

Unified Framework for Driving Transformations

Labnaf PowerShell

User Guide

Labnaf PowerShell Commands

1. Overview

- 2. Strategy and Architecture Operations
- 3. Systems Integrations and Content Refactoring
- 4. Command Compatibility Matrix

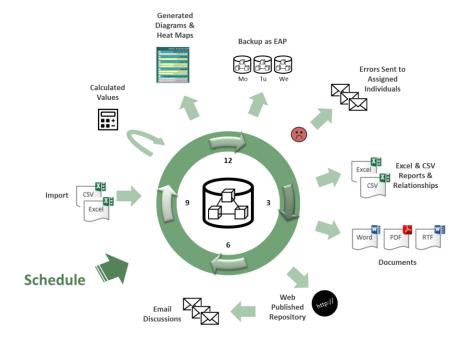
Related resources (latest versions)

- Labnaf PowerShell Reference Guide: https://www.labnaf.one/EndUserMaterial/Labnaf PowerShell/Labnaf%20PowerShell%20-%20Reference%20Guide.pdf
- Labnaf On-line Guidance: https://www.labnaf.one/guidance/index.html?guid=569FF62A-5210-4359-923F-4EB00EB03D61
- Sample data: Provided with the Labnaf PowerShell software

The Labnaf PowerShell provides command line and scheduled access to the repository content

Commands address two main groups of uses cases

Strategy and Architecture Operations



Systems Integrations and Content Refactoring

Running commands on the command line

Inps



Usage : lnps Command [arguments]

Available Commands:

AutoConnectorsDelete

AutoConnectorsGenerate

BackupToAccessFile

CalculateTaggedValues

ClonePackage

CreatePackage

ExportToXmi

GenerateDiagrams

GenerateDoc

GenerateHTML

GenerateTabularReports

ImportConnections

 ${\tt ImportFromXmi}$

 ${\tt ImportTabularReport}$

 ${\tt MoveElementsToCalculatedParent}$

MoveElementsToPackage

MovePackagesToPackage

RenameItem

ScheduleCommand

SetDiagramProperty

 ${\tt SqlExportToCsv}$

Validate

? => Show details for all commands

Running commands on the command line

Inps?



Shows a detailed description of all commands and their usage

```
C:\Program Files (x86)\Labnaf\PowerShell>lnps ?
Command: AutoConnectorsDelete
Description: Delete generated connectors for child elements following defined element stereotype hierarchies.
Usage : lnps AutoConnectorsDelete [arguments]
  SourceRepoPathName: Path name of the source repository (EAP file).
Command: AutoConnectorsGenerate
Description: Generate connectors for child elements following defined element stereotype hierarchies.
Usage : lnps AutoConnectorsGenerate [arguments]
  SourceRepoPathName: Path name of the source repository (EAP file).
Command: BackupToAccessFile
Description: Backup a DBMS or Access repository to an Access Repository.
Usage : lnps BackupToAccessFile [arguments]
Arguments:
  SourceRepoPathName: Path name of the source repository (EAP file).
  DestEapPathName: Path name of the destination Access repository (EAP file).
  LogFilePath: Path name of the log file name.
Command: CalculateTaggedValues
```

Running commands on the command line

Inps [-]{command name}



Example: if you type « Inps GenerateTabularReports » you get the following info.

```
Command: GenerateTabularReports

Description: Generate spreadsheets from a model repository based on configuration stored in that same repository.

Usage: Inps GenerateTabularReports [arguments]

Arguments:

SourceRepoPathName: Path name of the source model repository (EAP file).

OutputDirectoryPath: Directory path name where the spreadsheets must be generated. The name of each spreadsheet file is the name of the template report.

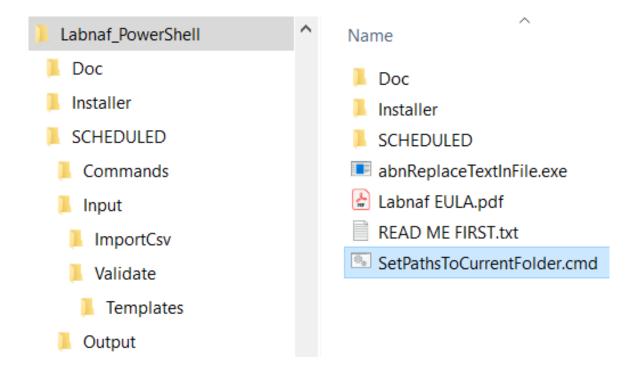
[ElementPrototypeName]: The name of a specific element prototype name for which all embedded tabular report templates must be applied.

[TabularReportTemplateName]: The name of a specific tabular report template to be applied.
```

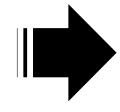
Prefix the command name with '-' to run in non verbose mode

Automatic configuration

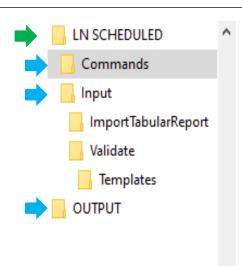
- Copy the Labnaf_PowerShell folder anywhere you want on your file system
- Double-click on "SetPathsToCurrentFolder.cmd"

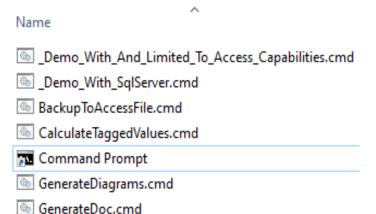


This updates the Labnaf PowerShell configuration files following the "Labnaf_PowerShell" folder location.



Preconfigured batches calling commands with predefined settings







The paths in this command were reset automatically



ImportTabularReport.cmd
 RunAll.cmd
 SetPaths.cmd
 ShowListOfAvailableCommands.cmd
 Validate.cmd

GenerateTabularReports.cmd

GenerateHTML.cmd

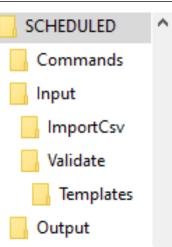
```
Set LABNAF_POWERSHELL=C:\Program Files (x86)\Labnaf\PowerShell\lnps.exe

set SCHEDULED_DIR=C:\Users\User\Desktop\Labnaf_PowerShell\SCHEDULED
set COMMANDS_DIR=%SCHEDULED_DIR%\Commands

set INPUT_DIR=%SCHEDULED_DIR%\Input
set OUTPUT_DIR=C:\Users\User\Desktop\Labnaf_PowerShell\SCHEDULED\Output

set REPOSITORY=%INPUT_DIR%\Repository.eap
```

Preconfigured Command Scheduling



```
SetTimes.cmd 🔣
     REM -- SINGLE START TIME --
    Set StartTime AllSingleSequence=00:00:00
     REM -- SPECIFIC START TIME FOR EACH TASK --
    Set StartTime Cleanup BackupToAccesFile=22:00:00
    Set StartTime Cleanup GenerateHTML=22:00:05
10
    Set StartTime ImportCsv=22:30:00
11
    Set StartTime CalculateTaggedValues=23:00:00
13
    Set StartTime GenerateDiagrams=23:30:00
14
    Set StartTime BackupToAccessFile=00:00:00
    Set StartTime Validate=01:00:00
17
    Set StartTime GenerateTabularReports=02:00:00
    Set StartTime GenerateDoc=02:30:00
    Set StartTime GenerateHTML=03:00:00
21
24
    set SCHEDULED MINUTES UNTIL RESTART=1440
```

Name Commands Input Output _ScheduleAllMultipleThreads.cmd _ScheduleAllSingleSequence.cmd Command Prompt Schedule_BackupToAccesFile.cmd Schedule_CalculateTaggedValues.cmd Schedule_GenerateDiagrams.cmd Schedule_GenerateDoc.cmd Schedule_GenerateHTML.cmd Schedule_GenerateTabularReports.cmd Schedule_ImportCsv.cmd Schedule Validate.cmd ScheduleSequence.cmd SetEnvVars.cmd SetTimes.cmd

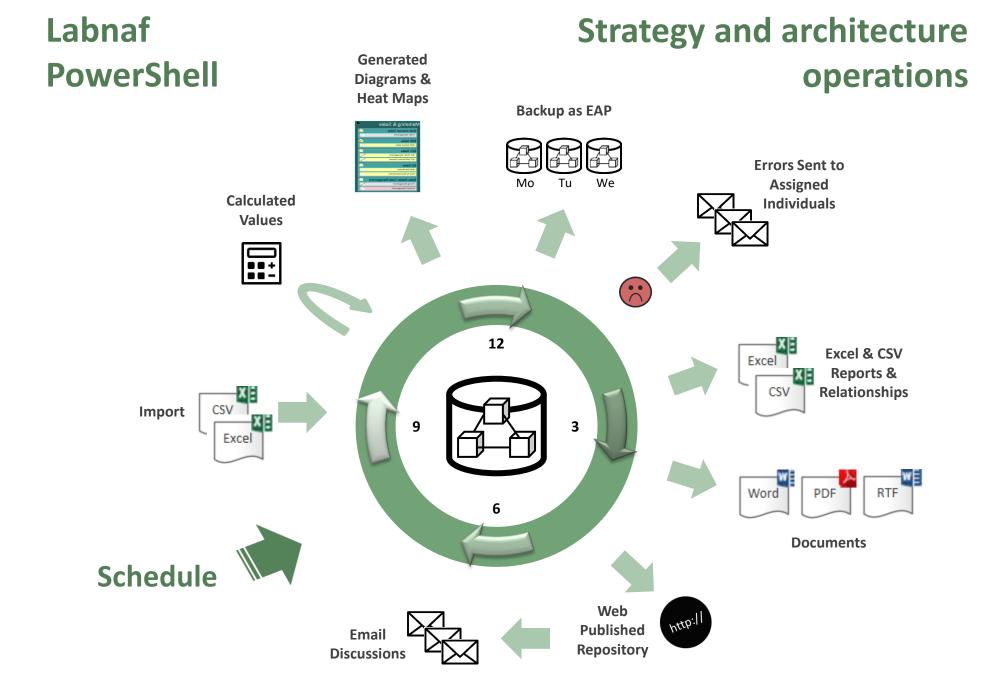
Labnaf PowerShell Commands

1. Overview

2. Strategy and Architecture Operations

3. Systems Integrations and Content Refactoring

4. Command Compatibility Matrix



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Labnaf PowerShell commands for Strategy and architecture operations

- Import Tabular Report (Excel, CSV)
- Calculate Values
- Validate and send emails to assigned individuals
- Generate Diagrams
- Generate Tabular Report (Excel, CSV), Doc (Word, RTF, PDF), Html
- Auto Connectors Generate / Delete
- Backup To Access File
- Schedule Command (not only Labnaf PowerShell commands)

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ImportTabularReport

Sample input data for updating tagged values of existing elements

File to be imported can be .CSV or .XLSX (Excel)

| | A | В | C | D | E |
|---|--|----------------------------|-----------------------------|-------------------------|-------------|
| 1 | guid | application_owner | application_owner_delegates | it_responsible_service | legal_owner |
| 2 | {D303A068-2CAA-438d-9E81-287EE9777F1D} | homer.simpson@labnaf.local | | Microsoft development | Labnaf |
| 3 | {305AA65E-A3F8-435b-81EC-C22EB7DF01C4} | marge.simpson@labnaf.local | lisa.simpson@labnaf.local | Enterprise Architecture | Labnaf |
| 4 | {07F7FA8B-A01C-4aed-B5C2-80C9D62BD3FF} | bart.simpson@labnaf.local | | SAP development | Labnaf |

OPTIONAL repository column mappings are stored in a .CSV file

| 1 | А | В | |
|---|-----------------------------|-----------------------|--|
| 1 | Input_Column_Names | Target_Column_Names | |
| 2 | guid | ea_guid | |
| 3 | application_owner | IT_Contact | |
| 4 | application_owner_delegates | IT_Contact_Delegates | |
| 5 | it_responsible_service | IT_ResponsibleService | |
| 6 | legal_owner | Legal_Owner | |

To start the import:

```
C:\Program Files (x86)\Labnaf\PowerShell>lnps ImportTabularReport
Command: ImportTabularReport
Description: Import elements, properties and tagged values from a CSV or Excel file into a SQL Server database.
       If a field name mapping file (CSV) is provided, the first line must contain the following headers:
               Input Column Names, Target Column Names
       Works also with Access databases but only for updating existing elements.
       Identify existing elements using
          either the ea_guid,
          or an alternative unique key.
          To define a unique key, you simply add a '#' in front of the property or tag name
          If multiple unique keys are provided, they are searched in this order: Tagged Value, Name, Alias.
       Create the element if the element is not found and if 'EnableCreate' option is present on the command line.
       The package where new elements are added is identified by a package guid provided on the command line
       Initial value calculation applies to any imported new element.
Usage : lnps ImportTabularReport [arguments]
Arguments:
  RepoPathName: Path name of the model repository (EAP file).
   SourceFile: A CSV or Excel file containing the data that needs to be imported.
  ColumnMappingFile: An optional CSV file containing the mapping between the input and output column namesor '-' if all input and output column names are the same.
   ElementStereotypeName: The stereotype of the elements that need to be updated.
   [EnableCreate]: Enable creation of new elements if they are not found.
   [TargetPackageGuidForNewElements]: The package where the new elements must be stored.
```

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Import Tabular Report (cont.)

Beware of the different definitions of the "Notes" / "Note" property name in Sparx EA.

In the Sparx EA API, the property name is called "Note<u>s</u>". In the database, the corresponding column name is called "Note".

For Imports

• In the import file use the word « Notes » (and not « Note »)

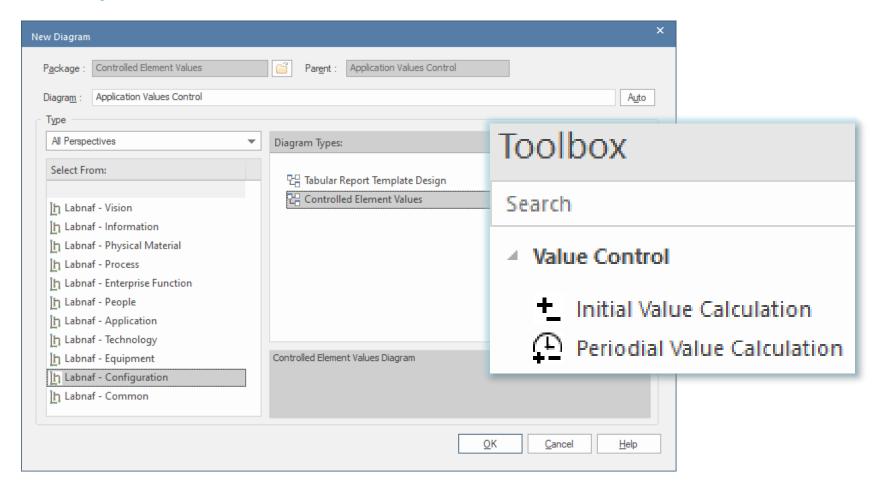
For SELECT statements

In SQL Server, use the word « Note » in queries.
 Example: select Name, Note from t_Object

• In the Sparx EA user interface, use « Note as {Something} ». Indeed « Note » is a reserved word.
Example: select Name, Note as Element_Notes from t_Object

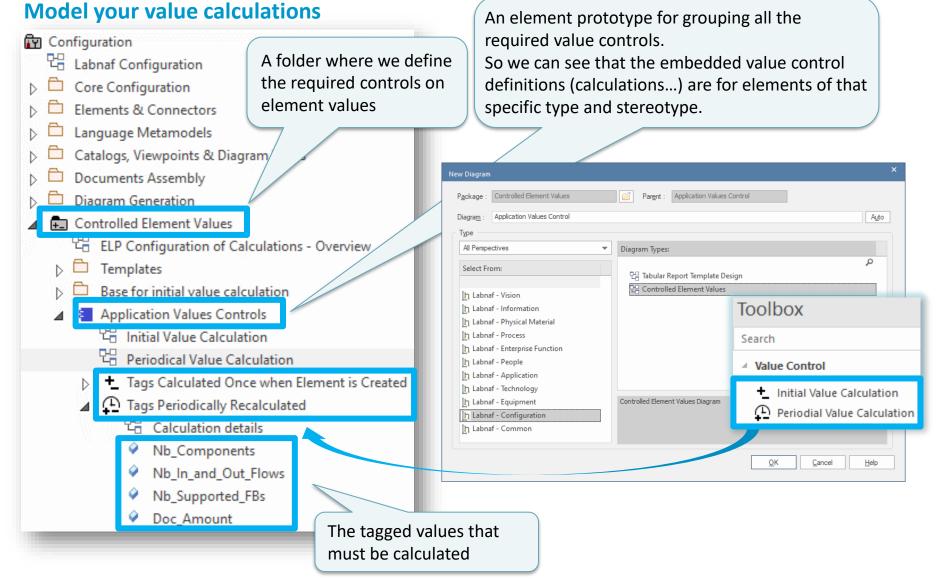
CalculateTaggedValues

Model your value calculations



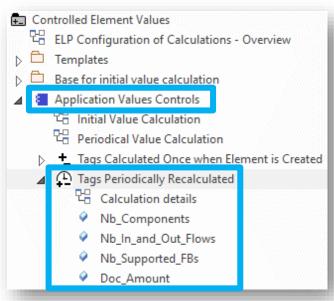
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Calculate Tagged Values (cont.)

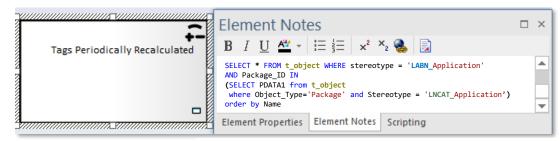


1. Structure: What tagged values need to be calculated for which stereotype?

Calculate Tagged Values (cont.)



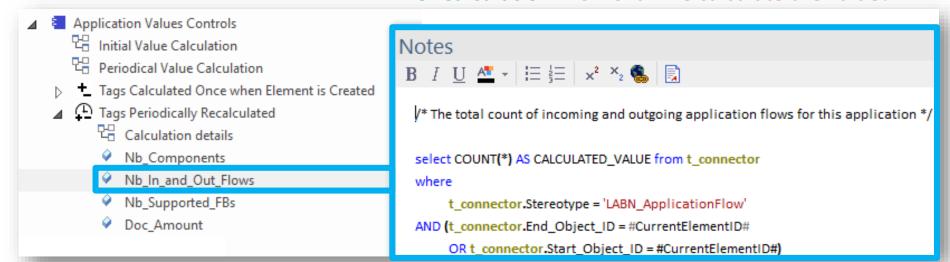
2. Scope (optional): Which elements need to be updated?



By default, **all elements** with the same stereotype "LABN_xxx" as the element prototype are selected from the related catalog with stereotype "LNCAT_xxx".

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3. Calculation: How shall we calculate the value?



Calculate Tagged Values (cont.)

4. To start calculation:

```
Command: CalculateTaggedValues

Description: Calclute values for some defined tags and elements.The elements to be selected, the tags to be updated and the calculation formulas are all defined in the model repository.

Usage: lnps CalculateTaggedValues [arguments]

Arguments:

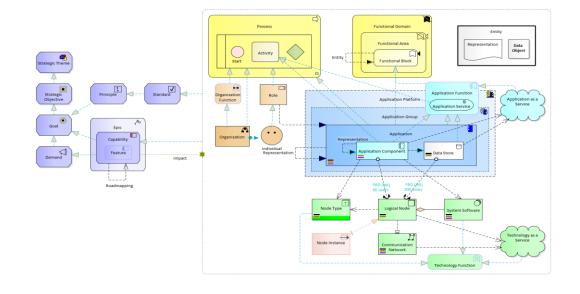
RepoPathName: Repository path name EAP file).

[ElementPrototypeName]: A specific element stereotype for which tagged values must be calculated.

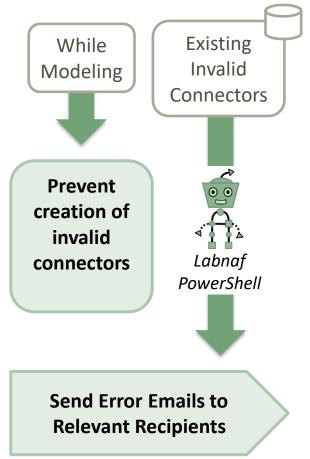
[TagName]: The name of aspecific tagged value that must be calculated.
```

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The Language Metamodel is used both for documentation & automatic model validation



Validate

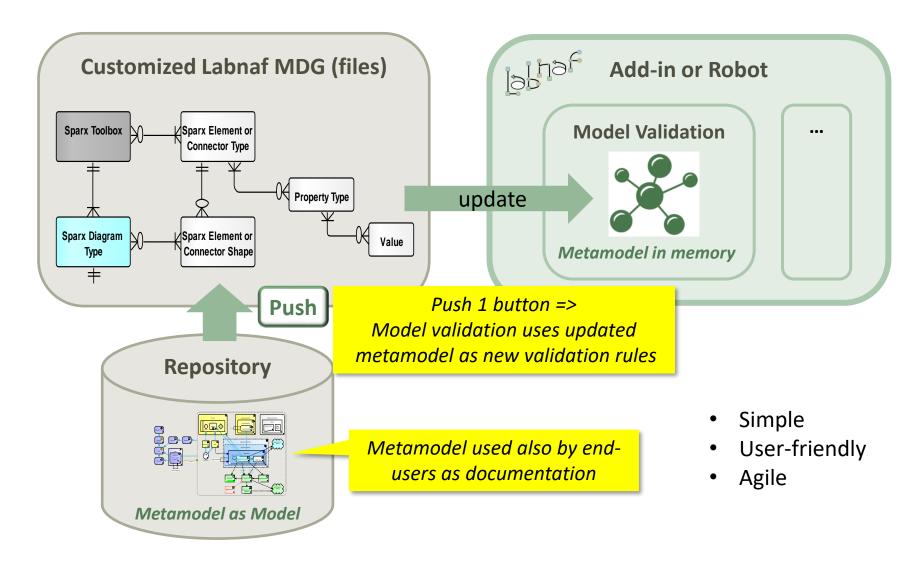


Why do we need periodical validation?

How could we have errors if we prevent users from entering errors?

- At the beginning, informal (invalid) models can be imported and their language can be transformed e.g. from ArchiMate to Labnaf.
- Then, every time you update the metamodel to adapt to your enterprise specificities, some existing model repository content becomes invalid... according to your new rules.

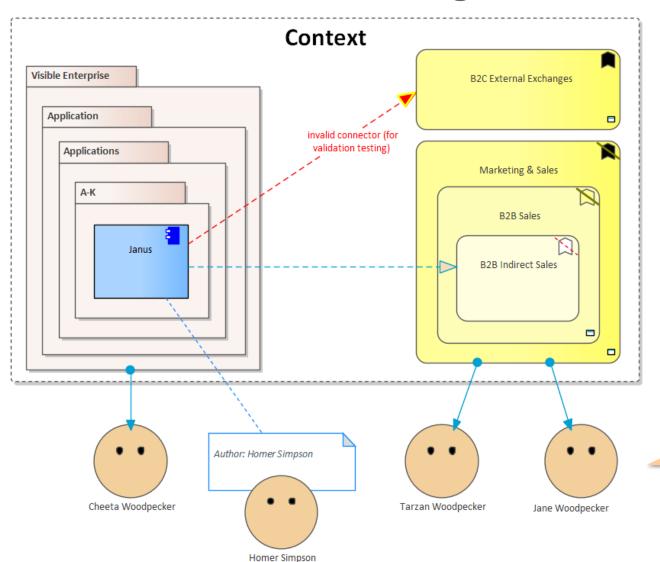
The default metamodel can be <u>very</u> easily updated: One click on a connection in your production repository.



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Error message routing is based on architecture management assignments

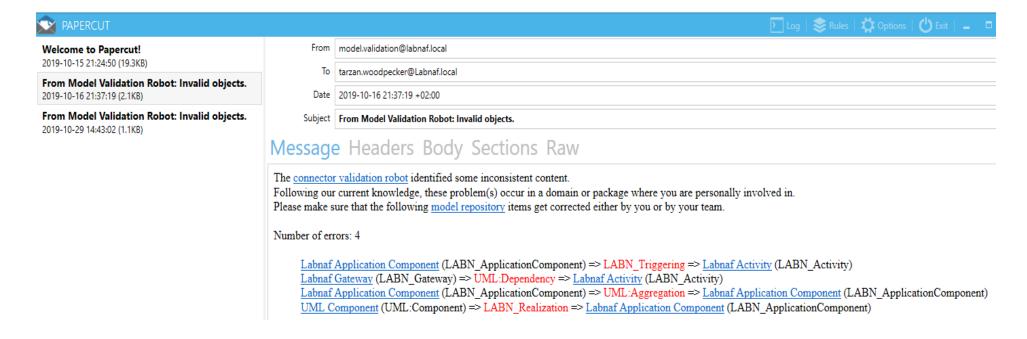


Error message distribution depends on

- recent authors
- individuals assigned to packages
- individuals assigned to domains
- default recipients
- and rules that you can use to combine these different combinations

The catalog of individuals includes email addresses

Sample error message sent to an assigned individual



Validation rules can be further customized

```
<ValidationConfiguration xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd=</pre>
                                                                                       If you want to be specific
"http://www.w3.org/2001/XMLSchema">
                                                                                       about the elements to be
 <SelectElementsInScope>
                                                                                        validated. By default all
SELECT * FROM t object WHERE stereotype like 'LABN %' AND Package ID IN (SELECT PDATA1
                                                                                          Labnaf elements are
from t object where Object Type='Package' and Stereotype like 'LNCAT %') ORDER BY Name
                                                                                              validated.
 </SelectElementsInScope>
 <Sender>model.validation@labnafdemo.com</Sender>
                                                                 Error messages are sent from this email address.
 <SendTo>
   <FirstAvailableAlternativeOnly>true/FirstAvailableAlternativeOnly>
                                                                                      Who will receive the error
   <PeopleAssignedToDomain>true
                                                                                             messages.
   <AuthorDuringMonthsAfterElementCreated>120</AuthorDuringMonthsAfterElementCreated>
   <PeopleAssignedToPackage>true
   <DefaultEmailAddresses>lisa.simpson@labnaf.local
 </SendTo>
 <PublishedRepositoryWebSiteUrl>http://localhost/quidance</PublishedRepositoryWebSiteUrl>
 <DocumentationReferences>
                                                                                        Error messages contains
   <GuidanceWebSiteUrl>http://www.Labnaf.one/quidance</GuidanceWebSiteUrl>
                                                                                        urls to invalid elements.
   <DiagramGuids>
                                                                                        HTML publication should
     <ConnectorValidation>{269E2D0C-3B9E-4d85-915A-87905EB7271F}</ConnectorValidation>
                                                                                          be scheduled as well
     <ModelRepository>{EF41E336-AC6B-4407-88D9-3ECC41725132}</modelRepository>
   </DiagramGuids>
 </DocumentationReferences>
</ValidationConfiguration>
```

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Smtp Server configuration is straightforward

Needed to send error messages to assigned individuals

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To start validation:

```
C:\A\LT\SparxDev\VSProjects\Alain\LabNaf\PowerShell\bin\Release\Dotfuscated>lnps validate

Command: Validate

Description: Validate model repository.

Usage : lnps Validate [arguments]

Arguments:

RepoPathName: Repository path name (EAP file).

ValidationConfigurationFile: Path name of the model validation configuration file.

SmtpServerConfigurationFile: Path name of the SMTP Server configuration file.
```

GenerateDiagrams

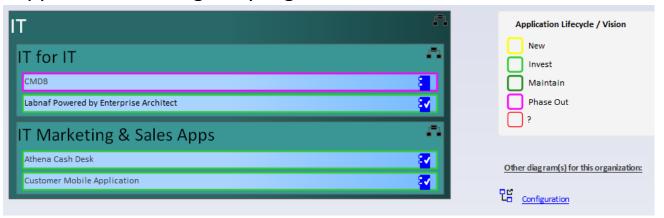
Sample Results

Enterprise Function Taxonomy & Applications Supporting Level 1



Legend for Business Functions Differentiator =? = Y = N Externalized = Y = P Partially externalized Not externalized (default) Nb of Applications / Business function 0 1 2 or more Other diagram(s) for this enterprise function:

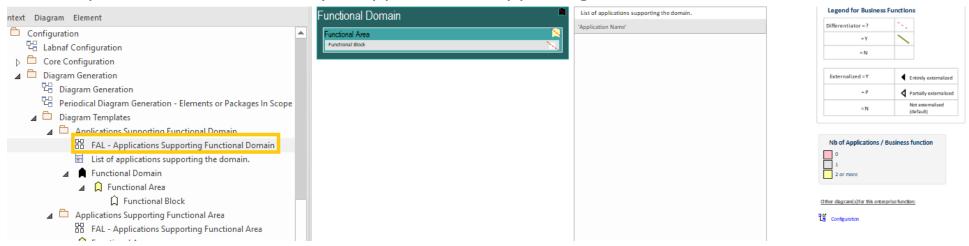
Applications managed by organizations



Sample Diagram Templates

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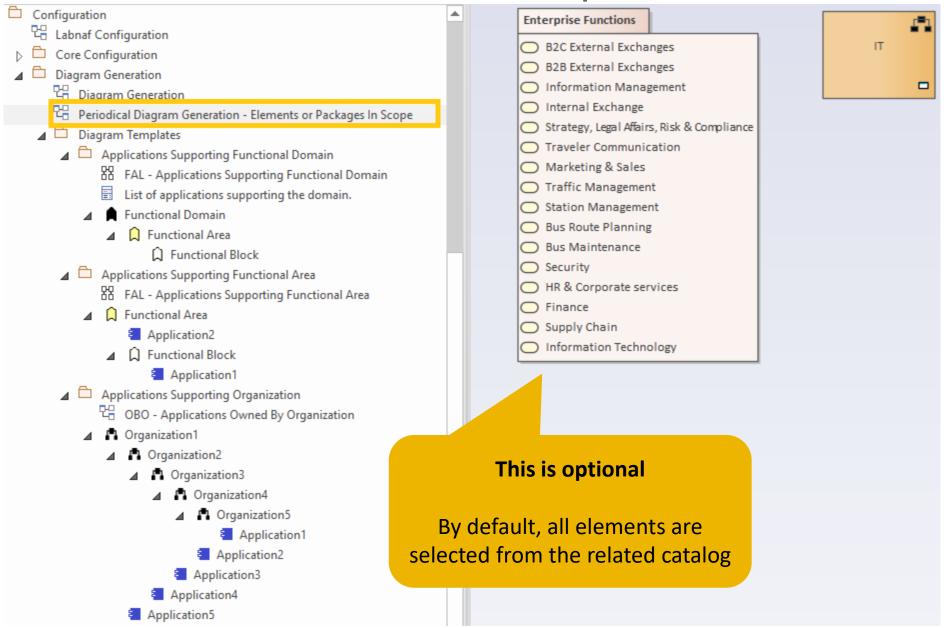
Enterprise Function Taxonomy & Applications Supporting Level 1



Applications managed by organizations



Generate Diagrams (optional) Items in Scope for Generation



Generate Diagrams (cont.)

To start diagram generation:

```
Command: GenerateDiagrams

Description: Generate diagrams in a model repository.

Usage : lnps GenerateDiagrams [arguments]

Arguments:

RepoPathName: Path name (EAP file) of the repository where the diagrams must be generated.

GenerationScopeDiagramGUID: A diagram containing organizations elements and/or a package of enterprise functions for which diagram generation is required.
```

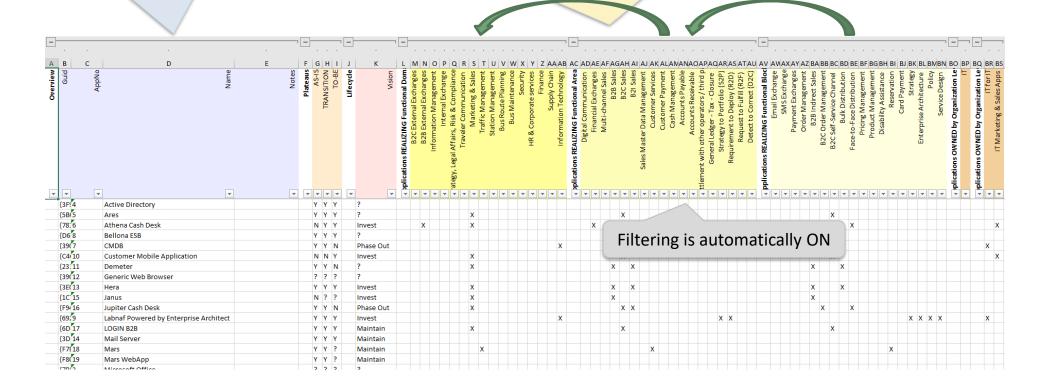
GenerateTabularReports

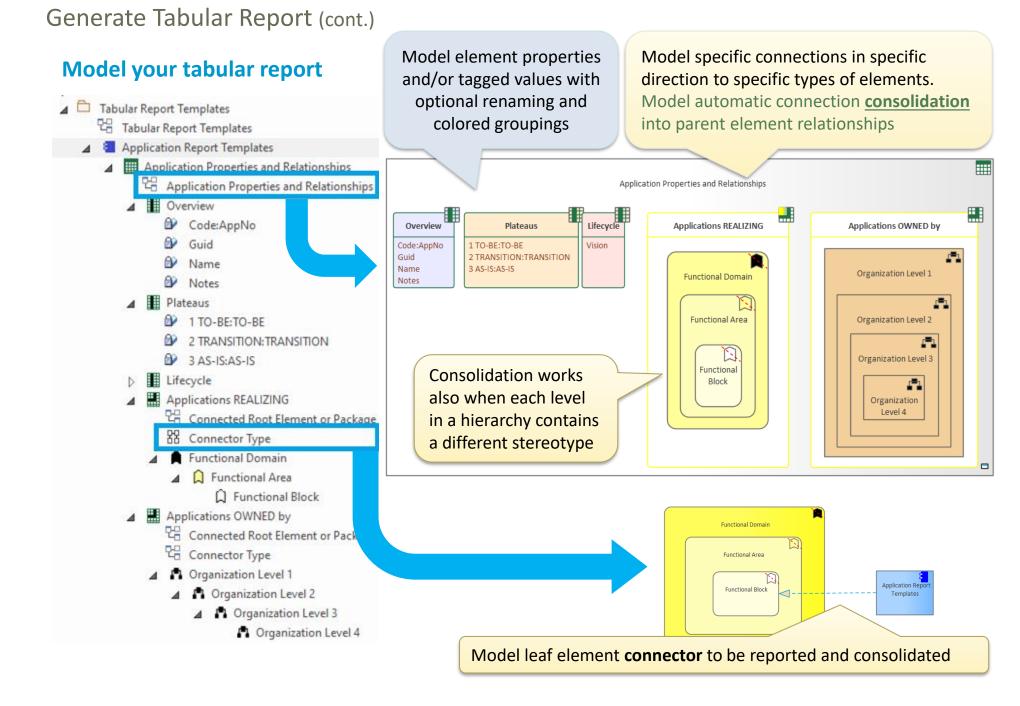
Sample Result

Reported collection of elements (e.g. applications) selected following any kind of rule

Element properties and/or tagged values with optional renaming and colored groupings

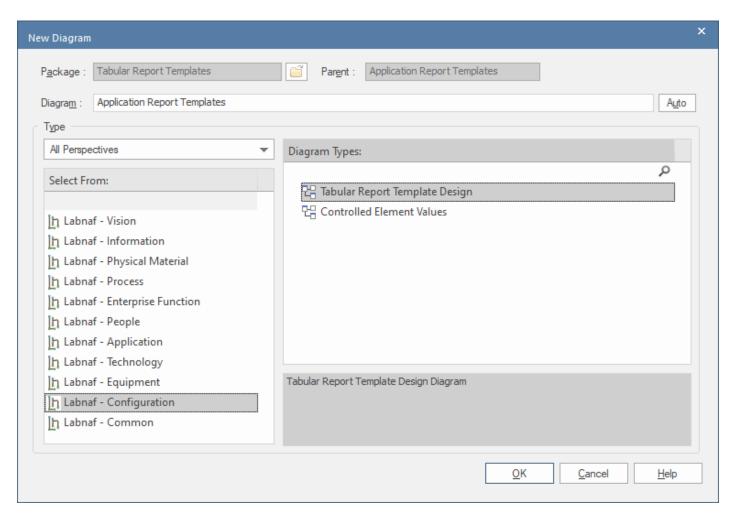
Specific connections in specific direction to specific types of elements. Automatic connection **consolidation** into parent element relationships.

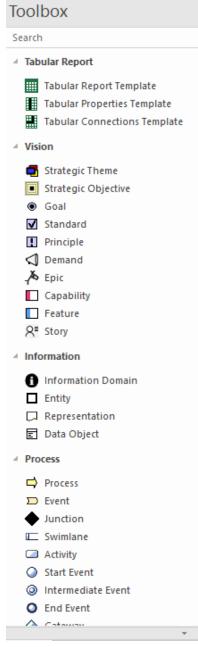




Model your tabular report

A tabular report can contain tagged values, properties and connections to any kind of element.

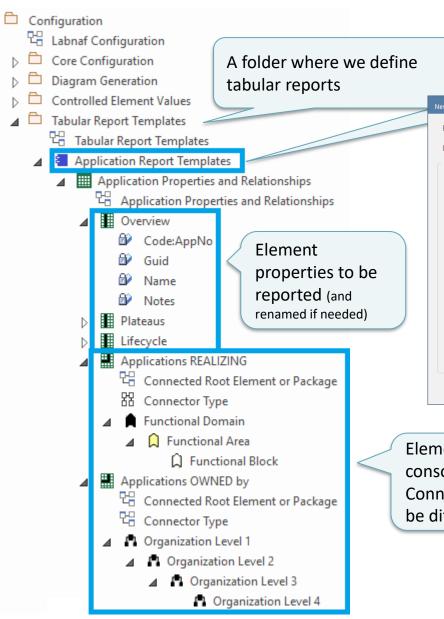




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Generate Tabular Report (cont.)

Model your tabular report



An element prototype for grouping tabular reports So we can see that the embedded tabular report definitions are for elements of that specific type and stereotype.

Parent : Application Report Templates

💾 Tabular Report Template Design

Toolbox

■ Tabular Report

III Tabular Report Template

Cancel

Tabular Properties Template

Tabular Connections Template

<u>H</u>elp

34

Search

<u>0</u>K

먼 Controlled Element Values

Tabular Report Template Design Diagram

▼ Diagram Types:

Auto

Q

Element connections to be reported and consolidated at several levels of detail.

Connected element types and stereotypes can be different at each level.

Tabular Report Templates

All Perspectives

h Labnaf - Vision

h Labnaf - Process

| Labnaf - Application

Labnaf - Technology

力 Labnaf - Equipment

ի Labnaf - Configuration ի Labnaf - Common

Labnaf - Information

h Labnaf - Enterprise Function

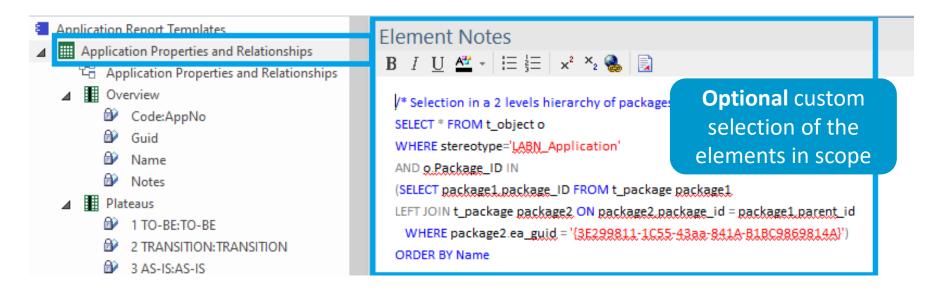
Select From:

Application Report Templates

Reported collection of elements (e.g. applications) selected following any kind of rule

Define the set of elements to be reported

By default, all elements with the same stereotype "LABN_xxx" as the element prototype are selected from the related catalog with stereotype "LNCAT xxx".



That SQL statements selects the elements that need to be included in the report.

With professional database engines, that SELECT statement can reach a level of sophistication that goes way beyond users' requirements.

Access databases, on the other hand, have some limitations, but it is still usually sufficient to implement most use cases. Access databases are anyway not designed for running on professional database servers.

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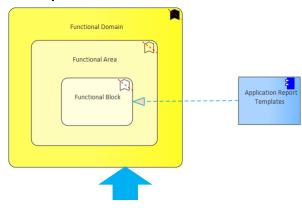
Generate Tabular Report (cont.)

If you want to limit the scope of the reported connections...

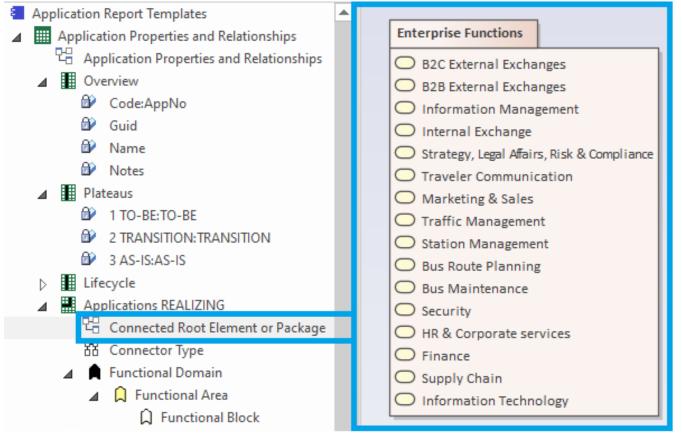
Put on a diagram the set of root elements to be selected at the other connection end.

The diagram can contain packages and elements.

Enterprise Function Levels



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Generate Tabular Report (cont.)

To start tabular report generation:

```
Command: GenerateTabularReports

Description: Generate spreadsheets from a model repository based on configuration stored in that same repository.

Usage: lnps GenerateTabularReports [arguments]

Arguments:

SourceRepoPathName: Path name of the source model repository (EAP file).

OutputDirectoryPath: Directory path name where the spreadsheets must be generated. The name of each spreadsheet file is the name of the template report.

[ElementPrototypeName]: The name of a specific element prototype name for which all embedded tabular report templates must be applied.

[TabularReportTemplateName]: The name of a specific tabular report template to be applied.
```

By default, all report templates will be applied.

But you can also be specific.

When a report template name ends with '.CSV' a CSV file is generated instead of Excel.

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GenerateDoc (Word, RTF, PDF)

To start document generation:

```
Command: GenerateDoc

Description: Generate a Word, RTF or PDF document from a model repository package.

Usage : lnps GenerateDoc [arguments]

Arguments:

SourceRepoPathName: Path name of the source model repository (EAP file).

OutputPath: Path name of the document file to be generated.

The file extension specified will determine the format of the generated document - for example, RTF, PDF

PackageGuid: The GUID of the package or master document to run the report on.

TemplateName: The document report template to use; if the PackageGUID has a stereotype of MasterDocume nt, the template is not required.
```

GenerateHtml

To start HTML generation:

```
Command: GenerateHTML

Description: Generate an HTML web site from a model repository package.

Usage : lnps GenerateHTML [arguments]

Arguments:

SourceRepoPathName: Path name of the source model repository (EAP file).

OutputPath: The path of the file system folder where the HTML pages must be generated.

SourcePackageGUID: The GUID of the repository package for which HTML must be generated.

[WebSiteTemplateName]: The optional name of a web style template used for HTML generation (default=Sparx EA default template).
```

On the web site, you can email a stable link to the current page by clicking on the little envelope.



AutoConnectorsGenerate

To start connector generation:

```
Command: AutoConnectorsGenerate

Description: Generate connectors for child elements following defined element stereotype hierarchies.

Usage: Inps AutoConnectorsGenerate [arguments]

Arguments:

SourceRepoPathName: Path name of the source repository (EAP file).
```

The generated connectors are aggregations.

Benefits of generated connectors

- Normalizes the way elements are related in a repository i.e. based on connectors
- Eases Prolaborate chart definitions: Prolaborate relies on connectors not on hierarchies

Sample Hierarchies for which aggregations are generated

- Functional Domain.Functional Area.Functional Block.Functional Category.Functional Service
- Application Platform.Application Group.Application.ApplicationComponent or Data Store
- Organization.Organization.Organization...

AutoConnectorsDelete

To start deletion of generated connectors:

```
Command: AutoConnectorsDelete

Description: Delete generated connectors for child elements following defined element stereotype hierarchies.

Usage: lnps AutoConnectorsDelete [arguments]

Arguments:

SourceRepoPathName: Path name of the source repository (EAP file).
```

The generated connectors are aggregations.

BackupToAccessFile

To start the backup to an Access file:

```
Command: BackupToAccessFile

Description: Backup a DBMS or Access repository to an Access Repository.

Usage : lnps BackupToAccessFile [arguments]

Arguments:

SourceRepoPathName: Path name of the source repository (EAP file).

DestEapPathName: Path name of the destination Access repository (EAP file).

LogFilePath: Path name of the log file name.
```

SourceRepoPathName (EAP) must point to a DBMS repository

ScheduleCommand

Alternatives to « ScheduleCommand » (If you prefer):

- Windows Task Scheduler (https://docs.microsoft.com/enus/dynamics365/business-central/dev-itpro/developer/devenv-task-scheduler)
- Your company standard scheduler

To schedule a **nightly** command **starting at midnight**:

InitialStartTime = 00:00:00 Don't schedule 2 commands starting exactly at the same time

• PeriodAsMinutes = 1440 There are 1440 minutes in one day

To start the schedular:

```
Command: ScheduleCommand

Description: Schedule a task to run periodically starting at a specific time.

Usage : Inps ScheduleCommand [arguments]

Arguments:

CommandPathName: Path name of the command that needs to be periodically started (.cmd or .bat).

InitialStartTime: The initial start time for the task (HH:MM:SS).

[PeriodAsMinutes]: The length of a period expressed in minutes.
```

Final Recommendation in case you use "ScheduleCommand"

LN SCHEDULED
Commands
Input
OUTPUT

- Use the preconfigured batches and settings

```
SetTimes.cmd
    REM -- SINGLE START TIME --
    Set StartTime AllSingleSequence=00:00:00
    REM -- SPECIFIC START TIME FOR EACH TASK --
    Set StartTime Cleanup BackupToAccesFile=22:00:00
    Set StartTime Cleanup GenerateHTML=22:00:05
    Set StartTime ImportTabularReport=22:30:00
    Set StartTime CalculateTaggedValues=23:00:00
    Set StartTime GenerateDiagrams=23:30:00
    Set StartTime BackupToAccessFile=00:00:00
    Set StartTime Validate=01:00:00
17
    Set StartTime GenerateTabularReports=02:00:00
    Set StartTime GenerateDoc=02:30:00
    Set StartTime GenerateHTML=03:00:00
    set SCHEDULED MINUTES UNTIL RESTART=1440
```

Name Commands Input ScheduleAllMultipleThreads.cmd ScheduleAllSingleSequence.cmd Command Prompt Schedule_BackupToAccesFile.cmd Schedule_CalculateTaggedValues.cmd Schedule_Cleanup_BackupToAccessFile.cmd Schedule Cleanup GenerateHTML.cmd Schedule_GenerateDiagrams.cmd uses Schedule GenerateDoc.cmd Schedule_GenerateHTML.cmd Schedule GenerateTabularReports.cmd Schedule_ImportTabularReport.cmd Schedule Validate.cmd ScheduleSequence.cmd SetEnvVars.cmd SetTimes.cmd

- Take computer reboots into account

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Labnaf PowerShell Commands

1. Overview

2. Strategy and Architecture Operations

3. Systems Integrations and Content Refactoring

4. Command Compatibility Matrix

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Labnaf PowerShell commands for Systems integrations and content refactoring

- ClonePackage
- CreatePackage
- ExportToXmi
- ImportConnections
- ImportFromXmi
- ImportTabularReport
- MoveElementsToCalculatedParent
- MoveElementsToPackage
- MovePackagesToPackage
- Renameltem
- ScheduleCommand
- SetDiagramProperty
- SqlExportToCsv

Detailed information in the

Labnaf PowerShell Reference Guide

Latest version:

https://www.labnaf.one/EndUserMaterial/Labnaf PowerShell/Labnaf%20PowerShell%20-%20Reference%20Guide.pdf

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Labnaf PowerShell Command Compatibility Matrix

| Power Shell Commands | Sql Server | Pro Cloud Server | Access |
|------------------------------------|------------|------------------|--------|
| AutoConnectorsDelete | Х | X | -> UI |
| AutoConnectorsGenerate | X | | -> UI |
| BackupToAccessFile | X | X | |
| CalculateTaggedValues | X | X | |
| ClonePackage | X | X | X |
| CreatePackage | X | X | X |
| ExportToXmi | X | X | X |
| GenerateDiagrams | X | X | X |
| GenerateDoc | X | | |
| GenerateHTML | X | | |
| Generate Tabular Reports | X | X | X |
| ImportConnections | X | X | |
| ImportFromXmi | X | X | Х |
| lmportTabularReport | X | | -> UI |
| Move Elements To Calculated Parent | X | X | X |
| MoveElementsToPackage | X | X | X |
| MovePackagesToPackage | X | X | X |
| RenameItem | X | X | X |
| ScheduleCommand | X | X | X |
| SetDiagramProperty | X | X | Χ |
| SqlExportToCsv | X | X | Х |
| Validate | X | X | X |

Legend

-> UI : Use the Labnaf AddIn i.e. the user interface