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PROJECT

LOGICIEL : **DYMOLA LAUNCHER**
SOFTWARE

VERSION : **19.0.0**
VERSION

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1 INTRODUCTION

1.1 DOCUMENT PURPOSE

This document is the user guide of DYMOLA LAUNCHER application.

The MUSE application allows to launch simulations on one or many flight case and to display the results in different forms (reports, table and graphs)

1.2 TERMINOLOGY

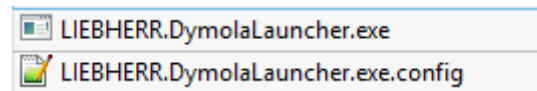
Abbreviation	Description
LTS	Liebherr Aerospace Toulouse
SI	International System of units
<DYMOLA_LAUNCHER ROOT>	Application installation root path (by default : C:\LTS\OUTILS\DYMOLA_LAUNCHER)

2 TOOL SETTING

2.1 GENERAL

Applications general settings are gathered in a text file which format is xml.

This file, named Dymola launcher.exe.config is located in the directory:
<DYMOLA_LAUNCHER_ROOT>\bin.



Before launching the application, general settings can be configured using a text editor.

2.2 SETTINGS

2.2.1 WORKSPACE ROOT

```
<setting name="Workspace" serializeAs="String">  
  <value>M:\DATA\USER\BRUNO\Workspaces\Test_officiel</value>  
</setting>
```

The setting « WORKSPACE » is used to define the workspace root path where projects are stored.

This setting value can be modified to change project workspace root path.

2.2.2 BUSINESS PROFILES

```
  <setting name="BusinessProfiles" serializeAs="Xml">  
    <value>  
      <ArrayOfString xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
        xmlns:xsd="http://www.w3.org/2001/XMLSchema">  
  
        <string>Statique,StaticSystems,https://ltssvn/OS/generic/DYMOLA_LAUNCHER/WORKSPACE/StaticSystems</string>  
  
        <string>Dynamique,DynamicSystems,https://ltssvn/OS/generic/DYMOLA_LAUNCHER/WORKSPACE/DynamicSystems</string>  
  
        <string>Valves,ValveSystems,https://ltssvn/OS/generic/DYMOLA_LAUNCHER/WORKSPACE/ValveSystems</string>  
      </ArrayOfString>  
    </value>  
  </setting>
```

The setting Business profiles is used to define the business profiles used in Dymola Launcher. Theses Business profiles contains a Svn path and an Alias for the business name.

2.2.3 LOGS

The log folder is stored in
<DYMOLA_LAUNCHER
ROOT>\Log\log.txt.

2.2.4 LANGUAGE

The setting « LANGUAGE » is used to configure the DYMOLA LAUNCHER application language.

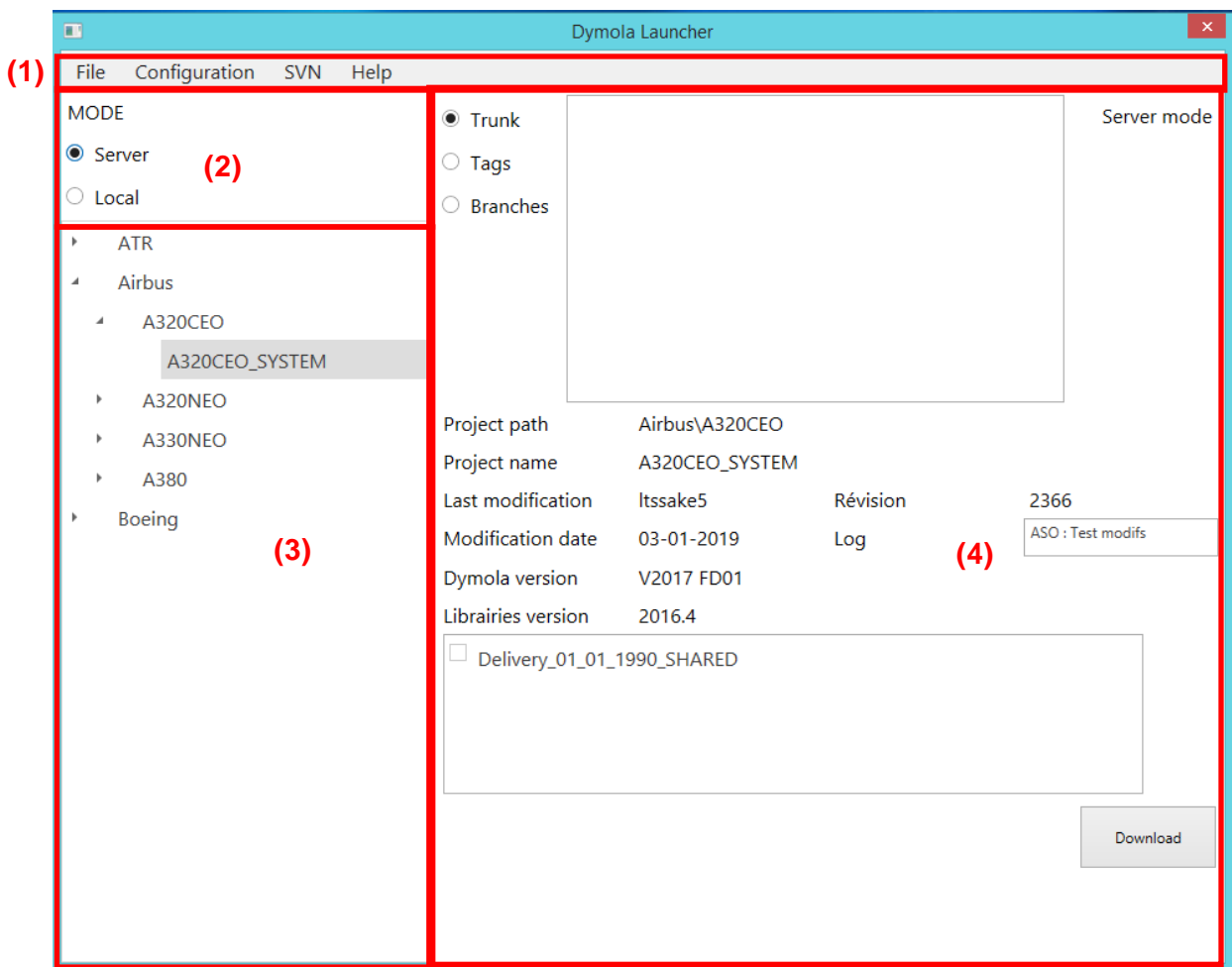
```
<setting name="LANGUAGE" serializeAs="String">  
  <value>English</value>  
</setting>
```

Two values are available:

- "English"
- "French".

3 TOOL OVERVIEW

3.1 MAIN WINDOW

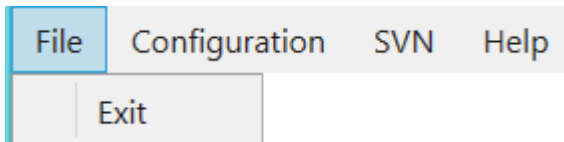


The main window is composed of four main parts:

- (1): the main menu
- (2): the project Mode
- (3): the Tree (Server or Local)
- (4): the result frame

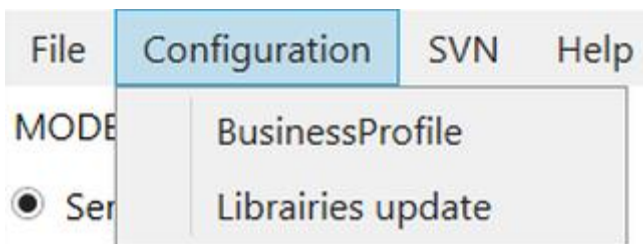
3.2 MAIN MENU

3.2.1 FILE MENU



The File menu contain a menu item Exit. When cliqued, the application is existed, the current state of the application is saved.

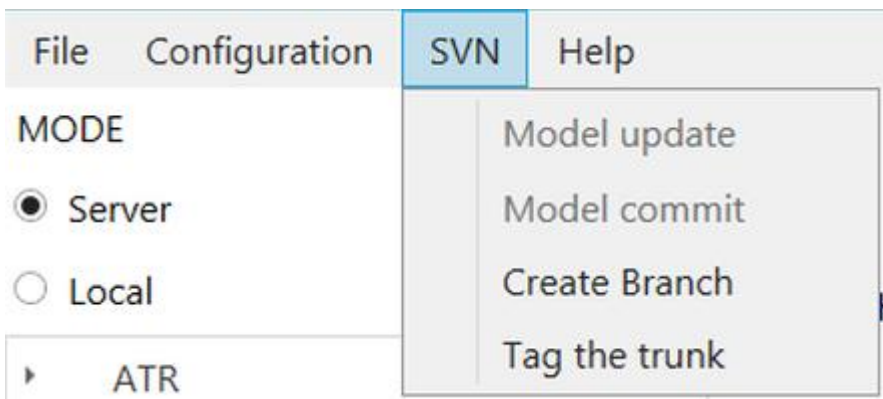
3.2.2 CONFIGURATION



This configuration menu have two menu items :

- Business profile : open a window with a the list of business profile.
- Librairies update : launch the update process. When clicked a progress bar cycles. An alert window pops up at the end of the operation

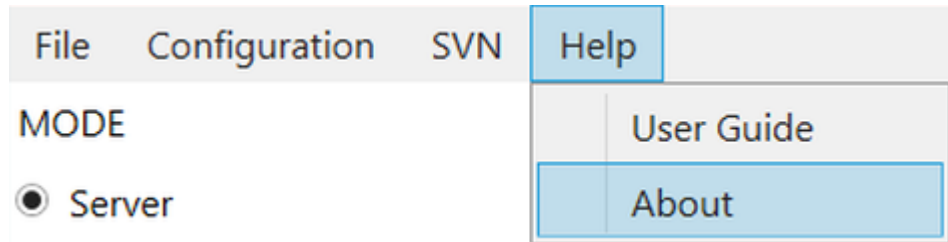
3.2.3 SVN MENU



This menu lists the possible Svn commands. When selected, they open a Tortoise svn windows. The possible actions are :

- Update
- Commit
- Create branch
- Tag the trunk

3.2.4 HELP



This menu contains the usual User guide and about menu item.

- User guide open this pdf
- About shows a windows with the Liebherr copyright informations.

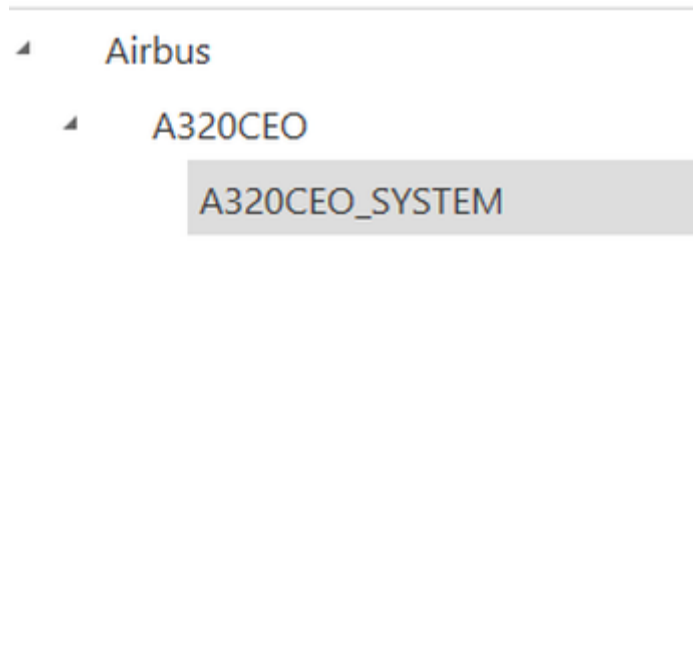
3.3 MODE / TREE VIEW

The mode is associated to the Tree view. When changed, the application swaps between the informations stored in the Svn server path, or the local workspace. Those path are stored in the business profile and in the workspace parameter.

MODE

☐ Server

☒ Local



3.4 SERVER MODE

In the Server part the result frame is divided in three parts :

- (1): Trunk, Tags, Branches radio buttons
- (2): List of selected svn directory (Trunk, Tags, Branches)
- (3): Information panel
- (4): References (visualization only)
- (5): Execution buttons

(1) <input checked="" type="radio"/> Trunk <input type="radio"/> Tags <input type="radio"/> Branches	(2)	Server mode																								
(3) <table><tr><td>Project path</td><td colspan="3">Airbus\A320CEO</td></tr><tr><td>Project name</td><td colspan="3">A320CEO_SYSTEM</td></tr><tr><td>Last modification</td><td>Itssake5</td><td>Révision</td><td>2366</td></tr><tr><td>Modification date</td><td>03-01-2019</td><td>Log</td><td>ASO : Test modifs</td></tr><tr><td>Dymola version</td><td colspan="3">V2017 FD01</td></tr><tr><td>Librairies version</td><td colspan="3">2016.4</td></tr></table>			Project path	Airbus\A320CEO			Project name	A320CEO_SYSTEM			Last modification	Itssake5	Révision	2366	Modification date	03-01-2019	Log	ASO : Test modifs	Dymola version	V2017 FD01			Librairies version	2016.4		
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Modification date	03-01-2019	Log	ASO : Test modifs																							
Dymola version	V2017 FD01																									
Librairies version	2016.4																									
(4) <div><input type="checkbox"/> Delivery_01_01_1990_SHARED</div>																										
(5) Download																										

3.4.1 TRUNK, TAGS, BRANCHES RADIO BUTTONS

A radio button to choose between the svn :

- Trunk

- Tags
- Branch

3.4.2 LIST OF SELECTED SVN DIRECTORY (TRUNK, TAGS, BRANCHES)

Show the list of project contained in the selected Svn main folder.

3.4.3 INFORMATION PANEL

Lists the information about the Svn project

3.4.4 REFERENCES (VISUALIZATION ONLY)

Show the references attached to the currently selected project. The references cannot be selected or checked in this mode

3.4.5 EXECUTION BUTTON: DOWNLOAD

When clicked, this button start the download operation, of the currently selected project with it's references.

- If the downloaded project exist, a confirmation is asked.
- If the downloaded references associated to the project exists, a confirmation is asked.

3.5 LOCAL MODE

The local mode shows a view of the folders located in the workspace location. This location can be defined in the settings of the application.

The application swaps automatically to this mode after a folder have been selected.

In the Server part the result frame is divided in three parts :

- (1): Trunk, Tags, Branches radio buttons
- (2): List of selected svn directory (Trunk, Tags, Branches)
- (3): Information panel, with select for library and
- (4): References
- (5): SVN Buttons
- (6): *Launch Dymola*

<p>(1)</p> <p><input checked="" type="radio"/> Trunk</p> <p><input type="radio"/> Tags</p> <p><input type="radio"/> Branches</p>	<p>(2)</p>	<p>Local mode</p>
<p>(3)</p> <p>Project path: Airbus\A320CEO</p> <p>Project name: A320CEO_SYSTEM</p> <p>Last modification: Itssake5</p> <p>Modification date: 03-01-2019</p> <p>Dymola version: <input type="text"/></p> <p>Librairies version: <input checked="" type="radio"/> Network <input type="radio"/> Local</p>		<p>(4)</p> <p>Model Update</p> <p>Model Commit</p>
<p>(5)</p> <p><input type="checkbox"/> Delivery_01_01_1990_SHARED</p> <p>Add</p> <p>Del</p>		
<p>(6)</p> <p>Launch Dymola</p>		

3.5.1 TRUNK, TAGS, BRANCHES RADIO BUTTONS

A radio button to choose between the svn :

- Trunk
- Tags
- Branch

3.5.2 LIST OF SELECTED SVN DIRECTORY (TRUNK, TAGS, BRANCHES)

Show the list of project contained in the selected svn main folder.

3.5.3 INFORMATION PANEL

Lists the information about the local workspace project.

The screenshot shows the 'Information Panel' with two main sections. The first section is 'Dymola version' with a dropdown menu. The second section is 'Libraries version' with two radio buttons: 'Network' (selected) and 'Local'. To the right of the radio buttons is a dropdown menu showing '2016.4'.

Beside displaying informations about the model, this panel allow the user to choose with two combo box :

- The Library version : stored on the Network
- The Dymola version : search on the local computer the availables version of Dymola.

3.5.4 REFERENCES

Show the references attached to the currently selected project. The references cannot be selected or checked in this mode.

The screenshot shows the 'REFERENCES' panel. On the left, there are two buttons: 'Add' and 'Del'. To the right, there is a list of references. The first reference is 'Delivery_01_01_1990_SHARED' with an unchecked checkbox next to it.

There's two buttons associated to the references :

- Add : A windows popup to associate a reference to the current project
- Remove : Remove an associated reference.

3.5.5 EXECUTION BUTTON : LAUNCH DYMOLA

This button launch Dymola.

- Generate a script with the selected Dymola informations.
- Launch an instance of Dymola in a new process, Dymola Launcher remain available during the execution