



# Unified Framework for Driving Transformations

## Labnaf Language Transformer

## **Reference Guide**

See also the “**Labnaf Language Transformer - User Guide**”

# WARNING

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

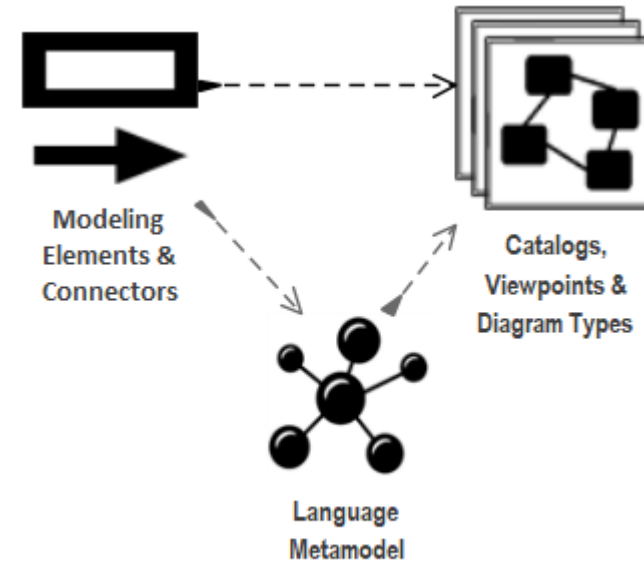
**ALWAYS** test your language transformer commands using a repository backup.

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

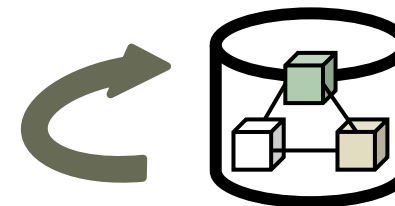
**ALWAYS** remember that type and stereotype names are case sensitive.

# Labnaf Customization Steps

1. Customize the language following your organization requirements

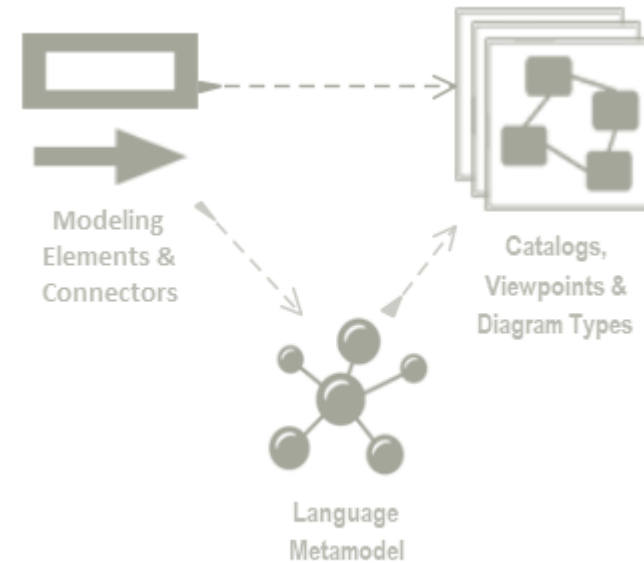


2. Adapt existing repository content

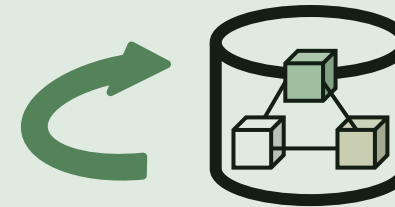


# Labnaf Language Transformer

## 1. Customize the language

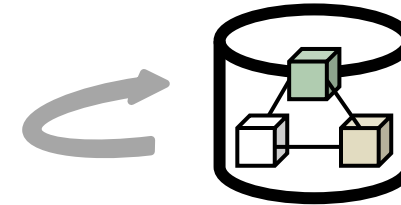


## 2. Adapt existing repository content



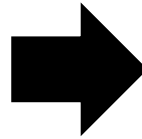
# The Language Transformer adapts the language in existing repository content

- **ChangeElementType**
- **ChangeConnectorType**
- **ChangeDiagramType**
- **ChangeDiagramTypesDefinedInCsv**
- **TemplateMetamodelFromActiveMetamodel**
- **TvRename**
- **TvDelete**



# Inxf usage

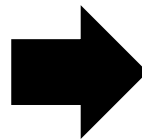
Inxf



```
Usage : Inxf Command [arguments]
Available Commands:
    ChangeElementType
    ChangeConnectorType
    ChangeDiagramType
    ChangeDiagramTypesDefinedInCsv
    TemplateMetamodelFromActiveMetamodel
    TvRename
    TvDelete
```

Inxf {command name}

Example: if you type  
« Inxf TvRename » you  
get the following info:



```
Command: TvRename
Description: Rename tag.

Usage : Inxf TvRename [arguments]
Arguments:
    RepoPathName: Model repository path name.
    FromTagName: Name of the tag to be renamed.
    ToTagName: New tag name.
    [ElementType]: Restrict the scope to this element type.
    [ElementStereotype]: Restrict the scope to this element stereotype.
```

# When a command parameter has some spaces in the middle

- Put the command parameter between parentheses
- Do the same for variables which, when they will be resolved, might contain some spaces

## **Example:**

```
"%LNXF%" ChangeDiagramType "%REPO%" * "BPMN2.0::Business Process" Activity  
"Labnaf - Enterprise Function::Functional Landscape"
```

# ChangeElementType

To change the type and/or the stereotype of existing elements in a repository:

```
ChangeElementType: Start (2024-04-30 16:19:04)
```

```
Labnaf commands log dir: C:\Users\User\Desktop\Labnaf_Cmd_Output\Log
```

```
Command: ChangeElementType
```

```
Description: Change element types and stereotypes in a model repository.
```

```
Usage : "C:\Program Files\Labnaf\LanguageTransformer\lnxf.exe" ChangeElementType [arguments]
```

```
Arguments:
```

```
SourceRepoPathName: Path name of the source model repository where the elements must be changed. ** NOT NEEDED IN A LABNAF POWERSCRIPT FILE (.lpsc) **
```

```
FromType: The element type to be changed OR '*' if the type is not a selection criteria.
```

```
FromStereotype: The element stereotype to be changed OR '-' for changing elements without a stereotype.
```

```
ToType: The new element type to be set for each element OR 'DerivedType' to derive the type from the following stereotype
```

```
ToStereotype: The new element stereotype to be set for each element OR '-' for removing the stereotype (if any).
```

```
[ToTagName]: The name of the tag to be added to each element.
```

```
[ToTagValue]: The tag value for that named tag.
```



# ChangeConnectorType

To change the type and/or the stereotype of existing connectors in a repository:

Command: ChangeConnectorType

Description: Change connector types and stereotypes in a model repository following criteria.  
Element and connector types can be replaced by the constant 'DerivedType' to indicate that they need to be automatically derived from the stereotype that follows.

Usage : "C:\Program Files\Labnaf\LanguageTransformer\lnxf.exe" ChangeConnectorType [arguments]

Arguments:

SourceRepoPathName: Path name of the source model repository where the connectors must be changed. \*\* NOT NEEDED IN A LABNAF POWERSCRIPT FILE (.lpsc) \*\*

/all|/selective: Change all connectors of a certain type and stereotype or only a selected subset based on source and destination types and stereotypes.

/samedirection|/reversedirection: Keep or reverse the connector direction. If the connector direction is reversed, please perform a repository integrity check to finalise updates.

FromType: The connector type to be changed OR '\*' if the type is not a selection criteria.

FromStereotype: The connector stereotype to be changed OR '-' for changing connectors without a stereotype.

ToType: The new connector type to be set for each selected connector.

ToStereotype: The new connector stereotype to be set for each selected connector.

[SrcElmType]: Change the connector type only when the connector's source element is of this type.

[SrcElmStereotype]: Change the connector type only when the connector's source element is of this stereotype.

[DestElmType]: Change the connector type only when the connector's destination element is of this type.

[DestElmStereotype]: Change the connector type only when the connector's destination element is of this stereotype.

# ChangeDiagramType

To change the type and/or the stereotype of existing diagrams in a repository:

Command: ChangeDiagramType

Description: Change diagram types in a model repository.

Usage : lnx ChangeDiagramType [arguments]

Arguments:

SourceRepoPathName: Path name of the source model repository where the diagrams must be changed.

FromType: The diagram type to be selected OR '\*' if the type is not a selection criteria.

FromStereotype: The diagram stereotype to be selected.

ToType: The new diagram type to be set for each selected diagram.

ToStereotype: The new diagram stereotype to be set for each selected diagram.

# ChangeDiagramTypesDefinedInCSV

To change multiple types and/or stereotypes of existing diagrams in a repository:

Command: `ChangeDiagramTypesDefinedInCsv`

Description: Change diagram types in a model repository based on a CSV configuration file.  
Wild cards '\*' and '-' used in command `ChangeDiagramType` are applicable.

Usage : `lnxf ChangeDiagramTypesDefinedInCsv [arguments]`

Arguments:

`SourceRepoPathName`: Path name of the source model repository where the diagrams must be changed.

`CsvConfigPathName`: Path name of the CSV configuration file.

The first row in the CSV file is fixed and contains the field headers:

`FromType,FromStereotype,ToType,ToStereotype`

`[CsvFieldDelimiter]`: The field delimiter in the CSV configuration file (default is ',')

## Sample input CSV

	A	B	C	D
1	<b>FromType</b>	<b>FromStereotype</b>	<b>ToType</b>	<b>ToStereotype</b>
2	Logical	LABN::Corporate Strategy Map	Logical	Labnaf - Vision::Corporate Strategy Map
3	Logical	LABN::Goals	Logical	Labnaf - Vision::Goals
4	Logical	LABN::Principles	Logical	Labnaf - Vision::Principles
5	Logical	LABN::Standards (as rules)	Logical	Labnaf - Vision::Standards (as rules)
6	Logical	LABN::Demands	Logical	Labnaf - Vision::Demands
7	Logical	LABN::High Level Requirements Roadmap	Logical	Labnaf - Vision::High Level Requirements Roadmap

# TemplateMetamodelFromActiveMetamodel

Creates a template metamodel package for building your own metamodel from scratch. What you get is a new package with new elements of the same type and stereotype as in the current metamodel but without any connection.

Prerequisite: The original reference metamodel must exist in the repository.

**To easily create the new metamodel from scratch:**

```
Command: TemplateMetamodelFromActiveMetamodel

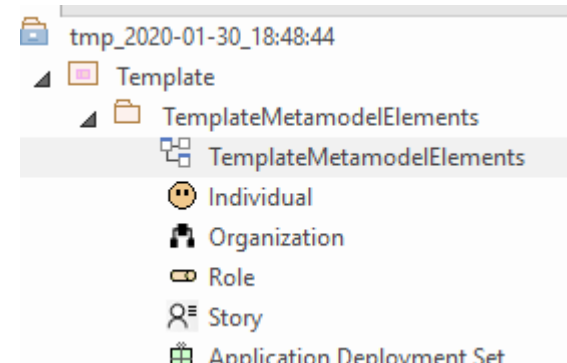
Description: Create a template metamodel package for building you own metamodel from scratch.

Usage : lnx TemplateMetamodelFromActiveMetamodel [arguments]

Arguments:

    RepoPathName: Model repository path name.
```

When the process is completed, a package contains the list of metamodel elements.



# TvRename

To rename a tagged value for existing elements in a repository:

Command: TvRename

Description: Rename tag.

Usage : lnx TvRename [arguments]

Arguments:

RepoPathName: Model repository path name.

FromTagName: Name of the tag to be renamed.

ToTagName: New tag name.

[ElementType]: Restrict the scope to this element type.

[ElementStereotype]: Restrict the scope to this element stereotype.

# TvDelete

To delete a tagged value for existing elements in a repository:

Command: TvDelete

Description: Delete tag.

Usage : lnxvf TvDelete [arguments]

Arguments:

RepoPathName: Model repository path name.

TagName: Name of the tag to be deleted.

[ElementType]: Restrict the scope to this element type.

[ElementStereotype]: Restrict the scope to this element stereotype.