LABNAF CUSTOMIZATION ENVIRONMENT 2.0 INSTALLATION

Sparx EA is installed on the server

LABNAF CUSTOMIZATION - SOFTWARE FEATURES OVERVIEW

CUSTOMIZATION WORKBENCH

The **Labnaf Customization Workbench** provides the following features:

- Dynamic customization of the Labnaf language metamodel. This enables dynamic modeling connector validation. It prevents users from creating connectors that are no part of the default language metamodel.
- Staged customization (Dev, Test, Prod) of the language, toolboxes and diagram types using Sparx System's MDG Technologies.

LANGUAGE TRANSFORMER

Using the **Labnaf Language Transformer** you can:

- Automatically transform, in a repository, of existing modeling language elements and connectors in terms of types, stereotypes and tagged values.
- Translate modeling languages e.g. ArchiMate, BPMN or UML, into any other language e.g. Labnaf (and vice versa).
- Adapt existing model repository content to continuous language changes (tagged values, metamodel, new/changed stereotypes, diagram types…). As you will adapt the language to new or changing requirements, you will need to adapt your existing repository content.

WARNING

NEVER use the language transformer on your production repository before performing all necessary tests.

ALWAYS test your language transformer commands using a repository backup.

ALWAYS carefully check the resulting transformations and possible side effects. For example items could be deleted because you misspelled a type.

ALWAYS remember that type and stereotype names are case sensitive.

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LABNAF CUSTOMIZATION - PACKAGE CONTENT

DOC FOLDER

- Labnaf Documentation and pointers to on-line documentation.

INSTALLER FOLDER

- **LabnafCustomizationWorkbenchSetUp.msi** which is used for installing the Labnaf Customization Workbench.
- **LabnafLanguageTransformerSetUp.msi** which is used for installing the Labnaf Language Transformer.

1_DEV, 2_TEST AND 3_PROD FOLDERS

These are the staging environments (Dev/Test/Prod) for customizing Labnaf.

1_DEV FOLDER

Labnaf_Custom_Dev.eap	A Labnaf MDG model repository for customizing your Labnaf modeling language
LABN_Custom_Profile.xml	Default element & connector types
LABN_TB….xml	Default toolboxes
LABN_Diagrams_...xml	Diagram types
Labnaf_Custom.MTS	The binding of all profile files needed
Labnaf_Custom_Template.MTS	A template used for generating **Labnaf_Custom.MTS** and adapt it to the current location of the "Customization" folder on your file system
Pictures	A folder for storing custom language images
WSL	Default workspace layout provided by the Labnaf addin

You can …

- Customize the Labnaf MDG and do anything you usually do using MDG development. That includes adding, removing and customizing element types, connector types, tagged values, toolboxes, diagrams, searches etc… Default shape scripts and icons are automatically injected by the Labnaf addin at runtime. You can replace these by your own if you want.

- Open the MDG development repository by pressing a button in the **Customization Workbench**.

- Generate your **Labnaf_Custom_MDG.xml** (your resulting customized Labnaf modeling language) by pressing a button in the **Customization Workbench**. The **Labnaf_Custom_MDG.xml** file is generated in the Test folder as it is then used for testing your MDG using a test repository.

- Enjoy the **dynamic Labnaf metamodel** that is provided to you in the production repository (**Labnaf_Prod_Repository.eap** or **StartupRepository.eap**

  This metamodel
  - **is modeled using the Labnaf modeling language itself**… that you might have customized
  - is therefore **very easy to read** and to adapt to your needs (just add or remove connectors)
  - is used for both **model validation, quick links** and **documentation**

  Just press a button in the **Customization workbench** and your connector validation rules and quick links get immediately updated

2_TEST (FOLDER)

Labnaf_Test_Repository.eap	An empty repository that you can use for testing your customized Labnaf language. You can open that repository by pressing a button in the **Customization Workbench**.
Labnaf_Custom_MDG.xml	The default Labnaf MDG

You can …

- Open the testing repository by pressing a button in the **Customization Workbench**.

- Promote the MDG to production by pressing a button in the **Customization Workbench**.

- Regenerate the MDG by pressing a button in the **Customization Workbench**.

- Promote the MDG from Test to Production by pressing another button in the **Customization Workbench**.

3_PROD (FOLDER)

Labnaf_Prod_Repository.eap	The Production repository.
Labnaf_Custom_MDG.xml	The same default Labnaf MDG as in the testing environment.
Labnaf_Custom_QuickLinks.xml	The default connection constraints that can be customized and regenerated using the Customization Workbench. In other words, this is your dynamic metamodel which is defined using the Labnaf modeling language itself in the production repository.

You can…

- Promote the testing MDG to PROD by pressing a button in the **Customization Workbench**.

- Transfer the production repository to your shared model repository on your database server and replace the eap file by a shortcut to you shared model repository. The shortcut must have the same name (**Labnaf_Prod_Repository.eap)** in order to be recognized by the Customization Workbench.

- **Very** simply customize the metamodel stored in the production repository. Just add or remove connectors in the language metamodel stored in the production model repository

- Regenerate the dynamic connector validation by pressing a button in the **Customization Workbench.**
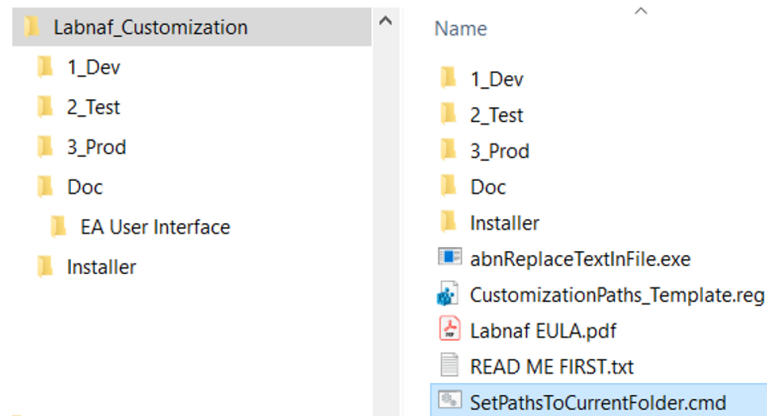
SET PATHS TO THE LABNAF_CUSTOMIZATION FOLDER

Before installing and starting the Customization Workbench for the first time, double-click on the command called "**SetPathsToCurrentFolder.cmd**".

Automatic configuration to start customization

- Copy the Labnaf_Customization folder anywhere you want on your file system
- Double-click on "SetPathsToCurrentFolder.cmd"

Labnaf_Customization	Name
1_Dev	1_Dev
2_Test	2_Test
3_Prod	3_Prod
Doc	Doc
EA User Interface	Installer
Installer	abnReplaceTextInFile.exe
	CustomizationPaths_Template.reg
	Labnaf EULA.pdf
	READ ME FIRST.txt
	SetPathsToCurrentFolder.cmd

This updates the Labnaf configuration files and registry keys following the "Labnaf_Customization" folder location.

INSTALL THE CUSTOMIZATION WORKBENCH AND THE LANGUAGE TRANSFORMER

Go to the **Installer** folder.

Double-click on the installers (MSI) and follow the instructions.

USING THE SOFTWARE

To start the **Customization Workbench**

- Click on the **Start** menu and select "**Labnaf > Customization Workbench**".

The **Language Transformer** is a command line executable

- C:\Program Files (x86)\Labnaf\LanguageTransformer\lnxf.exe

For further information please go to the **Doc** folder and read the user guides.