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.

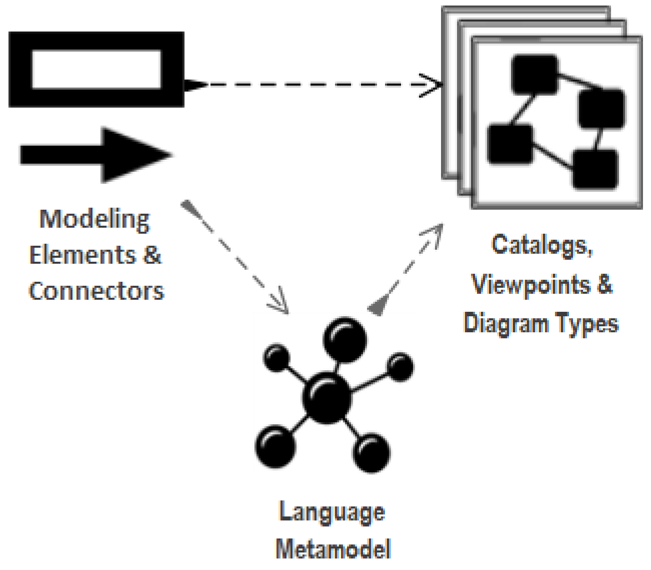
ALWAYS test your language transformer commands using a repository backup.

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

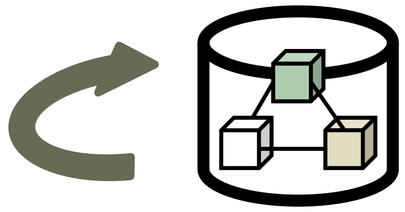
ALWAYS remember that type and stereotype names are case sensitive.

Labnaf Customization Steps

1. Customize the language following your organization requirements

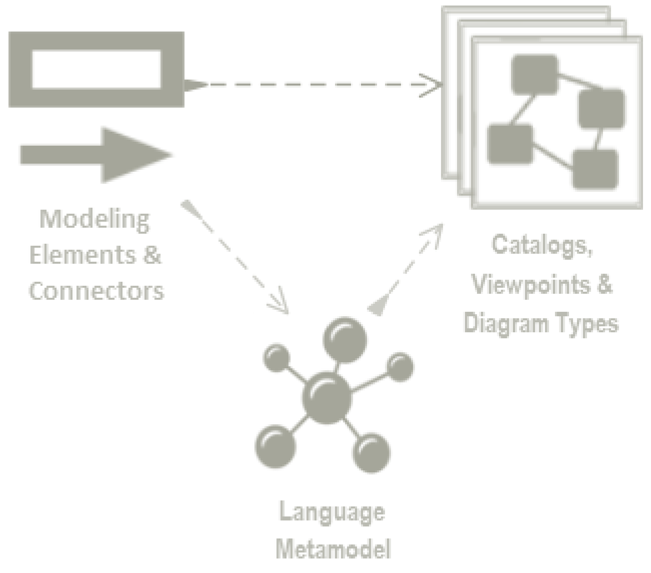

Modeling Elements & Connectors
Catalogs, Viewpoints & Diagram Types
Language Metamodel

2. Adapt existing repository content

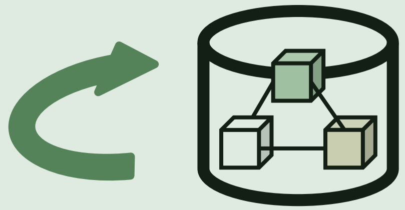


Labnaf Language Transformer

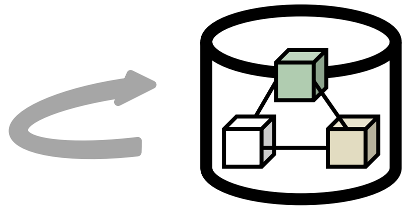
1. Customize the language


Modeling Elements & Connectors
Catalogs, Viewpoints & Diagram Types
Language Metamodel

2. **Adapt existing repository content**



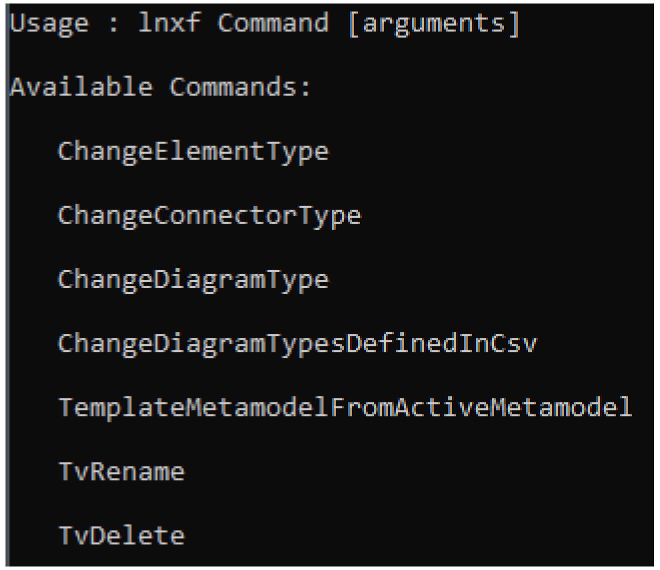
The Language Transformer adapts the language in existing repository content



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

lnxf usage

lnxf



```
Usage : lnxf Command [arguments]

Available Commands:

   ChangeElementType

   ChangeConnectorType

   ChangeDiagramType

   ChangeDiagramTypesDefinedInCsv

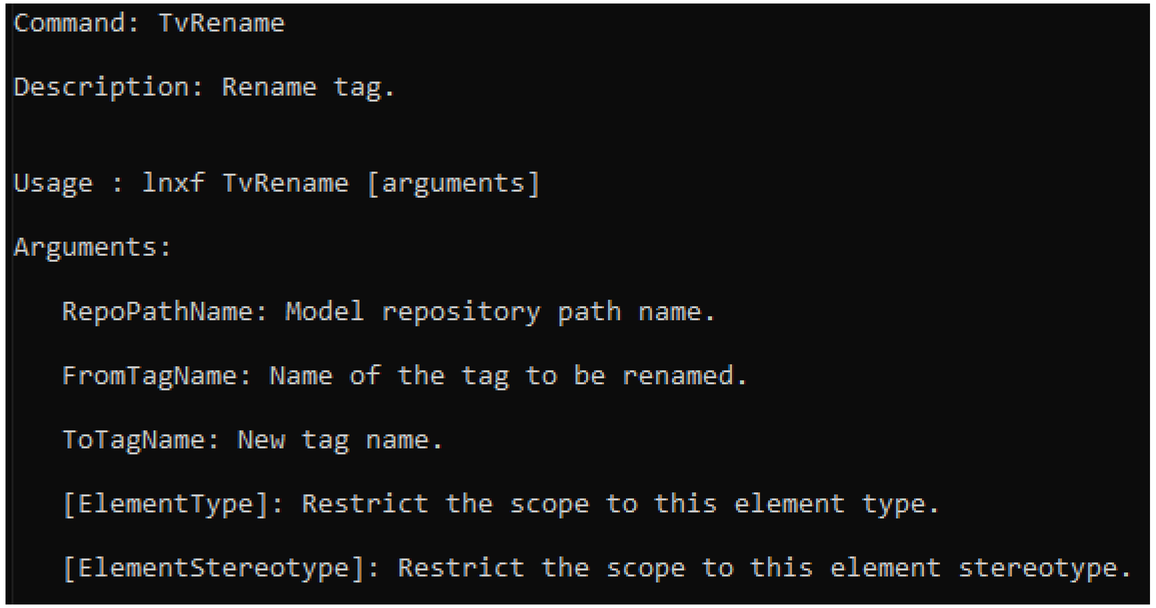
   TemplateMetamodelFromActiveMetamodel

   TvRename

   TvDelete
```

lnxf {command name}

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



```
Command: TvRename

Description: Rename tag.


Usage : lnxf 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

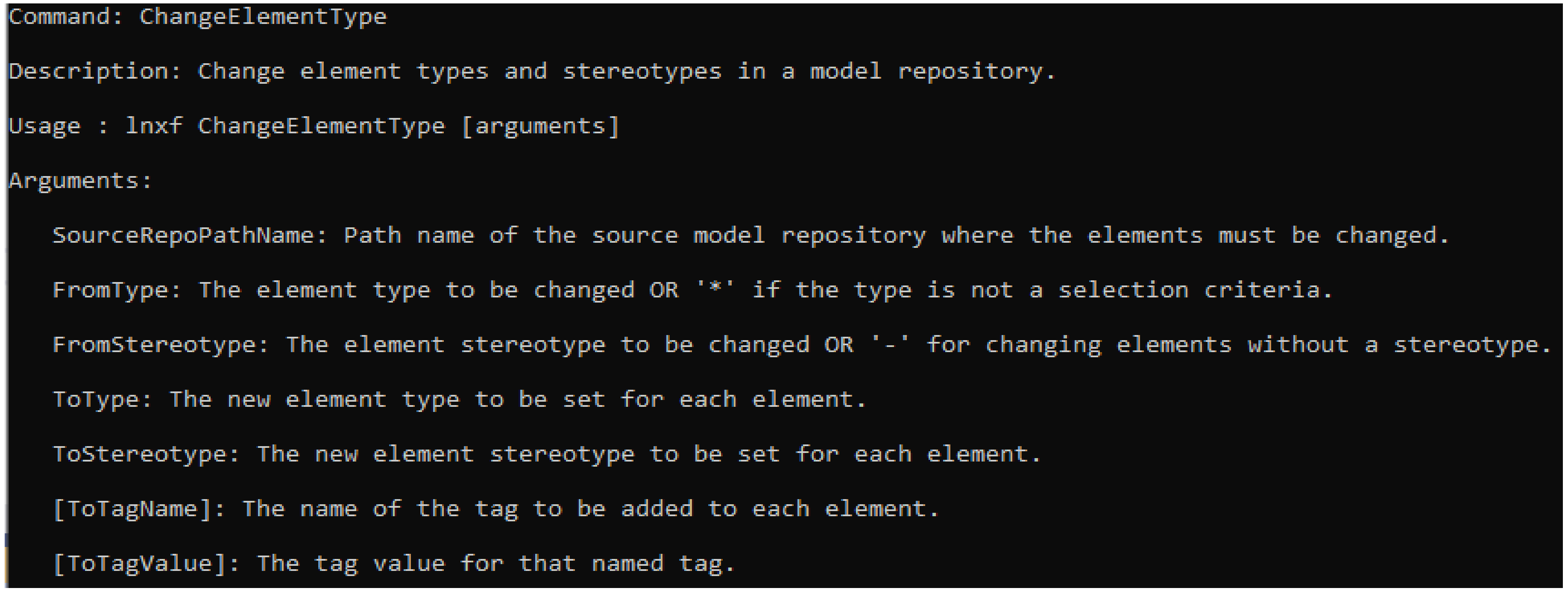
- Put the command parameter between parentheses
- Do the same for variables which, when they will be resolved, might contain some spaces

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:



```
Command: ChangeElementType

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

Usage : lnxf ChangeElementType [arguments]

Arguments:

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

   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.

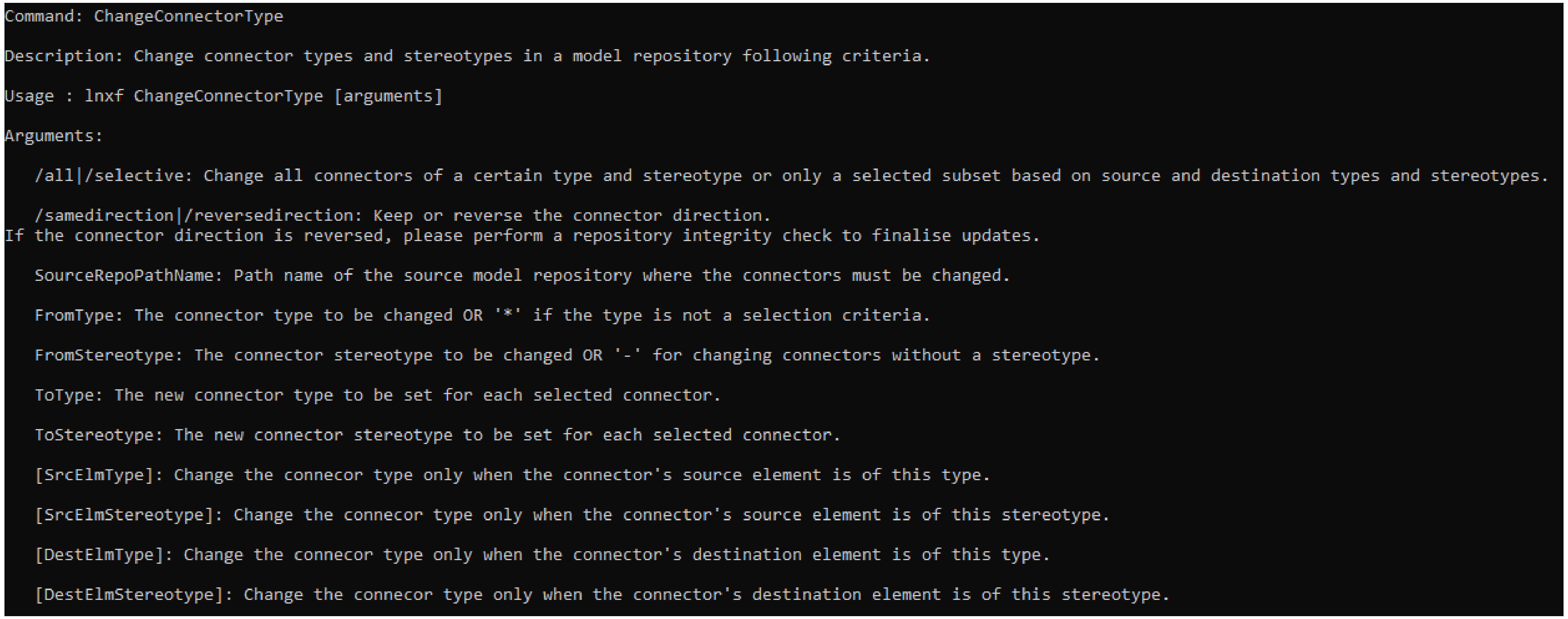
   ToStereotype: The new element stereotype to be set for each element.

   [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.

Usage : lnxf ChangeConnectorType [arguments]

Arguments:

   /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.

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

   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 connecor type only when the connector's source element is of this type.

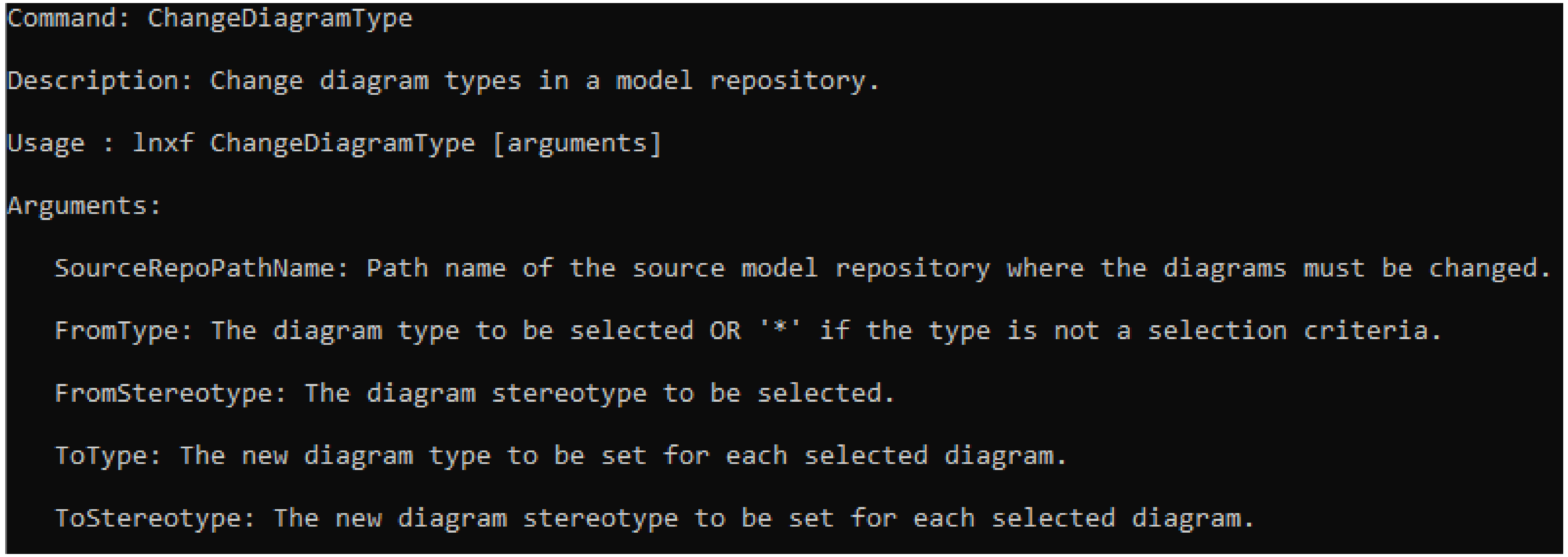
   [SrcElmStereotype]: Change the connecor type only when the connector's source element is of this stereotype.

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

   [DestElmStereotype]: Change the connecor 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 : lnxf 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.

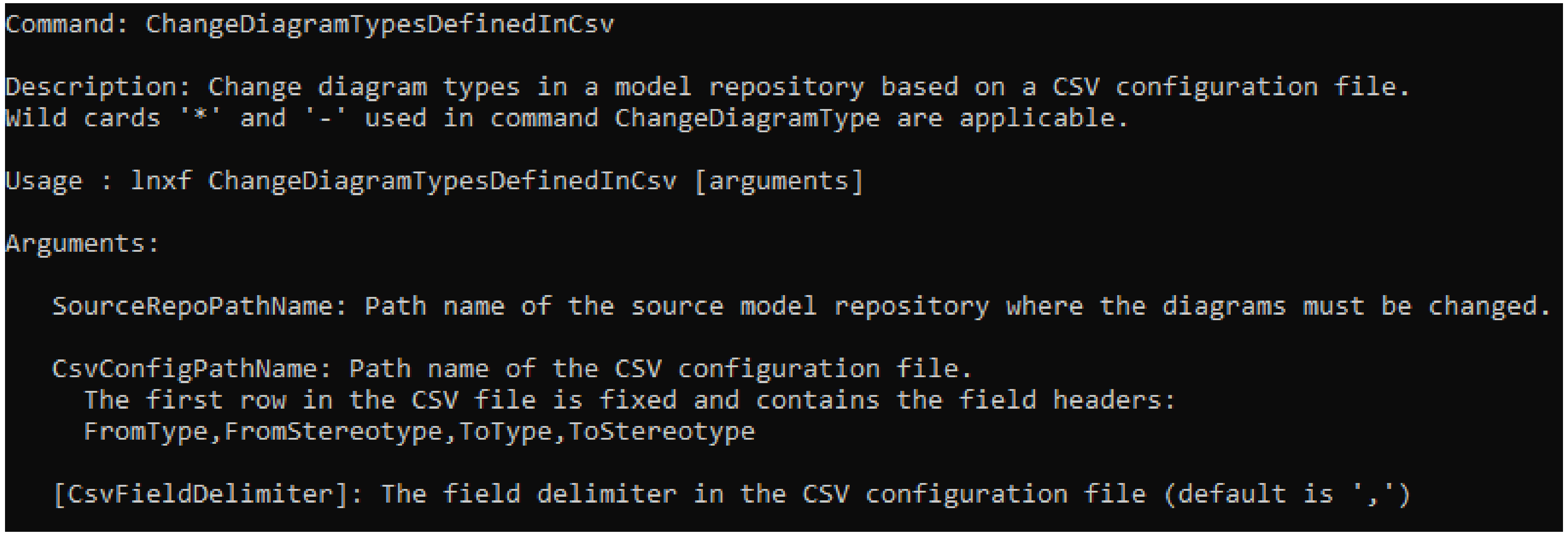
   FromStereotype: The diagram stereotype to be selected.

   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]

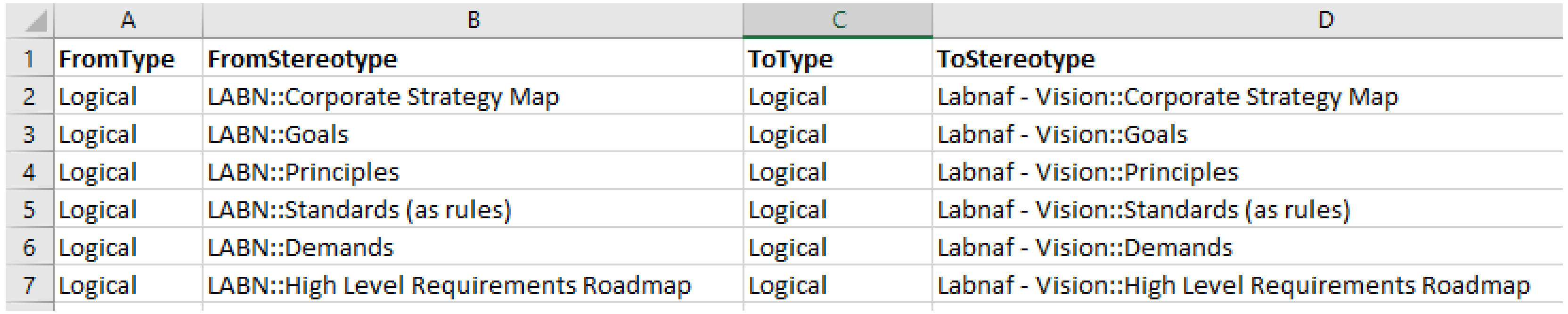
Arguments:

   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

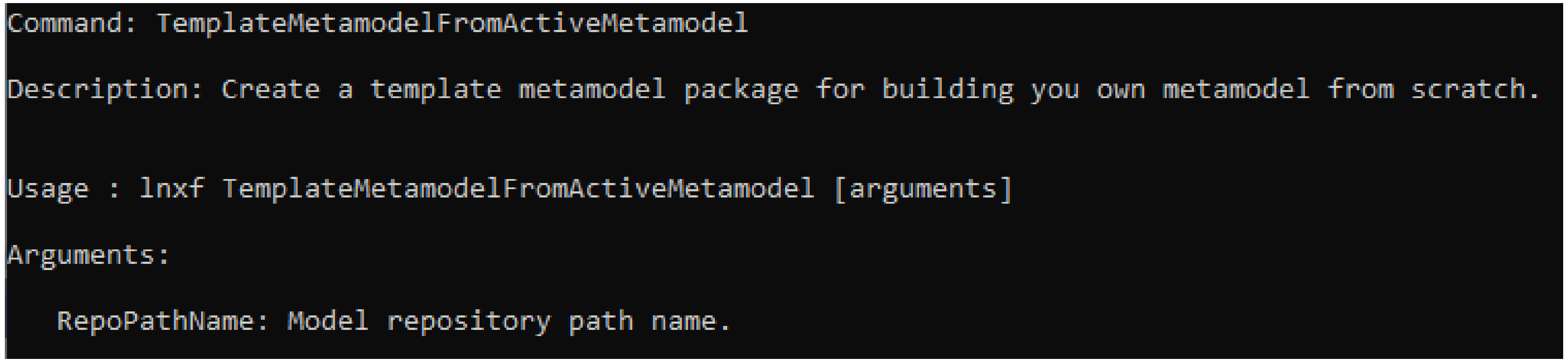


	A	B	C	D
1	**FromType**	**FromStereotype**	**ToType**	**ToStereotype**
2	Logical	LABN::Corporate Strategy Map	Logical	Labnaf - Vision::Corporate Strategy Map
3	Logical	LABN::Goals	Logical	Labnaf - Vision::Goals
4	Logical	LABN::Principles	Logical	Labnaf - Vision::Principles
5	Logical	LABN::Standards (as 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

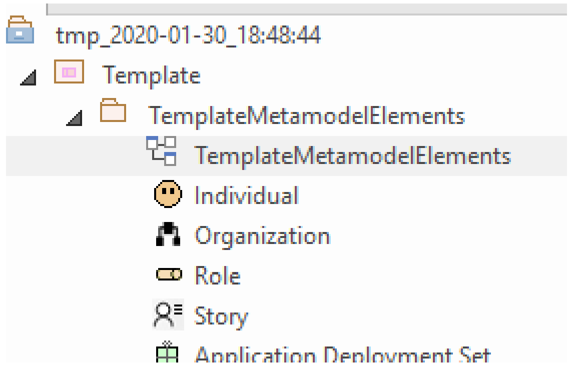
Description: Create a template metamodel package for building you own metamodel from scratch.


Usage : lnxf TemplateMetamodelFromActiveMetamodel [arguments]

Arguments:

   RepoPathName: Model repository path name.
```

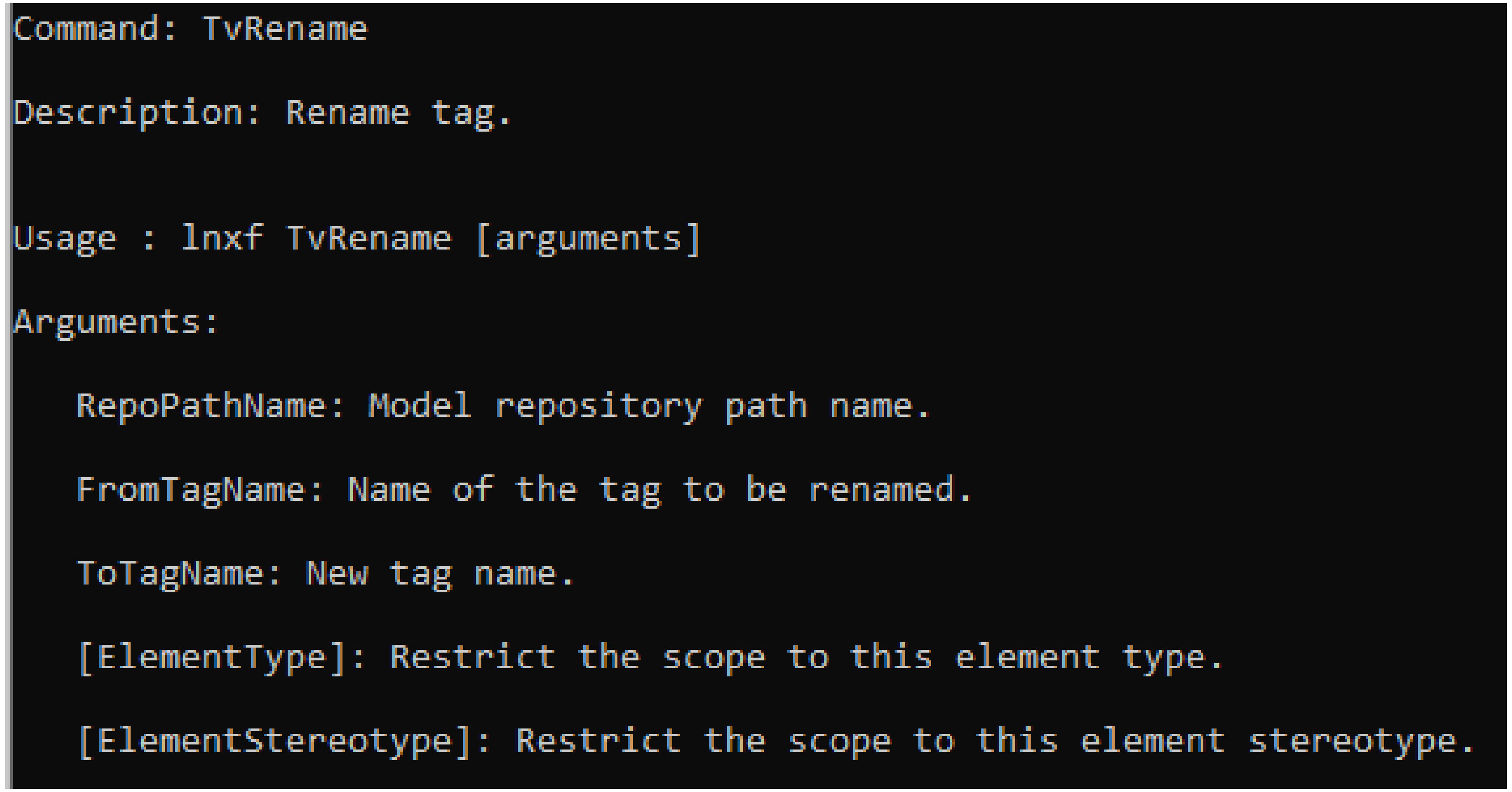
When the process is completed, a package contains the list of metamodel elements.



```
tmp_2020-01-30_18:48:44
  Template
    TemplateMetamodelElements
      TemplateMetamodelElements
      Individual
      Organization
      Role
      Story
      Application Deployment Set
```

TvRename

To <u>rename</u> a tagged value for existing elements in a repository:



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Command: TvRename

Description: Rename tag.


Usage : lnxf TvRename [arguments]

Arguments:

   RepoPathName: Model repository path name.

   FromTagName: Name of the tag to be renamed.

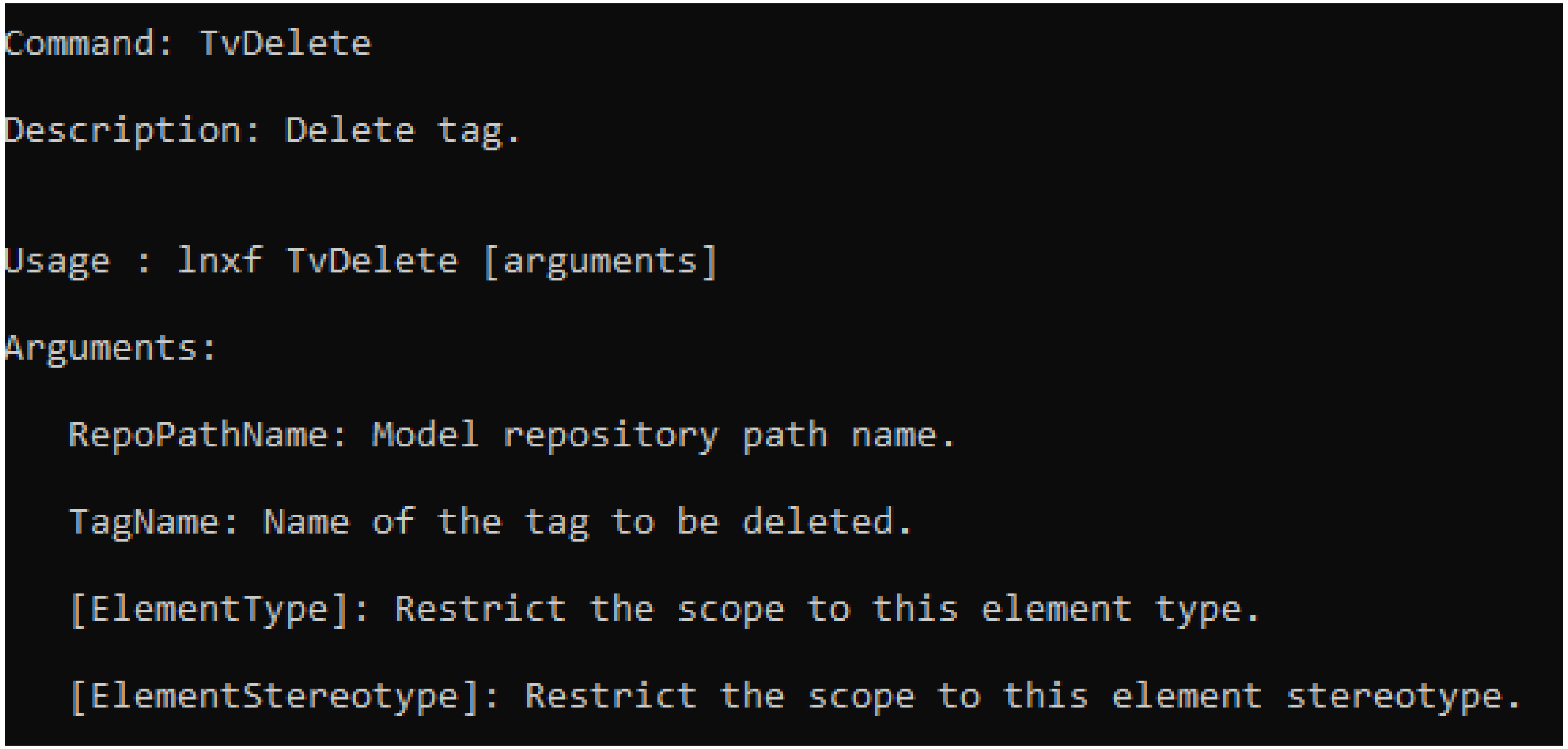
   ToTagName: New tag name.

   [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 : lnxf 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.
```