ISITEP
D5.5.4 – SEMANTIC/SYNTACTIC TRANSLATOR SOFTWARE

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Publishable extended abstract

In this deliverable, the feature list and the details about the released software for the Syntactic and Semantic Translator Server and Client Applications are detailed, as parts of the ISITEP Enhanced Terminal.

Abbreviations

For the purposes of the present document, the following abbreviations apply:

Acronym	Definition
API	Application programming interface
DB	Database
EME	Enhanced Message Exchange
HMI	Human Machine Interface
IET	ISITEP Enhanced Terminal
PIN	Personal Identification Number
IF	Interface
SDS	Short Data Service
SST	Semantic and Syntactic Translator
TETRA	Terrestrial Trunked Radio
URL	Uniform Resource Locator

CONTENTS

1. Introduction

In this deliverable, the feature list and the details about the released software for the Syntactic and Semantic Translator Server and Client Applications are detailed, as parts of the ISITEP Enhanced Terminal. The features are presented per software component, i.e., the client part, the server part, as the User Interface part of the SST service –the Enhanced Message Exchange (EME) - application.

2. Features list

2.1. SST client

The implemented features of the LDA are compliant with the requirements defined in D5.5.1 and D5.5.3.

- The SST App runs as a service -in the background- on the mobile terminal
- The SST runs as a service and offers an interface for interaction with the SST server, as well as the EME app
- The SST service (app) has no direct UI, instead it is directly linked with the EME application, provided with the SST app.
- The SST App provides the “SST” icon on the main screen of the ISITEP Application, in order to allow the user to interact with the Application itself.
- The SST service is able to receive messages using a Broadcast Receiver about a translation requests, received from the EME application.
- The SST service may either directly translate a command if it is available in its local database, or send the translation request to the SST server

2.2. SST server

The implemented features of the SST server side are compliant with the requirements defined in D5.5.1 and D5.5.3.

- The SST server is able to receive information from terminals in SDS format
- The SST server is able to respond back to the SST client service with the translated command, retrieved from its database
- The SST service is able to identify a possible suggestion for translation –based on its internal suggestion algorithm- if the requested command is not found; then, it is able to send the translated suggestion to the SST client
- The SST service on the server side is capable of making a request to the Google Translate API in case no command is found in the database and no suggestion is available as well
- The SST Server Application is able to provide to the Administrator the means to submit update the commands’ DataBase

2.3. 3rd party software components directly associated with SST (Enhanced Message Exchange - EME)

The implemented features of the EME are compliant with the requirements defined in D6.4.2. They are listed in the following:

- The EME App The EME App provides a UI interface for the SST service, after launching it from its icon
- The EME App broadcasts Intents and receive Broadcasts from SST app requesting translations.
- The EME App is able to send and receive Commands from other EME clients.
- The EME App is able to receive notifications and show them to the user
- The EME App is able to suggest –in case a mistyped command is found-, to automatically correct it –using a dictionary- and send it afterwards

3. Software availability

The software releases have been uploaded in the EMDESK portal of the ISITEP project. The packages can be downloaded from the following link TBD

4. References

ISITEP D5.5.1 – Semantic/Syntactic Translator Database Population

ISITEP D5.5.2 – Semantic/Syntactic Translator Test Report

ISITEP D5.5.3 - Semantic/Syntactic Translator Engine Design Description