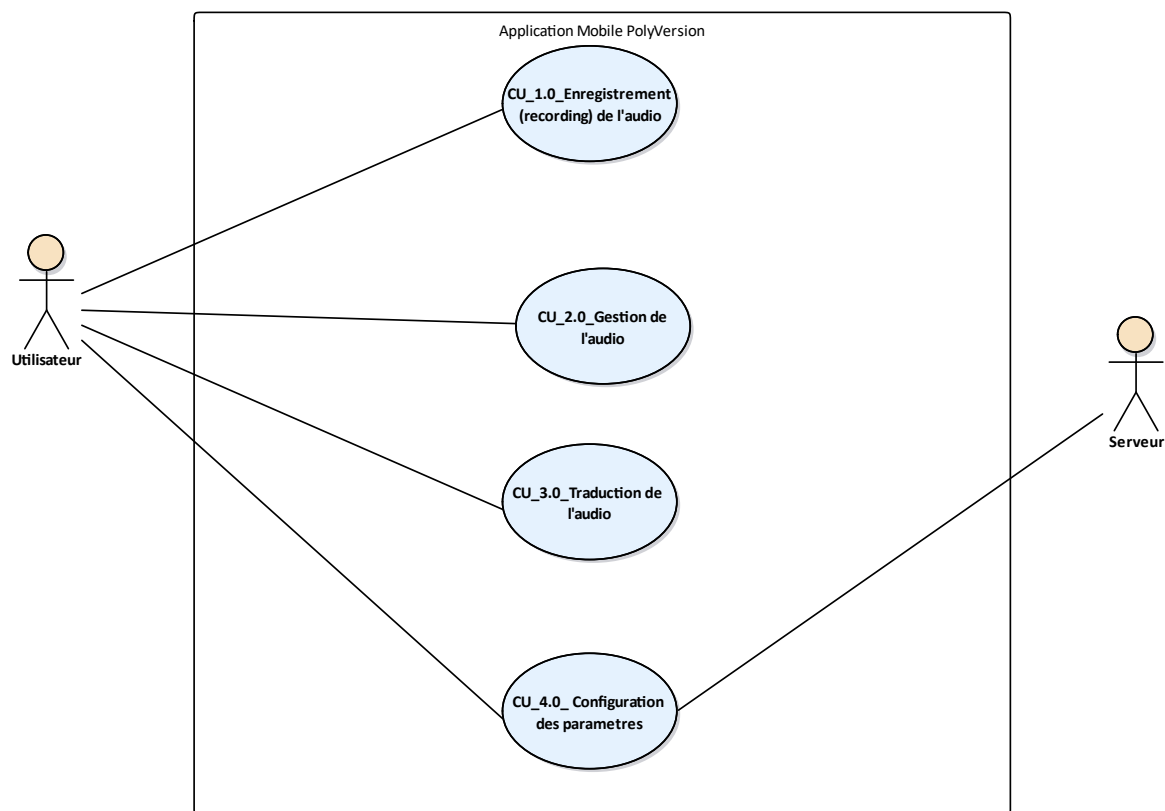
Figure 5: Diagramme de contexte

## Application Mobile PolyVersion

*Boundary in package 'Cas d'utilisation'*

[Description of the System]

Application Mobile PolyVersion
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2019-01-30
Extends

## Utilisateur

*Actor in package 'Actors'*

-Possède l'application mobile sur un téléphone portable qui supporte l'application PolyVersion
-Initiateur : acteur qui active le système et déclenche le cas.

Utilisateur
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2019-01-30

| CONNECTORS |
| --- |
| ↗ **UseCaseLink**      Source -> Destination |
| From:       Utilisateur : Actor, Public |
| To:          CU_2.0_Gestion de l'audio : UseCase, Public |

**CONNECTORS**

↗ **UseCaseLink**      Source -> Destination
From:        Utilisateur : Actor, Public
To:          CU_4.0_ Configuration des parametres : UseCase, Public

↗ **UseCaseLink**      Source -> Destination
From:        Utilisateur : Actor, Public
To:          CU_3.0_Traduction de l'audio : UseCase, Public

↗ **UseCaseLink**      Source -> Destination
From:        Utilisateur : Actor, Public
To:          CU_1.0_Enregistrement(recording) de l'audio : UseCase, Public

## Serveur

*Actor in package 'Actors'*

Acteur aidant le système à assumer ses responsabilités.

Serveur
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2019-01-30

**CONNECTORS**

↗ **UseCaseLink**      Source -> Destination
From:        CU_4.0_ Configuration des parametres : UseCase, Public
To:          Serveur : Actor, Public

↗ **UseCaseLink**      Source -> Destination
From:        CU_1.4_Envoie sans sauvegarde : UseCase, Public
To:          Serveur : Actor, Public

**ASSOCIATIONS**

✎ Association (direction: Unspecified)

Source: Public (UseCase) CU_2.3. Envoi de l'audio                    Target: Public (Actor) Serveur

## Actors

*Package in package 'Cas d'utilisation'*

Contains Actors that represent the roles that users play with respect to the system.

Actors

## Utilisateur

*Actor in package 'Actors'*

-Possède l'application mobile sur un téléphone portable qui supporte l'application PolyVersion
-Initiateur : acteur qui active le système et déclenche le cas.

| CONNECTORS |
| --- |

**UseCaseLink**      Source -> Destination
From:       Utilisateur : Actor, Public
To:         CU_2.0_Gestion de l'audio : UseCase, Public

**UseCaseLink**      Source -> Destination
From:       Utilisateur : Actor, Public
To:         CU_4.0_ Configuration des parametres : UseCase, Public

**UseCaseLink**      Source -> Destination
From:       Utilisateur : Actor, Public
To:         CU_3.0_Traduction de l'audio : UseCase, Public

**UseCaseLink**      Source -> Destination
From:       Utilisateur : Actor, Public
To:         CU_1.0_Enregistrement(recording) de l'audio : UseCase, Public

## Serveur

*Actor in package 'Actors'*

Acteur aidant le système à assumer ses responsabilités.

| CONNECTORS |
| --- |

**UseCaseLink**      Source -> Destination
From:       CU_4.0_ Configuration des parametres : UseCase, Public
To:         Serveur : Actor, Public

**UseCaseLink**      Source -> Destination
From:       CU_1.4_Envoie sans sauvegarde : UseCase, Public
To:         Serveur : Actor, Public

**ASSOCIATIONS**

Association (direction: Unspecified)

Source: Public (UseCase) CU_2.3. Envoi de l'audio          Target: Public (Actor) Serveur

**ASSOCIATIONS**

Association (direction: Unspecified)

## Use Cases

*Package in package 'Cas d'utilisation'*

Contains Use Case that represent the value or goal that the Actors wish to achieve.

<div align="right">

Use Cases
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2018-09-04

</div>

## Interlocuteur

*Actor in package 'Cas d'utilisation'*

Entends la traduction émise par PolyVersion

<div align="right">

Interlocuteur
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

</div>

## Utilisateur

*Actor in package 'Cas d'utilisation'*

<div align="right">

Utilisateur
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

</div>

| ASSOCIATIONS |
| --- |
| ✎  Association (direction: Unspecified) |
| Source: Public (Actor) Utilisateur          Target: Public (UseCase) CU_3.0_Traduction de l'audio |

## CU_1.0_Enregistrement(recording) de l'audio

*UseCase in package 'Cas d'utilisation'*

**CU_1.1_Traduction en direct**
**CU_1.2_ Intégration avec périphérique externe**
**CU_1.3_Sauvegarde de l'audio**
- CU_1.3.1_Format de sauvegarde (mp3, flac)

<div align="right">

CU_1.0_Enregistrement(recording) de l'audio
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

</div>

| SCENARIOS |
| --- |
| ⊞  Basic Path.  Basic Path |
| 1.Scénario : Enregistrement Audio |
| Description du scénario : Ce cas d'utilisation est fondamental pour les utilisations subséquentes du système. Enregistrement audio Permet d'initier l'enregistrement du message audio afin de pouvoir le sauvegarder localement et de le |

**SCENARIOS**

traduire en direct ou pas.

Les parties prenantes et intérêts : Utilisateur et serveur

Préconditions et post conditions : N/A

(voir structured specification pour scénarios alternatifs)

1. utilisateur fait un enregistrement vocal direct avec langue par defaut de parmètre
2. Intégrer l'application PolyVersion à une application produisant un flux audio en sortie, et en particulier aux applications suivantes : téléphonie cellulaire, visionnement de vidéos, visioconférence.
3. Sauvegarder l'audio localement (1.3.1 en choisissant le format (mp3,flac,etc...) )
4. Envoyer le message sans necessairement le sauvegarder localement
5. Traiter l'envoie du message vers le destinataire dans le réseau

---

⚑ Alternate. traduction en direct

utilisateur fait un enregistrement vocal direct avec langue par defaut de parmètre

---

**CONNECTORS**

↗ **Include** «include»     Source -> Destination
From:        CU_1.0_Enregistrement(recording) de l'audio : UseCase, Public
To:          CU_1.3_Sauvegarde de l'audio
 : UseCase, Public

↗ **Include** «include»     Source -> Destination
From:        CU_1.0_Enregistrement(recording) de l'audio : UseCase, Public
To:          CU_1.2_ Intégration  avec périphérique externe

 : UseCase, Public

↗ **Include** «include»     Source -> Destination
From:        CU_1.0_Enregistrement(recording) de l'audio : UseCase, Public
To:          CU_1.4_Envoie sans sauvegarde : UseCase, Public

↗ **Include** «include»     Source -> Destination
From:        CU_1.0_Enregistrement(recording) de l'audio : UseCase, Public
To:          CU_1.1_Traduction en direct : UseCase, Public

↗ **UseCaseLink**     Source -> Destination
From:        Utilisateur : Actor, Public
To:          CU_1.0_Enregistrement(recording) de l'audio : UseCase, Public

## CU_1.1_Traduction en direct

*UseCase in package 'Cas d'utilisation'*

**Traduction en direct**

paclab created on 2019-01-30.  Last modified 2019-01-30

---

**CONNECTORS**

↗ **Include**  «include»     Source -> Destination
From:       CU_1.0_Enregistrement(recording) de l'audio : UseCase, Public
To:         CU_1.1_Traduction en direct : UseCase, Public

---

## CU_1.2_ Intégration  avec périphérique externe

*UseCase in package 'Cas d'utilisation'*

CU_1.2_ Intégration  avec périphérique externe

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

---

**CONNECTORS**

↗ **Include**  «include»     Source -> Destination
From:       CU_1.0_Enregistrement(recording) de l'audio : UseCase, Public
To:         CU_1.2_ Intégration  avec périphérique externe

 : UseCase, Public

---

## CU_1.3.1_Format de sauvegarde (mp3, flac)

*UseCase in package 'Cas d'utilisation'*

CU_1.3.1_Format de sauvegarde (mp3, flac)

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

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**CONNECTORS**

↗ **Include**  «include»     Source -> Destination
From:       CU_1.3_Sauvegarde de l'audio
 : UseCase, Public
To:         CU_1.3.1_Format de sauvegarde (mp3, flac)
 : UseCase, Public

---

## CU_1.3_Sauvegarde de l'audio

---

*UseCase in package 'Cas d'utilisation'*

CU_1.3_Sauvegarde de l'audio

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

---

**CONNECTORS**

↗ **Include**  «include»      Source -> Destination
From:        CU_1.3_Sauvegarde de l'audio
: UseCase, Public
To:            CU_1.3.1_Format de sauvegarde (mp3, flac)
: UseCase, Public

---

↗ **Include**  «include»      Source -> Destination
From:      CU_1.0_Enregistrement(recording) de l'audio : UseCase, Public
To:          CU_1.3_Sauvegarde de l'audio
: UseCase, Public

---

## CU_1.4_Envoie sans sauvegarde

*UseCase in package 'Cas d'utilisation'*

CU_1.4_Envoie sans sauvegarde
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

---

**CONNECTORS**

↗ **UseCaseLink**      Source -> Destination
From:        CU_1.4_Envoie sans sauvegarde : UseCase, Public
To:            Serveur : Actor, Public

---

↗ **Include**  «include»      Source -> Destination
From:      CU_1.0_Enregistrement(recording) de l'audio : UseCase, Public
To:          CU_1.4_Envoie sans sauvegarde : UseCase, Public

---

## CU_2.0_Gestion de l'audio

*UseCase in package 'Cas d'utilisation'*

**CU_2.1_Lecture de l'audio**
- CU_2.1.1_Choix de voix de sortie

**CU_2.2 Modification de l'Enregistrement**
- CU_2.2.1_ Gestion du titre (nommer, modifier)
- CU_2.2.2_Fusion
- CU_2.2.3_Suppression
- CU_2.2.4_Selection de voix de sortie
- CU_2.2.5_Selection de langue de traduction

**CU_2.3. Envoi de l'audio**
- CU_2.3.3_Selection du format d'envoi
- CU_2.3.4_Selection du medium d'envoi

---

CU_2.0_Gestion de l'audio
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

---

### SCENARIOS

⚑ Basic Path.  Basic Path

Préconditions et post conditions : N/A

Scénario : Gestion de l'audio

Description du scénario : Ce scénario permet de gérer les paramètre d'un enregistrement audio. On es en mesure de lire un enregistrement audio, le modifier et envoyer un enregistrement audio existant.

Les parties prenantes et intérêts : Utilisateur et serveur

Préconditions et post conditions : Enregistrement Audio. En effet, il faut qu'un enregistrement aie été fait afin que l'on puisse le gérer.)

(voir structured pecification Une description du (des) scénario(s) alternatif(s) )

1. 2.1 Lire un message audio existant (2.1.1 choix de langue de sortie du flux audio)
2. 2.2 Modification de l'enregistrement audio. On peut: (2.2.1 gestion du titre 2.2.2 Fusion, 2.2.3 Supprimer le message audio, 2.2.4 Sélectionner la VOIX de sortie lors de l'écoute du message audio, 2.2.5 Sélectionner la langue de traduction)
3. 2.3 Envoie de l'audio vers un destinataire pour l'utilisateur:  (2.3.4 sélectionner le medium d'envoi et du 2.3.3 format)
4. 2.3 Envoi de l'audio (Serveur) permet de traiter l'envoie de l'audio dans le réseau.

---

### CONNECTORS

↗ **Include** «include»    Source -> Destination
From:      CU_2.0_Gestion de l'audio : UseCase, Public
To:        CU_2.3. Envoi de l'audio
 : UseCase, Public

---

↗ **Include** «include»    Source -> Destination
From:      CU_2.0_Gestion de l'audio : UseCase, Public
To:        CU_2.1_Lecture de l'audio
 : UseCase, Public

---

⚑ **Include** «include»    Source -> Destination
From:      CU_2.0_Gestion de l'audio : UseCase, Public
To:        CU_2.2 Modification de l'Enregistrement
 : UseCase, Public

---

↗ **UseCaseLink**    Source -> Destination
From:      Utilisateur : Actor, Public
To:        CU_2.0_Gestion de l'audio : UseCase, Public

---

## CU_2.1.1_Choix de voix de sortie

*UseCase in package 'Cas d'utilisation'*

---

paclab created on 2019-01-30.  Last modified 2019-01-30

---

**CONNECTORS**

↗ **Include**  «include»      Source -> Destination
From:        CU_2.1_Lecture de l'audio
 : UseCase, Public
To:            CU_2.1.1_Choix de voix de sortie : UseCase, Public

---

# CU_2.1.1_Lecture

*UseCase in package 'Cas d'utilisation'*

CU_2.1.1_Lecture

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

---

**CONNECTORS**

↗ **Include**  «include»      Source -> Destination
From:        CU_2.1_Lecture de l'audio
 : UseCase, Public
To:            CU_2.1.1_Lecture
 : UseCase, Public

---

# CU_2.1_Lecture de l'audio

*UseCase in package 'Cas d'utilisation'*

CU_2.1_Lecture de l'audio

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

---

**CONNECTORS**

↗ **Include**  «include»      Source -> Destination
From:        CU_2.1_Lecture de l'audio
 : UseCase, Public
To:            CU_2.1.1_Choix de voix de sortie : UseCase, Public

---

↗ **Include**  «include»      Source -> Destination
From:        CU_2.1_Lecture de l'audio
 : UseCase, Public
To:            CU_2.1.1_Lecture
 : UseCase, Public

---

| CONNECTORS |
| --- |

↗ **Include** «include»    Source -> Destination
From:        CU_2.0_Gestion de l'audio : UseCase, Public
To:          CU_2.1_Lecture de l'audio
 : UseCase, Public


# CU_2.2 Modification de l'Enregistrement

*UseCase in package 'Cas d'utilisation'*

CU_2.2 Modification de l'Enregistrement

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

| CONNECTORS |
| --- |

↗ **Include** «include»    Source -> Destination
From:        CU_2.2 Modification de l'Enregistrement
 : UseCase, Public
To:          CU_2.2.1_ Gestion du titre (nommer, modifier)
 : UseCase, Public

↗ **Include** «include»    Source -> Destination
From:        CU_2.2 Modification de l'Enregistrement
 : UseCase, Public
To:          CU_2.2.5_Selection de langue de traduction : UseCase, Public

↗ **Include** «include»    Source -> Destination
From:        CU_2.2 Modification de l'Enregistrement
 : UseCase, Public
To:          CU_2.2.4_Selection de voix de sortie
 : UseCase, Public

↗ **Include** «include»    Source -> Destination
From:        CU_2.2 Modification de l'Enregistrement
 : UseCase, Public
To:          CU_2.2.2_Fusion
 : UseCase, Public

↗ **Include** «include»    Source -> Destination
From:        CU_2.2 Modification de l'Enregistrement
 : UseCase, Public
To:          CU_2.2.3_Suppression
 : UseCase, Public

| CONNECTORS |
|---|
| ↗ **Include** «include»    Source -> Destination<br>From:       CU_2.0_Gestion de l'audio : UseCase, Public<br>To:         CU_2.2 Modification de l'Enregistrement<br> : UseCase, Public |

# CU_2.2.1_ Gestion du titre (nommer, modifier)

*UseCase in package 'Cas d'utilisation'*

CU_2.2.1_ Gestion du titre (nommer, modifier)

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

| CONNECTORS |
|---|
| ↗ **Include** «include»    Source -> Destination<br>From:       CU_2.2 Modification de l'Enregistrement<br> : UseCase, Public<br>To:         CU_2.2.1_ Gestion du titre (nommer, modifier)<br> : UseCase, Public |

# CU_2.2.2_Fusion

*UseCase in package 'Cas d'utilisation'*

CU_2.2.2_Fusion

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

| CONNECTORS |
|---|
| ↗ **Include** «include»    Source -> Destination<br>From:       CU_2.2 Modification de l'Enregistrement<br> : UseCase, Public<br>To:         CU_2.2.2_Fusion<br> : UseCase, Public |

# CU_2.2.3_Suppression

*UseCase in package 'Cas d'utilisation'*

CU_2.2.3_Suppression

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

| CONNECTORS |
| --- |
| ↗ **Include** «include»      Source -> Destination<br>From:        CU_2.2 Modification de l'Enregistrement<br> : UseCase, Public<br>To:            CU_2.2.3_Suppression<br> : UseCase, Public |

# CU_2.2.4_Selection de voix de sortie

*UseCase in package 'Cas d'utilisation'*

CU_2.2.4_Selection de voix de sortie

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

| CONNECTORS |
| --- |
| ↗ **Include** «include»      Source -> Destination<br>From:        CU_2.2 Modification de l'Enregistrement<br> : UseCase, Public<br>To:            CU_2.2.4_Selection de voix de sortie<br> : UseCase, Public |

# CU_2.2.5_Selection de langue de traduction

*UseCase in package 'Cas d'utilisation'*

CU_2.2.5_Selection de langue de traduction
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

| CONNECTORS |
| --- |
| ↗ **Include** «include»      Source -> Destination<br>From:        CU_2.2 Modification de l'Enregistrement<br> : UseCase, Public<br>To:            CU_2.2.5_Selection de langue de traduction : UseCase, Public |

# CU_2.3. Envoi de l'audio

*UseCase in package 'Cas d'utilisation'*

CU_2.3. Envoi de l'audio

**CONNECTORS**

**Include** «include»     Source -> Destination
From:        CU_2.3. Envoi de l'audio
 : UseCase, Public
To:          CU_2.3.1_Envoi d'un fichier audio
 : UseCase, Public

**Include** «include»     Source -> Destination
From:        CU_2.3. Envoi de l'audio
 : UseCase, Public
To:          CU_2.3.3_Selection du format d'envoi
 : UseCase, Public

**Include** «include»     Source -> Destination
From:        CU_2.3. Envoi de l'audio
 : UseCase, Public
To:          CU_2.3.4_Selection du medium d'envoi
 : UseCase, Public

**Include** «include»     Source -> Destination
From:        CU_2.0_Gestion de l'audio : UseCase, Public
To:          CU_2.3. Envoi de l'audio
 : UseCase, Public

**ASSOCIATIONS**

Association (direction: Unspecified)

Source: Public (UseCase) CU_2.3. Envoi de l'audio                 Target: Public (Actor) Serveur

# CU_2.3.1_Envoi d'un fichier audio

*UseCase in package 'Cas d'utilisation'*

CU_2.3.1_Envoi d'un fichier audio

**CONNECTORS**

**Include** «include»     Source -> Destination
From:        CU_2.3. Envoi de l'audio
 : UseCase, Public
To:          CU_2.3.1_Envoi d'un fichier audio
 : UseCase, Public

## CU_2.3.3_Selection du format d'envoi

*UseCase in package 'Cas d'utilisation'*

CU_2.3.3_Selection du format d'envoi

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

| CONNECTORS |
| --- |

↗ **Include** «include»    Source -> Destination
From:      CU_2.3. Envoi de l'audio
 : UseCase, Public
To:        CU_2.3.3_Selection du format d'envoi
 : UseCase, Public

## CU_2.3.4_Selection du medium d'envoi

*UseCase in package 'Cas d'utilisation'*

CU_2.3.4_Selection du medium d'envoi

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

| CONNECTORS |
| --- |

↗ **Include** «include»    Source -> Destination
From:      CU_2.3. Envoi de l'audio
 : UseCase, Public
To:        CU_2.3.4_Selection du medium d'envoi
 : UseCase, Public

## CU_3.0_Traduction de l'audio

*UseCase in package 'Cas d'utilisation'*

L'utilisteur veut traduire un message

CU_3.0_Traduction de l'audio
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-02-12

| SCENARIOS |
| --- |

⊞ Basic Path.  Basic Path

Scénario : Traduction de l'audio

## SCENARIOS

Description du scénario : Permet de traduire un enregistrement audio d'une langue vers la langue sélectionnée et de traiter un flux audio ou un enregistrement audio en choisissant la langue de provenance ainsi que le choix du flux de l'audio (un anglophone ne peut pas avoir une prononciation d'une autre langue.)

Les parties prenantes et intérêts : Utilisateur

Préconditions: Enregistrement audio et gestion des paramètres (on a besoin d'un flux audio pour faire une traducion et on peut telecharger des langue depuis gestion de paramèetre)
Post Conditions: envoyer le message audio

(voir structured specification pour une description du (des) scénario(s) alternatif(s) )

1. L'utilisateur décide de traduire un flux d'audio
2. Option de traduction
3. L'utilisateur décide de traduire un flux d'audio automatiquement
4. Option de traduction Automatique
5. L'utilisateur chosis la voix de sortie
6. Option de traduction Automatique
7. L'utilisateur choisis le medium de sortie
8. Option de traduction Automatique
9. L'utilisateur choisis le délai de sortie
10. Option de traduction Automatique
11. L'utilisateur choisi la langue cible
12. Option de traduction Automatique
13. L'utilisateur parle
14. PolyVersion traduit et emet la traduction

## CONNECTORS

**Include** «include»     Source -> Destination
From:     CU_3.0_Traduction de l'audio : UseCase, Public
To:       CU_3.1_Selection langue
: UseCase, Public

**Include** «include»     Source -> Destination
From:     CU_3.0_Traduction de l'audio : UseCase, Public
To:       CU_3.1_Traduction Automatique : UseCase, Public

**Include** «include»     Source -> Destination
From:     CU_3.0_Traduction de l'audio : UseCase, Public
To:       CU_3.2_Traitement de l'audio ( en direct ou audio enregistré)
: UseCase, Public

**UseCaseLink**     Source -> Destination
From:     Utilisateur : Actor, Public
To:       CU_3.0_Traduction de l'audio : UseCase, Public

## ASSOCIATIONS

Association (direction: Unspecified)

Source: Public (Actor) Utilisateur                              Target: Public (UseCase) CU_3.0_Traduction de l'audio

## CU_3.1.1_Sélection Voix de Sortie

*UseCase in package 'Cas d'utilisation'*

Permet de choisir la voix synthétique avec laquelle sera émis le flux d'audio

CU_3.1.1_Sélection Voix de Sortie
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

| CONNECTORS |
| --- |
| ↗ **Include** «include»      Source -> Destination<br>From:      CU_3.1_Traduction Automatique : UseCase, Public<br>To:          CU_3.1.1_Sélection Voix de Sortie : UseCase, Public |

## CU_3.1.2_Sélection Médium de Sortie

*UseCase in package 'Cas d'utilisation'*

CHoix qui permet de déterminer si le flux audio sera émis par un haut-parleur, aux, telephone, etc.

CU_3.1.2_Sélection Médium de Sortie
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

| CONNECTORS |
| --- |
| ↗ **Include** «include»      Source -> Destination<br>From:      CU_3.1_Traduction Automatique : UseCase, Public<br>To:          CU_3.1.2_Sélection Médium de Sortie : UseCase, Public |

## CU_3.1.3_Sélection délai de sortie

*UseCase in package 'Cas d'utilisation'*

Sélection du délai de sortie lors de la traduction automatique. Cela permet d'avoir un temps entre le flux audio provenant de l'utilisateur et l'emission du flux d'audio traduit qui est emis par PolyVersion

CU_3.1.3_Sélection délai de sortie
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

| CONNECTORS |
| --- |
| ↗ **Include** «include»      Source -> Destination<br>From:      CU_3.1_Traduction Automatique : UseCase, Public<br>To:          CU_3.1.3_Sélection délai de sortie : UseCase, Public |

## CU_3.1.4_Sélection Langue Cible

*UseCase in package 'Cas d'utilisation'*

Choix de la langue cible pour la traduction automatique

CU_3.1.4_Sélection Langue Cible
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

| CONNECTORS |
| --- |
| ↗ **Include** «include»     Source -> Destination <br> From:     CU_3.1_Traduction Automatique : UseCase, Public <br> To:       CU_3.1.4_Sélection Langue Cible : UseCase, Public |

## CU_3.1_Selection langue

*UseCase in package 'Cas d'utilisation'*

CU_3.1_Selection langue

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

| CONNECTORS |
| --- |
| ↗ **Include** «include»     Source -> Destination <br> From:     CU_3.0_Traduction de l'audio : UseCase, Public <br> To:       CU_3.1_Selection langue <br>  : UseCase, Public |

## CU_3.1_Traduction Automatique

*UseCase in package 'Cas d'utilisation'*

traduction d'un flux automatique

CU_3.1_Traduction Automatique
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

| CONNECTORS |
| --- |
| ↗ **Include** «include»     Source -> Destination <br> From:     CU_3.1_Traduction Automatique : UseCase, Public <br> To:       CU_3.1.2_Sélection Médium de Sortie : UseCase, Public |
| ↗ **Include** «include»     Source -> Destination <br> From:     CU_3.1_Traduction Automatique : UseCase, Public <br> To:       CU_3.1.3_Sélection délai de sortie : UseCase, Public |

| CONNECTORS |
| --- |

↗ **Include** «include»     Source -> Destination
From:        CU_3.1_Traduction Automatique : UseCase, Public
To:          CU_3.1.4_Sélection Langue Cible : UseCase, Public

---

↗ **Include** «include»     Source -> Destination
From:        CU_3.1_Traduction Automatique : UseCase, Public
To:          CU_3.1.1_Sélection Voix de Sortie : UseCase, Public

---

↗ **Include** «include»     Source -> Destination
From:        CU_3.0_Traduction de l'audio : UseCase, Public
To:          CU_3.1_Traduction Automatique : UseCase, Public

## CU_3.2.1_Choix de langues

*UseCase in package 'Cas d'utilisation'*

CU_3.2.1_Choix de langues

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

| CONNECTORS |
| --- |

↗ **Include** «include»     Source -> Destination
From:        CU_3.2_Traitement de l'audio ( en direct ou audio enregistré)
 : UseCase, Public
To:          CU_3.2.1_Choix de langues
 : UseCase, Public

## CU_3.2.2_Choix de voix

*UseCase in package 'Cas d'utilisation'*

CU_3.2.2_Choix de voix
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

| CONNECTORS |
| --- |

↗ **Include** «include»     Source -> Destination
From:        CU_3.2_Traitement de l'audio ( en direct ou audio enregistré)
 : UseCase, Public
To:          CU_3.2.2_Choix de voix : UseCase, Public

## CU_3.2_Traitement de l'audio ( en direct ou audio enregistré)

*UseCase in package 'Cas d'utilisation'*

CU_3.2_Traitement de l'audio ( en direct ou audio enregistré)

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

| CONNECTORS |
| --- |
| ↗ **Include** «include»     Source -> Destination<br>From:      CU_3.2_Traitement de l'audio ( en direct ou audio enregistré)<br> : UseCase, Public<br>To:        CU_3.2.1_Choix de langues<br> : UseCase, Public |
| ↗ **Include** «include»     Source -> Destination<br>From:      CU_3.2_Traitement de l'audio ( en direct ou audio enregistré)<br> : UseCase, Public<br>To:        CU_3.2.2_Choix de voix : UseCase, Public |
| ↗ **Include** «include»     Source -> Destination<br>From:      CU_3.0_Traduction de l'audio : UseCase, Public<br>To:        CU_3.2_Traitement de l'audio ( en direct ou audio enregistré)<br> : UseCase, Public |

# CU_4.0_ Configuration des parametres

*UseCase in package 'Cas d'utilisation'*

**CU_4.1_Langues sources (choix de langue)**
- CU_4.1.1_Langue par defaut
- CU_4.1.2_Ajout d'une nouvelle langue (Telechargarer dictionnaire)

**CU_4.2_Qualité audio**
**CU_4.3_Telecharger nouvelle voix (6)**
**CU_4.4_ Mise a jour**
- CU_4.4.1_Vérification de version
- CU_4.4.2_Description de la version
- CU_4.4.3_Mise a jour manuel

CU_4.0_ Configuration des parametres
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-01-30.  Last modified 2019-01-30

| CONNECTORS |
| --- |
| ↗ **UseCaseLink**     Source -> Destination<br>From:      CU_4.0_ Configuration des parametres : UseCase, Public<br>To:        Serveur : Actor, Public |
| ↗ **UseCaseLink**     Source -> Destination<br>From:      Utilisateur : Actor, Public<br>To:        CU_4.0_ Configuration des parametres : UseCase, Public |

# Diagramme de concept

*Package in package 'Analyse'*

## *Starter Class Diagram diagram*

*Class diagram in package 'Diagramme de concept'*

Figure 6:  Starter Class Diagram

# DescriptionLangue

*Class in package 'Diagramme de concept'*

la description de la langue, indique le dictionnaire et sa version

<div align="right">

DescriptionLangue
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-08.  Last modified 2019-02-11

</div>

**ASSOCIATIONS**

   🖉 Association (direction: Source -> Destination)    a une

Source: Public (Class) LangueCible                    Target: Public (Class) DescriptionLangue
  Cardinality:  [1..*]                                 Cardinality:  [1]

   🖉 Association (direction: Source -> Destination)    a une

Source: Public (Class) LangueSource                  Target: Public (Class) DescriptionLangue
  Cardinality:  [1..*]                                 Cardinality:  [1]

# DescriptionMessage

*Class in package 'Diagramme de concept'*

la description du message

<div align="right">

DescriptionMessage
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-08.  Last modified 2019-02-11

</div>

**ATTRIBUTES**

   🔷 Titre : string  Private

                [ Is static True. Containment is Not Specified. ]

**ASSOCIATIONS**

   🖉 Association (direction: Unspecified)    a une

Source: Public (Class) Message                        Target: Public (Class) DescriptionMessage
  Cardinality:  [1..*]                                 Cardinality:  [1]

# DetectionAutomatique

*Class in package 'Diagramme de concept'*

Détecte en direct la langue d'un flux ou message

<div align="right">
DetectionAutomatique<br>
Version 1.0  Phase 1.0  Proposed<br>
maouab created on 2019-02-11.  Last modified 2019-02-11<br>
Extends DetectionLangue
</div>

**OUTGOING STRUCTURAL RELATIONSHIPS**

⬅ Generalization from  DetectionAutomatique to  DetectionLangue

<div align="right">[ Name is fait la.  Direction is 'Source -> Destination'. ]</div>

## *DetectionLangue*

*Class in package 'Diagramme de concept'*

Permet de détecter la langue du flux d'audio ou message

<div align="right">
DetectionLangue<br>
Version 1.0  Phase 1.0  Proposed<br>
maouab created on 2019-02-11.  Last modified 2019-02-11
</div>

**INCOMING STRUCTURAL RELATIONSHIPS**

➡ Generalization  from  DetectionAutomatique to  DetectionLangue

<div align="right">[ Name is fait la.  Direction is 'Source -> Destination'. ]</div>

➡ Generalization  from  DetectionManuel to  DetectionLangue

<div align="right">[ Name is permet.  Direction is 'Source -> Destination'. ]</div>

**ASSOCIATIONS**

🖉 Association (direction: Source -> Destination)    a une

| | |
|---|---|
| Source: Public (Class) Message | Target: Public (Class) DetectionLangue |
| Cardinality:  [0..*] | Cardinality:  [1] |

## *DetectionManuel*

*Class in package 'Diagramme de concept'*

permet a l'utilisateur de choisir la langue de reception en cas d'echec de la detection automatique

<div align="right">
DetectionManuel<br>
Version 1.0  Phase 1.0  Proposed<br>
maouab created on 2019-02-11.  Last modified 2019-02-11<br>
Extends DetectionLangue
</div>

**OUTGOING STRUCTURAL RELATIONSHIPS**

⬅ Generalization from  DetectionManuel to  DetectionLangue

<div align="right">[ Name is permet.  Direction is 'Source -> Destination'. ]</div>

## *DictionnaireLocal*

*Class in package 'Diagramme de concept'*

Dictionnaire disponible en memoire de l'appareil. Permet la traduction sans internet.

DictionnaireLocal
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-08.  Last modified 2019-02-11

### INCOMING STRUCTURAL RELATIONSHIPS

➡ Generalization  from  TelechargerDictionaire to  DictionnaireLocal

[ Name is peut.  Direction is 'Source -> Destination'. ]

### ASSOCIATIONS

✎ Association (direction: Unspecified)    a un

Source: Public (Class) DictionnaireLocal                    Target: Public (Class) LangueCible
    Cardinality:  [1]                                           Cardinality:  [1]

## *EnregistrementMesage*

*Class in package 'Diagramme de concept'*

Concept des multiples actions d'enregistrer

EnregistrementMesage
Version 1.0  Phase 1.0  Proposed
maouab created on 2019-02-11.  Last modified 2019-02-11

### ASSOCIATIONS

✎ Association (direction: Unspecified)    enregistre

Source: Public (Class) Message                             Target: Public (Class) EnregistrementMesage
    Cardinality:  [1..*]                                       Cardinality:  [1..*]

## *FluxAudioEntree*

*Class in package 'Diagramme de concept'*

Flux entrant dans l'application

FluxAudioEntree
Version 1.0  Phase 1.0  Proposed
maouab created on 2019-02-11.  Last modified 2019-02-11

### ASSOCIATIONS

✎ Association (direction: Unspecified)    traite

| ASSOCIATIONS |
| --- |

Source: Public (Class) FluxAudioEntree         Target: Public (Class) TraitementManuel
    Cardinality: [0..*]                  Cardinality: [0..1]

✎ Association (direction: Unspecified)    traite vers

Source: Public (Class) FluxAudioEntree         Target: Public (Class) TraitementAutomatique
    Cardinality: [0..*]                  Cardinality: [0..1]

## *FluxAudioSortie*

*Class in package 'Diagramme de concept'*

Flux audio sortant de l'application

FluxAudioSortie
Version 1.0  Phase 1.0  Proposed
maouab created on 2019-02-11.  Last modified 2019-02-11

| ASSOCIATIONS |
| --- |

✎ Association (direction: Unspecified)    traite vers

Source: Public (Class) FluxAudioSortie         Target: Public (Class) TraitementAutomatique
    Cardinality: [0..*]                  Cardinality: [0..1]

✎ Association (direction: Unspecified)    traite vers

Source: Public (Class) FluxAudioSortie         Target: Public (Class) TraitementManuel
    Cardinality: [0..*]                  Cardinality: [0..1]

## *Format*

*Class in package 'Diagramme de concept'*

ensemble de choix concernant le format de stockage ou d'envoi d'un message

Format
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-08.  Last modified 2019-02-11

| ASSOCIATIONS |
| --- |

✎ Association (direction: Unspecified)    a un

Source: Public (Class) ParamèresMessage         Target: Public (Class) Format
    Cardinality: [1]                  Cardinality: [1..*]

# GestionnaireMessage

*Class in package 'Diagramme de concept'*

Permet de gérer les messages

GestionnaireMessage
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-08.  Last modified 2019-02-11

| ASSOCIATIONS |
| --- |

✎ Association (direction: Source -> Destination)    a un

| Source: Public (Class) Message | Target: Public (Class) GestionnaireMessage |
| --- | --- |
| Cardinality:  [0..*] | Cardinality:  [1] |

# Langue

*Class in package 'Diagramme de concept'*

Concept général de langue

Langue
Version 1.0  Phase 1.0  Proposed
maouab created on 2019-02-11.  Last modified 2019-02-11

| ASSOCIATIONS |
| --- |

✎ Association (direction: Source -> Destination)    est une

| Source: Public (Class) Langue | Target: Public (Class) LangueSource |
| --- | --- |
| Cardinality:  [1..*] | Cardinality:  [1] |

✎ Association (direction: Unspecified)    est une

| Source: Public (Class) Langue | Target: Public (Class) LangueCible |
| --- | --- |
| Cardinality:  [1..*] | Cardinality:  [1] |

✎ Association (direction: Unspecified)    fait le traitement d'une

| Source: Public (Class) TraitementTraductionAudio | Target: Public (Class) Langue |
| --- | --- |
| Cardinality:  [0..*] | Cardinality:  [0..*] |

# LangueCible

*Class in package 'Diagramme de concept'*

Langue dans laquelle on desire traduire le flux/message

LangueCible
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-08.  Last modified 2019-02-11

**ASSOCIATIONS**

✏ Association (direction: Source -> Destination)    a une

Source: Public (Class) LangueCible                    Target: Public (Class) DescriptionLangue
    Cardinality:  [1..*]                                  Cardinality:  [1]

✏ Association (direction: Unspecified)    a une

Source: Public (Class) LangueCible                    Target: Public (Class) VoixSynthétique
    Cardinality:  [1]                                     Cardinality:  [0..*]

✏ Association (direction: Unspecified)    a un

Source: Public (Class) DictionnaireLocal               Target: Public (Class) LangueCible
    Cardinality:  [1]                                     Cardinality:  [1]

✏ Association (direction: Unspecified)    est une

Source: Public (Class) Langue                          Target: Public (Class) LangueCible
    Cardinality:  [1..*]                                  Cardinality:  [1]


# LangueSource

*Class in package 'Diagramme de concept'*

Langue qui doit etre traduction

<div align="right">

LangueSource
Version 1.0  Phase 1.0  Proposed
paclab created on 2018-09-04.  Last modified 2019-02-11

</div>

**ASSOCIATIONS**

✏ Association (direction: Source -> Destination)    a une

Source: Public (Class) LangueSource                    Target: Public (Class) DescriptionLangue
    Cardinality:  [1..*]                                  Cardinality:  [1]

✏ Association (direction: Source -> Destination)    est une

Source: Public (Class) Langue                          Target: Public (Class) LangueSource
    Cardinality:  [1..*]                                  Cardinality:  [1]


# LectureMessageAudio

*Class in package 'Diagramme de concept'*

Lecture avec une voix synthetique et une sortie d'audio(haut parleur, aux, etc) d'un message audio ou textuel

<div align="right">

LectureMessageAudio

</div>

**ASSOCIATIONS**

✎ Association (direction: Unspecified)    peut faire la

Source: Public (Class) Message                     Target: Public (Class) LectureMessageAudio
   Cardinality:  [1..*]                                Cardinality:  [1]

## Message

*Class in package 'Diagramme de concept'*

entité textuel ou audio qui est stocké en mémoire pour le partage, la lecture ou le traitement.

**INCOMING STRUCTURAL RELATIONSHIPS**

➡ Generalization  from  MessageTextuel to  Message

[ Name is est un.  Direction is 'Source -> Destination'. ]

➡ Generalization  from  MessageAudio to  Message

[ Name is est un.  Direction is 'Source -> Destination'. ]

**ASSOCIATIONS**

✎ Association (direction: Unspecified)    peut faire la

Source: Public (Class) Message                     Target: Public (Class) LectureMessageAudio
   Cardinality:  [1..*]                                Cardinality:  [1]

✎ Association (direction: Unspecified)    a une

Source: Public (Class) Message                     Target: Public (Class) DescriptionMessage
   Cardinality:  [1..*]                                Cardinality:  [1]

✎ Association (direction: Source -> Destination)    a un

Source: Public (Class) Message                     Target: Public (Class) GestionnaireMessage
   Cardinality:  [0..*]                                Cardinality:  [1]

✎ Association (direction: Source -> Destination)    peut etre

Source: Public (Class) Message                     Target: Public (Class) Partage
   Cardinality:  [0..*]                                Cardinality:  [1]

✎ Association (direction: Unspecified)    a des

**ASSOCIATIONS**

| | |
|---|---|
| Source: Public (Class) Message | Target: Public (Class) ParamèresMessage |
| Cardinality:  [1..*] | Cardinality:  [1] |

✏ Association (direction: Unspecified)    enregistre

| | |
|---|---|
| Source: Public (Class) Message | Target: Public (Class) EnregistrementMesage |
| Cardinality:  [1..*] | Cardinality:  [1..*] |

✏ Association (direction: Unspecified)

| | |
|---|---|
| Source: Public (Class) Message | Target: Public (Class) TraitementTraductionAudio |

✏ Association (direction: Source -> Destination)    a une

| | |
|---|---|
| Source: Public (Class) Message | Target: Public (Class) DetectionLangue |
| Cardinality:  [0..*] | Cardinality:  [1] |

## *MessageAudio*

*Class in package 'Diagramme de concept'*

Message audio enregistrer

MessageAudio
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-08.  Last modified 2019-02-11
Extends Message

**OUTGOING STRUCTURAL RELATIONSHIPS**

⬅ Generalization from  MessageAudio to  Message

[ Name is est un.  Direction is 'Source -> Destination'. ]

## *MessageTextuel*

*Class in package 'Diagramme de concept'*

Message texte enregistrer

MessageTextuel
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-08.  Last modified 2019-02-11
Extends Message

**OUTGOING STRUCTURAL RELATIONSHIPS**

⬅ Generalization from  MessageTextuel to  Message

[ Name is est un.  Direction is 'Source -> Destination'. ]

## *MiseAJour*

*Class in package 'Diagramme de concept'*

Permet mise a jour de la version du logiciel

MiseAJour
Version 1.0  Phase 1.0  Proposed
maouab created on 2019-02-11.  Last modified 2019-02-11

| INCOMING STRUCTURAL RELATIONSHIPS |
|---|
| ⇒ Generalization  from  ParamètresApplication to  MiseAJour |
| [ Name is verifie.  Direction is 'Source -> Destination'. ] |

## *ParamèresMessage*

*Class in package 'Diagramme de concept'*

Paramètre du message comme langue, version, qualité audio, format audio, etc

ParamèresMessage
Version 1.0  Phase 1.0  Proposed
maouab created on 2019-02-11.  Last modified 2019-02-11

| ASSOCIATIONS |
|---|
| ✏ Association (direction: Unspecified)    a un |
| Source: Public (Class) ParamèresMessage     Target: Public (Class) Format |
| Cardinality:  [1]         Cardinality:  [1..*] |
| ✏ Association (direction: Unspecified)    a un |
| Source: Public (Class) ParamèresMessage     Target: Public (Class) Qualité |
| Cardinality:  [1]         Cardinality:  [1..*] |
| ✏ Association (direction: Unspecified)    a des |
| Source: Public (Class) Message       Target: Public (Class) ParamèresMessage |
| Cardinality:  [1..*]        Cardinality:  [1] |

## *ParamètresApplication*

*Class in package 'Diagramme de concept'*

Concept des multiples paramètres de l'application

ParamètresApplication
Version 1.0  Phase 1.0  Proposed
maouab created on 2019-02-11.  Last modified 2019-02-11
Extends MiseAJour

| OUTGOING STRUCTURAL RELATIONSHIPS |
| --- |

⬅ Generalization from ParamètresApplication to MiseAJour

[ Name is verifie. Direction is 'Source -> Destination'. ]

## *Partage*

*Class in package 'Diagramme de concept'*

Sharing options

Partage
Version 1.0  Phase 1.0  Proposed
maouab created on 2019-02-11.  Last modified 2019-02-11

| ASSOCIATIONS |
| --- |

✏ Association (direction: Source -> Destination)    peut etre

Source: Public (Class) Message                    Target: Public (Class) Partage
Cardinality:  [0..*]                                  Cardinality:  [1]

## *Qualité*

*Class in package 'Diagramme de concept'*

regroupe l'ensemble des choix de qualité d'un enregistrement ou d'un flux

Qualité
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-08.  Last modified 2019-02-11

| ASSOCIATIONS |
| --- |

✏ Association (direction: Unspecified)    a un

Source: Public (Class) ParamèresMessage              Target: Public (Class) Qualité
Cardinality:  [1]                                     Cardinality:  [1..*]

## *TelechargerDictionaire*

*Class in package 'Diagramme de concept'*

permet de telecharger un dictonnaire de l'internet

TelechargerDictionaire
Version 1.0  Phase 1.0  Proposed
maouab created on 2019-02-11.  Last modified 2019-02-11
Extends DictionnaireLocal

| OUTGOING STRUCTURAL RELATIONSHIPS |
| --- |

**OUTGOING STRUCTURAL RELATIONSHIPS**

⬅ Generalization from  TelechargerDictionaire to  DictionnaireLocal

[ Name is peut.  Direction is 'Source -> Destination'. ]

## *TelechargerVoixSynthétique*

*Class in package 'Diagramme de concept'*

Permet de telecharger une nouvelle voix de l'internet

TelechargerVoixSynthétique
Version 1.0  Phase 1.0  Proposed
maouab created on 2019-02-11.  Last modified 2019-02-11
Extends VoixSynthétique

**OUTGOING STRUCTURAL RELATIONSHIPS**

⬅ Generalization from  TelechargerVoixSynthétique to  VoixSynthétique

[ Name is peut.  Direction is 'Source -> Destination'. ]

## *TraitementAutomatique*

*Class in package 'Diagramme de concept'*

TraitementAutomatique
Version 1.0  Phase 1.0  Proposed
maouab created on 2019-02-11.  Last modified 2019-02-11

## *TraitementAutomatique*

*Class in package 'Diagramme de concept'*

Fait le traitement d'un flux automatiquement (en direct)

TraitementAutomatique
Version 1.0  Phase 1.0  Proposed
maouab created on 2019-02-11.  Last modified 2019-02-11
Extends TraitementTraductionAudio

**OUTGOING STRUCTURAL RELATIONSHIPS**

⬅ Generalization from  TraitementAutomatique to  TraitementTraductionAudio

[ Name is peut.  Direction is 'Source -> Destination'. ]

**ASSOCIATIONS**

✏ Association (direction: Unspecified)    traite vers

Source: Public (Class) FluxAudioSortie                    Target: Public (Class) TraitementAutomatique
  Cardinality:  [0..*]                                        Cardinality:  [0..1]

**ASSOCIATIONS**

✎ Association (direction: Unspecified)   traite vers

Source: Public (Class) FluxAudioEntree                    Target: Public (Class) TraitementAutomatique
  Cardinality:  [0..*]                                       Cardinality:  [0..1]


# *TraitementManuel*

*Class in package 'Diagramme de concept'*

Option de traduction manuel (par l'utilisateur)

TraitementManuel
Version 1.0  Phase 1.0  Proposed
maouab created on 2019-02-11.  Last modified 2019-02-11
Extends TraitementTraductionAudio

**OUTGOING STRUCTURAL RELATIONSHIPS**

⬅ Generalization from  TraitementManuel to  TraitementTraductionAudio
                    [ Name is peut.  Direction is 'Source -> Destination'. ]

**ASSOCIATIONS**

✎ Association (direction: Unspecified)   traite vers

Source: Public (Class) FluxAudioSortie                    Target: Public (Class) TraitementManuel
  Cardinality:  [0..*]                                       Cardinality:  [0..1]

✎ Association (direction: Unspecified)   traite

Source: Public (Class) FluxAudioEntree                    Target: Public (Class) TraitementManuel
  Cardinality:  [0..*]                                       Cardinality:  [0..1]


# *TraitementTraductionAudio*

*Class in package 'Diagramme de concept'*

La traduction de la langue et les choix associés (méthode, flux, langue, voix)

TraitementTraductionAudio
Version 1.0  Phase 1.0  Proposed
maouab created on 2019-02-11.  Last modified 2019-02-11

**INCOMING STRUCTURAL RELATIONSHIPS**

➡ Generalization  from  TraitementAutomatique to  TraitementTraductionAudio
                    [ Name is peut.  Direction is 'Source -> Destination'. ]

**INCOMING STRUCTURAL RELATIONSHIPS**

➡ Generalization  from  TraitementManuel to  TraitementTraductionAudio

[ Name is peut.  Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

◆ Activer : bool  Private

[ Is static True. Containment is Not Specified. ]

◆ Delai : float  Private

[ Is static True. Containment is Not Specified. ]

**ASSOCIATIONS**

🖊 Association (direction: Unspecified)    fait le traitement d'une

Source: Public (Class) TraitementTraductionAudio       Target: Public (Class) Langue
    Cardinality:  [0..*]                                     Cardinality:  [0..*]

🖊 Association (direction: Unspecified)

Source: Public (Class) Message                         Target: Public (Class) TraitementTraductionAudio


## VoixSynthétique

*Class in package 'Diagramme de concept'*

Voix d'emission(Speech /Communication) de la langue

VoixSynthétique
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-08.  Last modified 2019-02-11

**INCOMING STRUCTURAL RELATIONSHIPS**

➡ Generalization  from  TelechargerVoixSynthétique to  VoixSynthétique

[ Name is peut.  Direction is 'Source -> Destination'. ]

**ASSOCIATIONS**

🖊 Association (direction: Unspecified)    a une

Source: Public (Class) LangueCible                     Target: Public (Class) VoixSynthétique
    Cardinality:  [1]                                      Cardinality:  [0..*]


## Association

*Association in package 'Diagramme de concept'*

Association
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-08.  Last modified 2019-02-08

*Association in package 'Diagramme de concept'*

Association
Version 1.0  Phase 1.0  Proposed

# Composantes

*Package in package 'Model'*

# Composantes

*Package in package 'Model'*

# Conception

*Package in package 'Model'*

<div align="right">

Conception
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2018-09-04
</div>

# Diagramme de Séquece diagram

*Interaction diagram in package 'Conception'*

<div align="right">

Diagramme de Séquece
Version 1.0
paclab created on 2019-02-12.  Last modified 2019-02-18
</div>
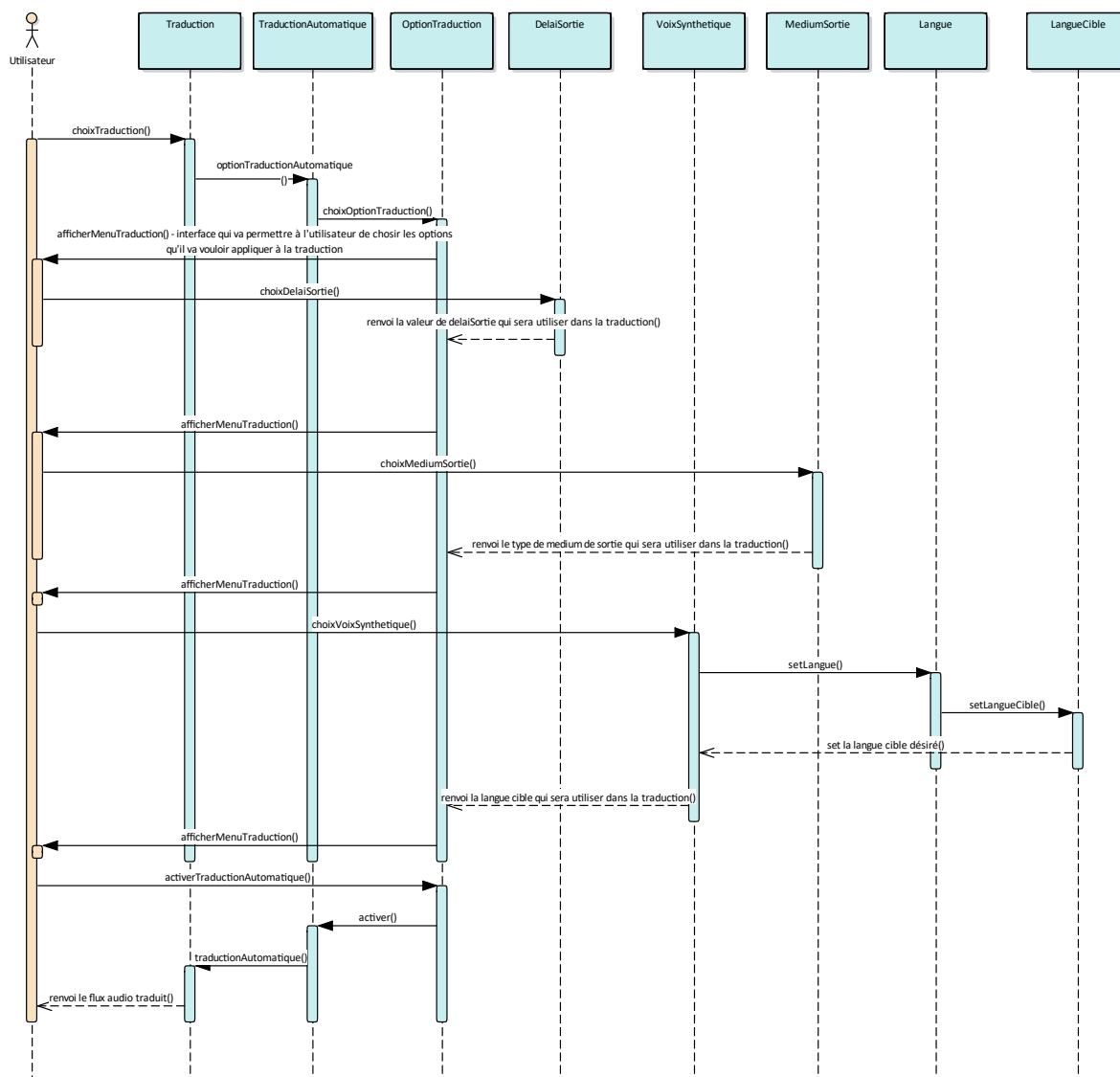
Figure 7: Diagramme de Séquece

**INTERACTION MESSAGES**

✉ **1.0 'choixTraduction()'** from 'Utilisateur' sent to 'Traduction'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.1 'optionTraductionAutomatique()'** from 'Traduction' sent to 'TraductionAutomatique'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.2 'choixOptionTraduction'** from 'TraductionAutomatique' sent to 'OptionTraduction'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.3 'afficherMenuTraduction() - interface qui va permettre à l'utilisateur de chosir les options qu'il va vouloir appliquer à la traduction'** from 'OptionTraduction' sent to 'Utilisateur'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.4 'choixDelaiSortie'** from 'Utilisateur' sent to 'DelaiSortie'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.5 'renvoi la valeur de delaiSortie qui sera utiliser dans la traduction'** from 'DelaiSortie' sent to 'OptionTraduction'.

Synchronous Call.  Returns void.

[ Return is True.  Iteration is False.  New group is False. ]

✉ **1.6 'afficherMenuTraduction'** from 'OptionTraduction' sent to 'Utilisateur'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.7 'choixMediumSortie'** from 'Utilisateur' sent to 'MediumSortie'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.8 'renvoi le type de medium de sortie qui sera utiliser dans la traduction'** from 'MediumSortie' sent to 'OptionTraduction'.

Synchronous Call.  Returns void.

[ Return is True.  Iteration is False.  New group is False. ]

✉ **1.9 'afficherMenuTraduction()'** from 'OptionTraduction' sent to 'Utilisateur'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.10 'choixVoixSynthetique'** from 'Utilisateur' sent to 'VoixSynthetique'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.11 'setLangue'** from 'VoixSynthetique' sent to 'Langue'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.12 'setLangueCible'** from 'Langue' sent to 'LangueCible'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.13 'set la langue cible désiré'** from 'LangueCible' sent to 'VoixSynthetique'.

Synchronous Call.  Returns void.

[ Return is True.  Iteration is False.  New group is False. ]

✉ **1.14 'renvoi la langue cible qui sera utiliser dans la traduction'** from 'VoixSynthetique' sent to 'OptionTraduction'.

Synchronous Call.  Returns void.

[ Return is True.  Iteration is False.  New group is False. ]

✉ **1.15 'afficherMenuTraduction'** from 'OptionTraduction' sent to 'Utilisateur'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.16 'activerTraductionAutomatique'** from 'Utilisateur' sent to 'OptionTraduction'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.17 'activer'** from 'OptionTraduction' sent to 'TraductionAutomatique'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.18 'traductionAutomatique'** from 'TraductionAutomatique' sent to 'Traduction'.

Synchronous Call.  Returns void.

[ Return is False.  Iteration is False.  New group is False. ]

✉ **1.19 'renvoi le flux audio traduit'** from 'Traduction' sent to 'Utilisateur'.

Synchronous Call.  Returns void.

[ Return is True.  Iteration is False.  New group is False. ]

## Diagramme de classes

*Package in package 'Conception'*

Diagramme de classes
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2018-09-04

## *Diagramme de classe diagram*

*Class diagram in package 'Diagramme de classes'*

Diagramme de classe
Version 1.0
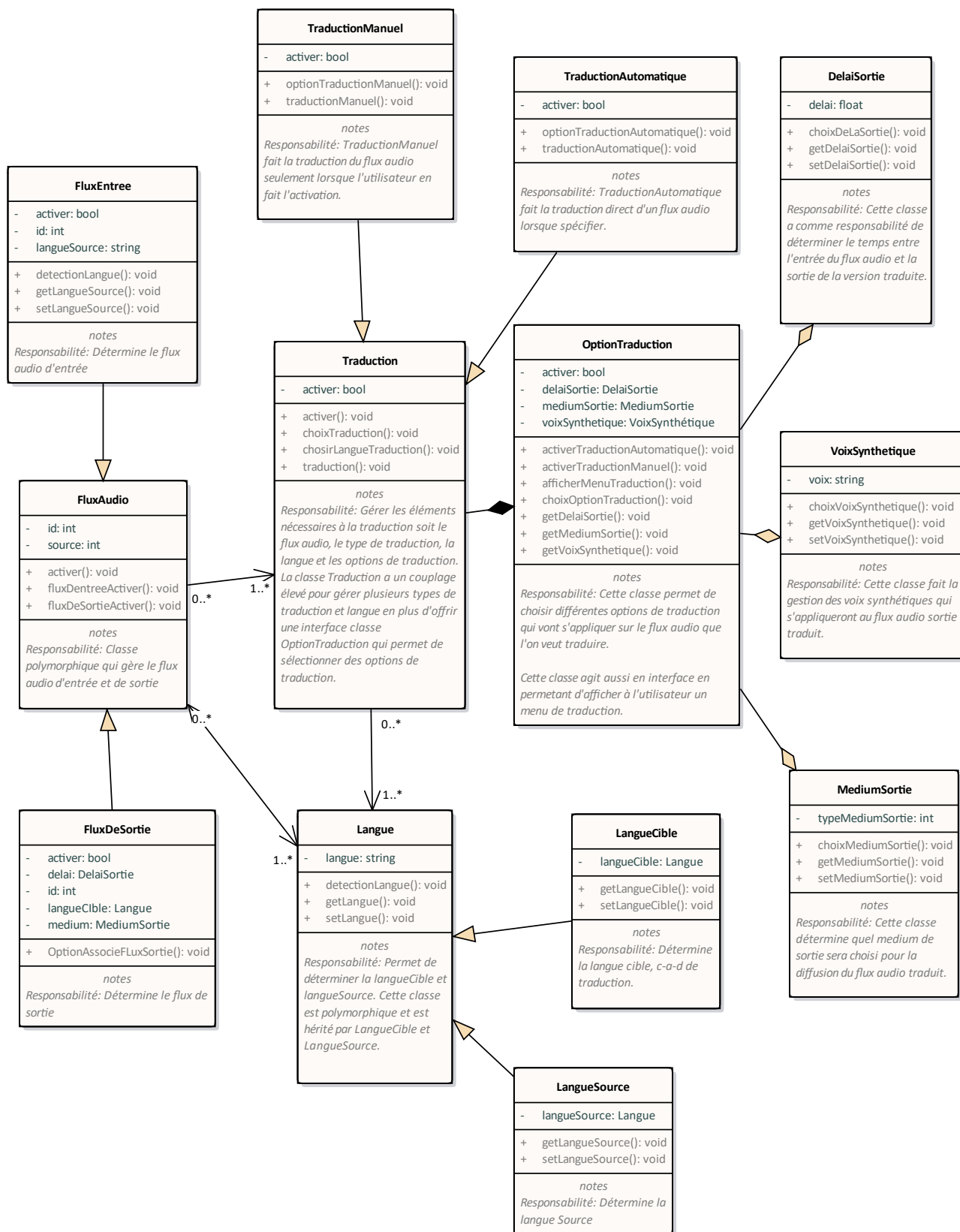francois created on 2018-09-04.  Last modified 2019-02-18

## Diagramme de classes

*Package in package 'Conception'*

**TraductionManuel**

- activer: bool

+ optionTraductionManuel(): void
+ traductionManuel(): void

*notes*
*Responsabilité: TraductionManuel fait la traduction du flux audio seulement lorsque l'utilisateur en fait l'activation.*

**TraductionAutomatique**

- activer: bool

+ optionTraductionAutomatique(): void
+ traductionAutomatique(): void

*notes*
*Responsabilité: TraductionAutomatique fait la traduction direct d'un flux audio lorsque spécifier.*

**DelaiSortie**

- delai: float

+ choixDeLaSortie(): void
+ getDelaiSortie(): void
+ setDelaiSortie(): void

*notes*
*Responsabilité: Cette classe a comme responsabilité de déterminer le temps entre l'entrée du flux audio et la sortie de la version traduite.*

**FluxEntree**

- activer: bool
- id: int
- langueSource: string

+ detectionLangue(): void
+ getLangueSource(): void
+ setLangueSource(): void

*notes*
*Responsabilité: Détermine le flux audio d'entrée*

**Traduction**

- activer: bool

+ activer(): void
+ choixTraduction(): void
+ chosirLangueTraduction(): void
+ traduction(): void

*notes*
*Responsabilité: Gérer les éléments nécessaires à la traduction soit le flux audio, le type de traduction, la langue et les options de traduction. La classe Traduction a un couplage élevé pour gérer plusieurs types de traduction et langue en plus d'offrir une interface classe OptionTraduction qui permet de sélectionner des options de traduction.*

**OptionTraduction**

- activer: bool
- delaiSortie: DelaiSortie
- mediumSortie: MediumSortie
- voixSynthetique: VoixSynthétique

+ activerTraductionAutomatique(): void
+ activerTraductionManuel(): void
+ afficherMenuTraduction(): void
+ choixOptionTraduction(): void
+ getDelaiSortie(): void
+ getMediumSortie(): void
+ getVoixSynthetique(): void

*notes*
*Responsabilité: Cette classe permet de choisir différentes options de traduction qui vont s'appliquer sur le flux audio que l'on veut traduire.*

*Cette classe agit aussi en interface en permettant d'afficher à l'utilisateur un menu de traduction.*

**VoixSynthetique**

- voix: string

+ choixVoixSynthetique(): void
+ getVoixSynthetique(): void
+ setVoixSynthetique(): void

*notes*
*Responsabilité: Cette classe fait la gestion des voix synthétiques qui s'appliqueront au flux audio sortie traduit.*

**FluxAudio**

- id: int
- source: int

+ activer(): void
+ fluxDentreeActiver(): void
+ fluxDeSortieActiver(): void

*notes*
*Responsabilité: Classe polymorphique qui gère le flux audio d'entrée et de sortie*

0..*         1..*

**MediumSortie**

- typeMediumSortie: int

+ choixMediumSortie(): void
+ getMediumSortie(): void
+ setMediumSortie(): void

*notes*
*Responsabilité: Cette classe détermine quel medium de sortie sera choisi pour la diffusion du flux audio traduit.*

**FluxDeSortie**

- activer: bool
- delai: DelaiSortie
- id: int
- langueCible: Langue
- medium: MediumSortie

+ OptionAssocieFLuxSortie(): void

*notes*
*Responsabilité: Détermine le flux de sortie*

0..*

**Langue**

- langue: string

+ detectionLangue(): void
+ getLangue(): void
+ setLangue(): void

*notes*
*Responsabilité: Permet de déterminer la langueCible et langueSource. Cette classe est polymorphique et est hérité par LangueCible et LangueSource.*

1..*

**LangueCible**

- langueCible: Langue

+ getLangueCible(): void
+ setLangueCible(): void

*notes*
*Responsabilité: Détermine la langue cible, c-a-d de traduction.*

**LangueSource**

- langueSource: Langue

+ getLangueSource(): void
+ setLangueSource(): void

*notes*
*Responsabilité: Détermine la langue Source*

Figure 8:  Diagramme de classe

# DelaiSortie

*Class in package 'Diagramme de classes'*

Responsabilité: Cette classe a comme responsabilité de déterminer le temps entre l'entrée du flux audio et la sortie de la version traduite.

<div align="right">

DelaiSortie
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-18

</div>

### INCOMING STRUCTURAL RELATIONSHIPS

➡ Aggregation  from  OptionTraduction to  DelaiSortie

[ Direction is 'Source -> Destination'. ]

### ATTRIBUTES

🔹 delai : float  Private

[ Is static True. Containment is Not Specified. ]

### OPERATIONS

🔹 choixDeLaSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔹 getDelaiSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔹 setDelaiSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

## *FluxAudio*

*Class in package 'Diagramme de classes'*

Responsabilité: Classe polymorphique qui gère le flux audio d'entrée et de sortie

<div align="right">

FluxAudio
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-18

</div>

### INCOMING STRUCTURAL RELATIONSHIPS

➡ Generalization  from  FluxEntree to  FluxAudio

[ Direction is 'Source -> Destination'. ]

➡ Generalization  from  FluxDeSortie to  FluxAudio

[ Direction is 'Source -> Destination'. ]

### ATTRIBUTES

🔹 id : int  Private

[ Is static True. Containment is Not Specified. ]

## ATTRIBUTES

◆ source : int  Private

[ Is static True. Containment is Not Specified. ]

## ASSOCIATIONS

✎ Association (direction: Bi-Directional)

Source: Public (Class) FluxAudio

Cardinality:  [0..*]

Target: Public (Class) Langue

Cardinality:  [1..*]

✎ Association (direction: Source -> Destination)

Source: Public (Class) FluxAudio

Cardinality:  [0..*]

Target: Public (Class) Traduction

Cardinality:  [1..*]

## OPERATIONS

◆ activer () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ fluxDentreeActiver () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ fluxDeSortieActiver () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

## *FluxDeSortie*

*Class in package 'Diagramme de classes'*

Responsabilité: Détermine le flux de sortie

FluxDeSortie
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-18
Extends FluxAudio

## OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Generalization from  FluxDeSortie to  FluxAudio

[ Direction is 'Source -> Destination'. ]

## ATTRIBUTES

◆ activer : bool  Private

[ Is static True. Containment is Not Specified. ]

| ATTRIBUTES | |
|---|---|
| ◆ delai : DelaiSortie  Private | [ Is static True. Containment is Not Specified. ] |
| ◆ id : int  Private | [ Is static True. Containment is Not Specified. ] |
| ◆ langueCIble : Langue  Private | [ Is static True. Containment is Not Specified. ] |
| ◆ medium : MediumSortie  Private | [ Is static True. Containment is Not Specified. ] |

| OPERATIONS | |
|---|---|
| ◆ OptionAssocieFLuxSortie () : void Public | [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

## FluxEntree

*Class in package 'Diagramme de classes'*

Responsabilité: Détermine le flux audio d'entrée

<div align="right">

FluxEntree
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-18
Extends FluxAudio

</div>

| OUTGOING STRUCTURAL RELATIONSHIPS | |
|---|---|
| ⇐ Generalization from  FluxEntree to  FluxAudio | [ Direction is 'Source -> Destination'. ] |

| ATTRIBUTES | |
|---|---|
| ◆ activer : bool  Private | [ Is static True. Containment is Not Specified. ] |
| ◆ id : int  Private | [ Is static True. Containment is Not Specified. ] |
| ◆ langueSource : string  Private | [ Is static True. Containment is Not Specified. ] |

| OPERATIONS |
|---|
| |

**OPERATIONS**

🔶 detectionLangue () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔶 getLangueSource () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔶 setLangueSource () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

## *Langue*

*Class in package 'Diagramme de classes'*

Responsabilité: Permet de déterminer la langueCible et langueSource. Cette classe est polymorphique et est hérité par LangueCible et LangueSource.

Langue
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-18

**INCOMING STRUCTURAL RELATIONSHIPS**

➡ Generalization  from  LangueCible to  Langue

[ Direction is 'Source -> Destination'. ]

➡ Generalization  from  LangueSource to  Langue

[ Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

🔷 langue : string  Private

[ Is static True. Containment is Not Specified. ]

**ASSOCIATIONS**

✏ Association (direction: Bi-Directional)

Source: Public (Class) FluxAudio                             Target: Public (Class) Langue
  Cardinality:  [0..*]                                                    Cardinality:  [1..*]

✏ Association (direction: Source -> Destination)

Source: Public (Class) Traduction                            Target: Public (Class) Langue
  Cardinality:  [0..*]                                                    Cardinality:  [1..*]

**OPERATIONS**

🔶 detectionLangue () : void Public

| OPERATIONS |
| --- |
| [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| 🔷 getLangue () : void Public<br><br>[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| 🔷 setLangue () : void Public<br><br>[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

## *LangueCible*

*Class in package 'Diagramme de classes'*

Responsabilité: Détermine la langue cible, c-a-d de traduction.

LangueCible
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-18
Extends Langue

| OUTGOING STRUCTURAL RELATIONSHIPS |
| --- |
| ⬅ Generalization from  LangueCible to  Langue<br><br>[ Direction is 'Source -> Destination'. ] |

| ATTRIBUTES |
| --- |
| 🔷 langueCible : Langue  Private<br><br>[ Is static True. Containment is Not Specified. ] |

| OPERATIONS |
| --- |
| 🔷 getLangueCible () : void Public<br><br>[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| 🔷 setLangueCible () : void Public<br><br>[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

## *LangueSource*

*Class in package 'Diagramme de classes'*

Responsabilité: Détermine la langue Source

LangueSource
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-18
Extends Langue

## OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Generalization from  LangueSource to  Langue

[ Direction is 'Source -> Destination'. ]

## ATTRIBUTES

◆ langueSource : Langue  Private

[ Is static True. Containment is Not Specified. ]

## OPERATIONS

◆ getLangueSource () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ setLangueSource () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

# *MediumSortie*

*Class in package 'Diagramme de classes'*

Responsabilité: Cette classe détermine quel medium de sortie sera choisi pour la diffusion du flux audio traduit.

MediumSortie
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-18

## INCOMING STRUCTURAL RELATIONSHIPS

➡ Aggregation  from  OptionTraduction to  MediumSortie

[ Direction is 'Source -> Destination'. ]

## ATTRIBUTES

◆ typeMediumSortie : int  Private

[ Is static True. Containment is Not Specified. ]

## OPERATIONS

◆ choixMediumSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ getMediumSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ setMediumSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

# *OptionTraduction*

*Class in package 'Diagramme de classes'*

Responsabilité: Cette classe permet de choisir différentes options de traduction qui vont s'appliquer sur le flux audio que l'on veut traduire.

Cette classe agit aussi en interface en permetant d'afficher à l'utilisateur un menu de traduction.

OptionTraduction
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-18

| OUTGOING STRUCTURAL RELATIONSHIPS |
|---|
| ⬅ Aggregation from  OptionTraduction to  VoixSynthetique |
| [ Direction is 'Source -> Destination'. ] |
| ⬅ Aggregation from  OptionTraduction to  DelaiSortie |
| [ Direction is 'Source -> Destination'. ] |
| ⬅ Aggregation from  OptionTraduction to  MediumSortie |
| [ Direction is 'Source -> Destination'. ] |

| INCOMING STRUCTURAL RELATIONSHIPS |
|---|
| ➡ Aggregation  from  Traduction to  OptionTraduction |
| [ Direction is 'Source -> Destination'. ] |

| ATTRIBUTES |
|---|
| ◆ activer : bool  Private |
| [ Is static True. Containment is Not Specified. ] |
| ◆ delaiSortie : DelaiSortie  Private |
| [ Is static True. Containment is Not Specified. ] |
| ◆ mediumSortie : MediumSortie  Private |
| [ Is static True. Containment is Not Specified. ] |
| ◆ voixSynthetique : VoixSynthétique  Private |
| [ Is static True. Containment is Not Specified. ] |

| OPERATIONS |
|---|
| ◆ activerTraductionAutomatique () : void Public |
| [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

| OPERATIONS |
| --- |

◆ activerTraductionManuel () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ afficherMenuTraduction () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ choixOptionTraduction () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ getDelaiSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ getMediumSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ getVoixSynthetique () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

## *Traduction*

*Class in package 'Diagramme de classes'*

Responsabilité: Gérer les éléments nécessaires à la traduction soit le flux audio, le type de traduction, la langue et les options de traduction. La classe Traduction a un couplage élevé pour gérer plusieurs types de traduction et langue en plus d'offrir une interface classe OptionTraduction qui permet de sélectionner des options de traduction.

Traduction
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-18

| OUTGOING STRUCTURAL RELATIONSHIPS |
| --- |

⬅ Aggregation from  Traduction to  OptionTraduction

[ Direction is 'Source -> Destination'. ]

| INCOMING STRUCTURAL RELATIONSHIPS |
| --- |

➡ Generalization  from  TraductionManuel to  Traduction

[ Direction is 'Source -> Destination'. ]

➡ Generalization  from  TraductionAutomatique to  Traduction

[ Direction is 'Source -> Destination'. ]

| ATTRIBUTES |
| --- |

◆ activer : bool  Private

[ Is static True. Containment is Not Specified. ]

## ATTRIBUTES

## ASSOCIATIONS

✏ Association (direction: Source -> Destination)

Source: Public (Class) Traduction
  Cardinality:  [0..*]

Target: Public (Class) Langue
  Cardinality:  [1..*]

✏ Association (direction: Source -> Destination)

Source: Public (Class) FluxAudio
  Cardinality:  [0..*]

Target: Public (Class) Traduction
  Cardinality:  [1..*]

## OPERATIONS

🔶 activer () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔶 choixTraduction () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔶 chosirLangueTraduction () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔶 traduction () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

## TraductionAutomatique

*Class in package 'Diagramme de classes'*

Responsabilité: TraductionAutomatique fait la traduction direct d'un flux audio lorsque spécifier.

TraductionAutomatique
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-18
Extends Traduction

## OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Generalization from  TraductionAutomatique to  Traduction

[ Direction is 'Source -> Destination'. ]

## ATTRIBUTES

🔷 activer : bool  Private

[ Is static True. Containment is Not Specified. ]

| OPERATIONS |
|---|

◆ optionTraductionAutomatique () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ traductionAutomatique () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

## TraductionManuel

*Class in package 'Diagramme de classes'*

Responsabilité: TraductionManuel fait la traduction du flux audio seulement lorsque l'utilisateur en fait l'activation.

TraductionManuel
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-18
Extends Traduction

| OUTGOING STRUCTURAL RELATIONSHIPS |
|---|

⬅ Generalization from  TraductionManuel to  Traduction

[ Direction is 'Source -> Destination'. ]

| ATTRIBUTES |
|---|

◆ activer : bool  Private

[ Is static True. Containment is Not Specified. ]

| OPERATIONS |
|---|

◆ optionTraductionManuel () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ traductionManuel () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

## VoixSynthetique

*Class in package 'Diagramme de classes'*

Responsabilité: Cette classe fait la gestion des voix synthétiques qui s'appliqueront au flux audio sortie traduit.

VoixSynthetique
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-18

| INCOMING STRUCTURAL RELATIONSHIPS |
|---|

**INCOMING STRUCTURAL RELATIONSHIPS**

➡ Aggregation  from  OptionTraduction to  VoixSynthetique

[ Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

◆ voix : string  Private

[ Is static True. Containment is Not Specified. ]

**OPERATIONS**

◆ choixVoixSynthetique () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ getVoixSynthetique () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ setVoixSynthetique () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

# Diagramme de paquetage

*Package in package 'Conception'*

## *Diagramme de paquetage diagram*

*Package diagram in package 'Diagramme de paquetage'*

Figure 9:  Diagramme de paquetage

## *Package A*

*Package in package 'Diagramme de paquetage'*

Notes that describe Package A.

| CONNECTORS |
| --- |
| **Dependency**      Source -> Destination |
| From:        Package A : Package, Public |
| To:          Package B : Package, Public |
| |
| **Nesting**      Source -> Destination |
| From:        PackageSubA1 : Package, Public |
| To:          Package A : Package, Public |

## *Package B*

*Package in package 'Diagramme de paquetage'*

Notes that describe Package B.

| CONNECTORS |
| --- |

| CONNECTORS |
| --- |
| ↗ **Dependency**    Source -> Destination<br>From:        Package A : Package, Public<br>To:            Package B : Package, Public |

## *PackageA diagram*

*Package diagram in package 'Diagramme de paquetage'*

PackageA
Version 1.0
francois created on 2018-09-26.  Last modified 2018-09-26
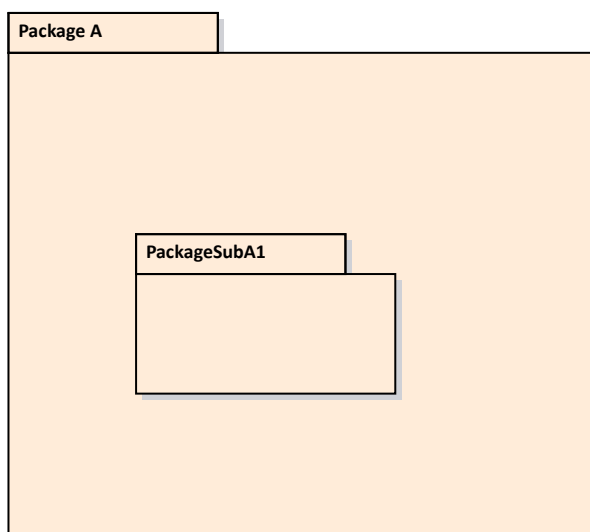


Figure 10: PackageA

## *PackageSubA1*

*Package in package 'Diagramme de paquetage'*

PackageSubA1
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-26.  Last modified 2018-09-26

| CONNECTORS |
| --- |
| ↗ **Nesting**     Source -> Destination<br>From:        PackageSubA1 : Package, Public<br>To:            Package A : Package, Public |

## *Package A*

*Package in package 'Diagramme de paquetage'*

Notes that describe Package A.

<div align="right">

Package A
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2018-09-04

</div>

**CONNECTORS**

↗ **Dependency**      Source -> Destination
From:       Package A : Package, Public
To:         Package B : Package, Public

---

↗ **Nesting**      Source -> Destination
From:       PackageSubA1 : Package, Public
To:         Package A : Package, Public

## PackageSubA1

*Package in package 'Diagramme de paquetage'*

<div align="right">

PackageSubA1
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-26.  Last modified 2018-09-26

</div>

**LINKS TO OTHER PACKAGES**

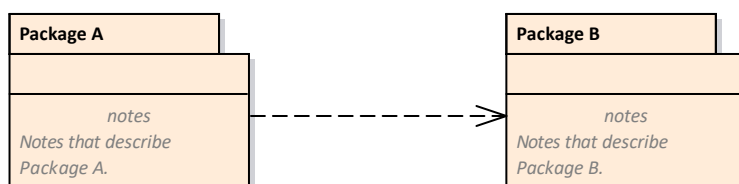| ⬅ Nesting from 'PackageSubA1' Package  to 'Package A' Package | Direction:       Source -> Destination |
|---|---|

## Package A

*Package in package 'Diagramme de paquetage'*

Notes that describe Package A.

<div align="right">

Package A
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2018-09-04

</div>

| LINKS TO OTHER PACKAGES | | |
|---|---|---|
| ⬅ Dependency from 'Package A' Package  to 'Package B' Package | Direction: | Source -> Destination |
| ⬅ Nesting from 'PackageSubA1' Package  to 'Package A' Package | Direction: | Source -> Destination |

## Package A

*Package in package 'Diagramme de paquetage'*

## Package B

*Package in package 'Diagramme de paquetage'*

Notes that describe Package B.

<div align="right">

Package B
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2018-09-04

</div>

| LINKS TO OTHER PACKAGES | |
| --- | --- |
| ⬅ Dependency from 'Package A' Package  to 'Package B' Package | Direction:         Source -> Destination |

## Actor1

*Actor in package 'Conception'*

<div align="right">

Actor1
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

</div>

## Utilisateur

*Actor in package 'Conception'*

<div align="right">

Utilisateur
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-11.  Last modified 2019-02-11

</div>

## Utilisateur

*Actor in package 'Conception'*

<div align="right">

Utilisateur
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-11.  Last modified 2019-02-11

</div>

## Utilisateur

*Actor in package 'Conception'*

<div align="right">

Utilisateur
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-11.  Last modified 2019-02-11

</div>

## Utilisateur

*Actor in package 'Conception'*

<div align="right">

Utilisateur
Version 1.0  Phase 1.0  Proposed

</div>

## OUTGOING BEHAVIORAL RELATIONSHIPS

Name:  choixVoixSynthetique
⬅ Sequence from  Utilisateur to  VoixSynthetique

Name:  activerTraductionAutomatique
⬅ Sequence from  Utilisateur to  OptionTraduction

Name:  choixTraduction()
⬅ Sequence from  Utilisateur to  Traduction

Name:  choixMediumSortie
⬅ Sequence from  Utilisateur to  MediumSortie

Name:  choixDelaiSortie
⬅ Sequence from  Utilisateur to  DelaiSortie

## INCOMING BEHAVIORAL RELATIONSHIPS

Name:  afficherMenuTraduction
➡ Sequence from  OptionTraduction to  Utilisateur

Name:  afficherMenuTraduction
➡ Sequence from  OptionTraduction to  Utilisateur

Name:  afficherMenuTraduction() - interface qui va permettre à l'utilisateur de chosir les options qu'il va vouloir appliquer à la traduction
➡ Sequence from  OptionTraduction to  Utilisateur

Name:  afficherMenuTraduction()
➡ Sequence from  OptionTraduction to  Utilisateur

Name:  renvoi le flux audio traduit
➡ Sequence from  Traduction to  Utilisateur

# Class1

*Class in package 'Conception'*

# DelaiSortie

*Class in package 'Conception'*

DelaiSortie
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-12

---

**INCOMING STRUCTURAL RELATIONSHIPS**

➡ Aggregation  from  OptionTraduction to  DelaiSortie

[ Direction is 'Source -> Destination'. ]

---

**ATTRIBUTES**

◆ delai : float  Private

[ Is static True. Containment is Not Specified. ]

---

**OPERATIONS**

◆ choixDeLaSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ getDelaiSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ setDelaiSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

---

# FluxAudio

*Class in package 'Conception'*

dfgdfg

FluxAudio
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-13

---

**INCOMING STRUCTURAL RELATIONSHIPS**

➡ Generalization  from  FluxEntree to  FluxAudio

[ Direction is 'Source -> Destination'. ]

➡ Generalization  from  FluxDeSortie to  FluxAudio

[ Direction is 'Source -> Destination'. ]

---

**ATTRIBUTES**

◆ id : int  Private

[ Is static True. Containment is Not Specified. ]

---

## ATTRIBUTES

◆ source : int  Private

[ Is static True. Containment is Not Specified. ]

## ASSOCIATIONS

✏ Association (direction: Bi-Directional)

Source: Public (Class) FluxAudio                          Target: Public (Class) Langue
   Cardinality:  [0..*]                                        Cardinality:  [1..*]

✏ Association (direction: Source -> Destination)

Source: Public (Class) FluxAudio                          Target: Public (Class) Traduction
   Cardinality:  [0..*]                                        Cardinality:  [1..*]

# FluxDeSortie

*Class in package 'Conception'*

FluxDeSortie
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-12
Extends FluxAudio

## OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Generalization from  FluxDeSortie to  FluxAudio

[ Direction is 'Source -> Destination'. ]

## ATTRIBUTES

◆ id : int  Private

[ Is static True. Containment is Not Specified. ]

◆ langueCIble : string  Private

[ Is static True. Containment is Not Specified. ]

## OPERATIONS

◆ OptionAssocieFLuxSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

# FluxEntree

*Class in package 'Conception'*

FluxEntree

Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-12
Extends FluxAudio

---

**OUTGOING STRUCTURAL RELATIONSHIPS**

⬅ Generalization from  FluxEntree to  FluxAudio

[ Direction is 'Source -> Destination'. ]

---

**ATTRIBUTES**

🔹 id : int  Private

[ Is static True. Containment is Not Specified. ]

🔹 langueSource : string  Private

[ Is static True. Containment is Not Specified. ]

---

**OPERATIONS**

🔹 detectionLangue () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔹 getLangueSource () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔹 setLangueSource () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

---

# Langue

*Class in package 'Conception'*

Langue
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-12

---

**INCOMING STRUCTURAL RELATIONSHIPS**

➡ Generalization  from  LangueSource to  Langue

[ Direction is 'Source -> Destination'. ]

➡ Generalization  from  LangueCible to  Langue

[ Direction is 'Source -> Destination'. ]

---

**ATTRIBUTES**

🔹 langue : string  Private

[ Is static True. Containment is Not Specified. ]

---

## ASSOCIATIONS

✎ Association (direction: Bi-Directional)

Source: Public (Class) FluxAudio                         Target: Public (Class) Langue
   Cardinality: [0..*]                                         Cardinality: [1..*]

✎ Association (direction: Source -> Destination)

Source: Public (Class) Traduction                         Target: Public (Class) Langue
   Cardinality: [0..*]                                         Cardinality: [1..*]

## OPERATIONS

🔶 getLangue () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔶 setLangue () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

# LangueCible

*Class in package 'Conception'*

LangueCible
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-12
Extends Langue

## OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Generalization from  LangueCible to  Langue

[ Direction is 'Source -> Destination'. ]

## OPERATIONS

🔶 getLangueCible () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔶 setLangueCible () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

# LangueSource

*Class in package 'Conception'*

LangueSource
Version 1.0  Phase 1.0  Proposed

| OUTGOING STRUCTURAL RELATIONSHIPS |
|---|

⬅ Generalization from  LangueSource to  Langue

[ Direction is 'Source -> Destination'. ]

| OPERATIONS |
|---|

◆ getLangueSource () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ setLangueSource () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

# MediumSortie

*Class in package 'Conception'*

MediumSortie
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-12

| INCOMING STRUCTURAL RELATIONSHIPS |
|---|

➡ Aggregation  from  OptionTraduction to  MediumSortie

[ Direction is 'Source -> Destination'. ]

| ATTRIBUTES |
|---|

◆ typeMediumSortie : int  Private

[ Is static True. Containment is Not Specified. ]

| OPERATIONS |
|---|

◆ choixMediumSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ getMediumSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ setMediumSortie () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

# OptionTraduction

*Class in package 'Conception'*

OptionTraduction
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-12

**OUTGOING STRUCTURAL RELATIONSHIPS**

⬅ Aggregation from  OptionTraduction to  DelaiSortie

[ Direction is 'Source -> Destination'. ]

⬅ Aggregation from  OptionTraduction to  MediumSortie

[ Direction is 'Source -> Destination'. ]

⬅ Aggregation from  OptionTraduction to  VoixSynthetique

[ Direction is 'Source -> Destination'. ]

**INCOMING STRUCTURAL RELATIONSHIPS**

➡ Aggregation  from  Traduction to  OptionTraduction

[ Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

🔷 activer : bool  Private

[ Is static True. Containment is Not Specified. ]

**OPERATIONS**

🔷 activerTraductionAutomatique () : void Public
[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔷 afficherMenuTraduction () : void Public
[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔷 choixOptionTraduction () : void Public
[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

# Traduction

*Class in package 'Conception'*

Traduction
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-12

**OUTGOING STRUCTURAL RELATIONSHIPS**

## OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Aggregation from Traduction to OptionTraduction

[ Direction is 'Source -> Destination'. ]

## INCOMING STRUCTURAL RELATIONSHIPS

➡ Generalization from TraductionAutomatique to Traduction

[ Direction is 'Source -> Destination'. ]

➡ Generalization from TraductionManuel to Traduction

[ Direction is 'Source -> Destination'. ]

## ATTRIBUTES

◆ activer : bool Private

[ Is static True. Containment is Not Specified. ]

## ASSOCIATIONS

🖉 Association (direction: Source -> Destination)

Source: Public (Class) Traduction                    Target: Public (Class) Langue
   Cardinality: [0..*]                                      Cardinality: [1..*]

🖉 Association (direction: Source -> Destination)

Source: Public (Class) FluxAudio                     Target: Public (Class) Traduction
   Cardinality: [0..*]                                      Cardinality: [1..*]

## OPERATIONS

◆ activer () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ choixTraduction () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ chosirLangueTraduction () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ traduction () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

## TraductionAutomatique

*Class in package 'Conception'*

TraductionAutomatique
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-12
Extends Traduction

**OUTGOING STRUCTURAL RELATIONSHIPS**

⬅ Generalization from  TraductionAutomatique to  Traduction

[ Direction is 'Source -> Destination'. ]

**OPERATIONS**

🔷 optionTraductionAutomatique () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔷 traductionAutomatique () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

# TraductionManuel

*Class in package 'Conception'*

TraductionManuel
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-12
Extends Traduction

**OUTGOING STRUCTURAL RELATIONSHIPS**

⬅ Generalization from  TraductionManuel to  Traduction

[ Direction is 'Source -> Destination'. ]

**OPERATIONS**

🔷 optionTraductionManuel () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

🔷 traductionManuel () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

# VoixSynthetique

*Class in package 'Conception'*

VoixSynthetique
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-12

**INCOMING STRUCTURAL RELATIONSHIPS**

**INCOMING STRUCTURAL RELATIONSHIPS**

➡ Aggregation  from  OptionTraduction to  VoixSynthetique

[ Direction is 'Source -> Destination'. ]

**ATTRIBUTES**

◆ voix : string  Private

[ Is static True. Containment is Not Specified. ]

**OPERATIONS**

◆ choixVoixSynthetique () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ getVoixSynthetique () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

◆ setVoixSynthetique () : void Public

[ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ]

# VoixSynthetique

*Class in package 'Conception'*

VoixSynthetique
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-13

**STRUCTURAL PART OF VoixSynthetique**

⚙ Port1 : Port

# Port1

*Port owned by 'VoixSynthetique', in package 'Conception'*

Port1
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-13

# Interface1

*Interface in package 'Conception'*

Interface1
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-13

## Object

*Object in package 'Conception'*

Object
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-13

## InteractionFragment

*InteractionFragment in package 'Conception'*

InteractionFragment
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-11.  Last modified 2019-02-11

## Gate

*Gate in package 'Conception'*

Gate
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-11.  Last modified 2019-02-11

## Gate

*Gate in package 'Conception'*

Gate
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-11.  Last modified 2019-02-11

## ActivityPartition

*ActivityPartition in package 'Conception'*

ActivityPartition
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-11.  Last modified 2019-02-11

## InteractionFragment

*InteractionFragment in package 'Conception'*

InteractionFragment
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-11.  Last modified 2019-02-11

## {}

*InteractionState in package 'Conception'*

{}
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-11.  Last modified 2019-02-11

# DelaiSortie

*Sequence in package 'Conception'*

DelaiSortie
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

| OUTGOING BEHAVIORAL RELATIONSHIPS |
|---|

Name:  renvoi la valeur de delaiSortie qui sera utiliser dans la traduction
Sequence from  DelaiSortie to  OptionTraduction

| INCOMING BEHAVIORAL RELATIONSHIPS |
|---|

Name:  choixDelaiSortie
Sequence from  Utilisateur to  DelaiSortie

# Langue

*Sequence in package 'Conception'*

Langue
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-11.  Last modified 2019-02-11

# Langue

*Sequence in package 'Conception'*

Langue
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

| OUTGOING BEHAVIORAL RELATIONSHIPS |
|---|

Name:  setLangueCible
Sequence from  Langue to  LangueCible

| INCOMING BEHAVIORAL RELATIONSHIPS |
|---|

Name:  setLangue
Sequence from  VoixSynthetique to  Langue

## LangueCible

*Sequence in package 'Conception'*

LangueCible
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

| OUTGOING BEHAVIORAL RELATIONSHIPS |
| --- |
| Name:  set la langue cible désiré<br>⬅ Sequence from  LangueCible to  VoixSynthetique |

| INCOMING BEHAVIORAL RELATIONSHIPS |
| --- |
| Name:  setLangueCible<br>➡ Sequence from  Langue to  LangueCible |

## MediumSortie

*Sequence in package 'Conception'*

MediumSortie
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

| OUTGOING BEHAVIORAL RELATIONSHIPS |
| --- |
| Name:  renvoi le type de medium de sortie qui sera utiliser dans la traduction<br>⬅ Sequence from  MediumSortie to  OptionTraduction |

| INCOMING BEHAVIORAL RELATIONSHIPS |
| --- |
| Name:  choixMediumSortie<br>➡ Sequence from  Utilisateur to  MediumSortie |

## Message

*Sequence in package 'Conception'*

Message
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-11.  Last modified 2019-02-11

## Object1

*Sequence in package 'Conception'*

Object1
Version 1.0  Phase 1.0  Proposed

paclab created on 2019-02-11.  Last modified 2019-02-11

# Object2

*Sequence «control» in package 'Conception'*

Object2
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-11.  Last modified 2019-02-11

# Object3

*Sequence in package 'Conception'*

Object3
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

# OptionTraduction

*Sequence in package 'Conception'*

OptionTraduction
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

| OUTGOING BEHAVIORAL RELATIONSHIPS |
|---|
| Name:  afficherMenuTraduction<br>Sequence from  OptionTraduction to  Utilisateur |
| Name:  afficherMenuTraduction<br>Sequence from  OptionTraduction to  Utilisateur |
| Name:  activer<br>Sequence from  OptionTraduction to  TraductionAutomatique |
| Name:  afficherMenuTraduction() - interface qui va permettre à l'utilisateur de chosir les options qu'il va vouloir appliquer à la traduction<br>Sequence from  OptionTraduction to  Utilisateur |
| Name:  afficherMenuTraduction()<br>Sequence from  OptionTraduction to  Utilisateur |

| INCOMING BEHAVIORAL RELATIONSHIPS |
|---|
| Name:  renvoi la langue cible qui sera utiliser dans la traduction<br>Sequence from  VoixSynthetique to  OptionTraduction |

| INCOMING BEHAVIORAL RELATIONSHIPS |
|---|

Name:  activerTraductionAutomatique
➥ Sequence from  Utilisateur to  OptionTraduction

Name:  renvoi la valeur de delaiSortie qui sera utiliser dans la traduction
➥ Sequence from  DelaiSortie to  OptionTraduction

Name:  choixOptionTraduction
➥ Sequence from  TraductionAutomatique to  OptionTraduction

Name:  renvoi le type de medium de sortie qui sera utiliser dans la traduction
➥ Sequence from  MediumSortie to  OptionTraduction

# PrimitiveType1

*PrimitiveType in package 'Conception'*

PrimitiveType1
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-13

# Property1

*Property in package 'Conception'*

Property1
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-13.  Last modified 2019-02-13

# selectionnerMessage()

*Sequence in package 'Conception'*

selectionnerMessage()
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-11.  Last modified 2019-02-11

# Traduction

*Sequence in package 'Conception'*

Traduction
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

| OUTGOING BEHAVIORAL RELATIONSHIPS |
|---|

Name:  renvoi le flux audio traduit
◄ Sequence from  Traduction to  Utilisateur

**OUTGOING BEHAVIORAL RELATIONSHIPS**

Name:  optionTraductionAutomatique()
➜ Sequence from  Traduction to  TraductionAutomatique

**INCOMING BEHAVIORAL RELATIONSHIPS**

Name:  traductionAutomatique
➜ Sequence from  TraductionAutomatique to  Traduction

Name:  choixTraduction()
➜ Sequence from  Utilisateur to  Traduction

# TraductionAutomatique

*Sequence in package 'Conception'*

TraductionAutomatique
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-12.  Last modified 2019-02-12

**OUTGOING BEHAVIORAL RELATIONSHIPS**

Name:  traductionAutomatique
➜ Sequence from  TraductionAutomatique to  Traduction

Name:  choixOptionTraduction
➜ Sequence from  TraductionAutomatique to  OptionTraduction

**INCOMING BEHAVIORAL RELATIONSHIPS**

Name:  activer
➜ Sequence from  OptionTraduction to  TraductionAutomatique

Name:  optionTraductionAutomatique()
➜ Sequence from  Traduction to  TraductionAutomatique

# Traitement

*Sequence in package 'Conception'*

Traitement
Version 1.0  Phase 1.0  Proposed
paclab created on 2019-02-11.  Last modified 2019-02-11

# VoixSynthetique

*Sequence in package 'Conception'*

> VoixSynthetique
> Version 1.0  Phase 1.0  Proposed
> paclab created on 2019-02-12.  Last modified 2019-02-12

### OUTGOING BEHAVIORAL RELATIONSHIPS

Name:  *renvoi la langue cible qui sera utiliser dans la traduction*
Sequence from  VoixSynthetique to  OptionTraduction

Name:  *setLangue*
Sequence from  VoixSynthetique to  Langue

### INCOMING BEHAVIORAL RELATIONSHIPS

Name:  choixVoixSynthetique
Sequence from  Utilisateur to  VoixSynthetique

Name:  *set la langue cible désiré*
Sequence from  LangueCible to  VoixSynthetique

# VoixSynthétique

*Sequence in package 'Conception'*

> VoixSynthétique
> Version 1.0  Phase 1.0  Proposed
> paclab created on 2019-02-11.  Last modified 2019-02-11

# Déploiement

*Package in package 'Model'*

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Déploiement
Version 1.0  Phase 1.0  Proposed
francois created on 2018-09-04.  Last modified 2018-09-04

</div>

# Déploiement

*Package in package 'Model'*