

Productivity Tools

Tabular Report Generation

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A. Generating Tabular Reports

B. Creating Tabular Report Templates

- 1. Scenarios for Starting a New Tabular Report Template
 - a. Custom Report
 - b. Clone & Edit
 - c. Model the Structure
- 2. Collection of Elements to be Reported (scope)
- 3. Reported Element Properties
- 4. Reported Connections
- 5. Report Format
- 6. Summary

Generated Tabular Reports can be Excel or CSV

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Scheduled or On demand

Reports generation can be performed... either On Demand **Scheduled Periodically** or

Predefined Reports	Custom Report
ypes of element having report templates	Select an element type Properties @ Use exection Current Report
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Report selected elements/packages View document(s) on completion	Peadare Functional Res Functional Block Generate Reports Progress

You can use predefined templates, or create custom reports that you can save as templates

Labnaf PowerShell Command: GenerateTabularReports

Usage : LNPS GenerateTabularReports [arguments]

Arguments:

- SourceRepoPathName
- OutputDirectoryPath .
- [ElementPrototype] .
- [TabularReportTemplateName]

To generate a CSV, add a '.CSV' extension to the tabular report template name. The name of the CSV file can also define the CSV character encoding and column delimiter. For further information, see 'Inbound/Outbound Content Formatting' on the Guidance Web Site

Scheduling

You can use either the built-in Labnaf scheduler, or the Windows task scheduler, or your own scheduler.

If you want a report to be ignored by the Labnaf PowerShell, then add the prefix "--" to its template name. The report can then be generated only on demand/using the user interface.

- --Application Unavailability Statistics (On Demand Only)
- III Applications Using Sensitive Data

Using Predefined Report Templates

Select the Templates

- Select an element type that has defined report templates
- Select tabular report templates

Select the Output Location and Format

- Select an output folder (typically only once).
- Select an output format (Excel or CSV) i.e. not necessarily using the format defined by the templates.

Define the Scope

Options for defining a selection of elements (scope) to be reported

- Elements or packages selected in the project browser or in the active diagram
- Elements and packages present in a "scope" diagram that belongs to the template
- Elements selected by a SQL select defined in the template note
- All elements in the catalog (default)

If multiple scopes have been defined, then the above sequence corresponds to priorities



Generate Report(s)

- Generate reports from the selected templates.
- View the generated reports, or just the last one.
- Open the output folder to see all of generated reports.
- Open the "Log" folder that is located just underneath.
- Locate a selected template in the repository in case you want to make some changes, or if you want to clone and adapt it.

Using Predefined Report Templates (cont.)

You can also generate a report by selecting a template from the project browser or from a diagram

 Tabular Report Templates Working area Working area ELP Tabular Report Element Prototypes ELP Tabular Report Templates Role Report Templates Role Report Templates Information Report Templates 					
> 🛄 360 Degree Sensitive Data Usage	Specialize	►	Scripts		
 Principle Report Templates Standard Report Templates 	Collaborate	•	Labnaf	•	Open Labnaf Contextual Guidance
 Application Report Templates 	Properties		Microsoft Visio	•	Add Legends To Current Dlagram
> •••• {}	Inspector				Calculate Values
Application Report Templates Examples	Features	•			Generate Application Portfolio Diagram
Application Catalog with Relationships (Add	•			Delete ALL Generated Application Portfolio Diagrams
Application Catalog with Relationships (Generate Charts
Application List[CP=utf-8].CSV	Move	•			Generate Tabular Report
Application List[CP=Windows-1252;DEL	Сору				Import Tabular Report
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Applications Using Sensitive Data	Find in all Diagrams	Ctrl+U			Merge Elements
System Software Report Templates Target Capability Report Templates	Locate in Current Diagram				Instant Metadata Manager
 Process Report Templates 	View Audit History				Instant Metamodel Manager
> E Feature Report Templates	Delete '360 Degree Sensitive Data Usage'				About Labnaf

Generating Custom Reports

Define the Custom Report Content

- Select an element type
- Select properties
- Easily reorder properties

Select the Output Location and Format

- Select an output folder (typically only once).
- Select an output format (Excel or CSV) i.e. not necessarily using the format defined by the templates.

Define the Scope

Define a selection of elements (scope) to be generated (the sequence below corresponds to priorities)

- for elements or packages selected in the project browser (if any),
- or for elements or packages selected in the active diagram (if any),
- or for the entire catalog (default).



Generate, Edit, Import the Custom Report

- Generate and open Excel or CSV, edit values, and import the updates values on the fly if you wish.
- Save the custom report as a template
- Locate and edit the template content and colors, or change the scope of elements to be processed
- Open the output folder to see all the generated reports.
- Open the "Log" folder that is located just underneath.
- Locate a selected template in the repository in case you want to make some changes, or if you want to clone and adapt it.

Scheduling Tabular Reports Generation



https://www.labnaf.one/EndUserMaterial/Labnaf_PowerShell/

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We will use the creation of an **Application Report Template**

as an example



Predefined Report Templates: What can be configured?



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3 alternative scenarios for Starting a New Tabular Report Template



Save a custom report as a template



Clone & C Edit

Clone and adapt an existing template



Model the Model the tabular report structure



Then complete/adapt the report template...

- Select the collection of elements to be reported (default = entire catalog)
- Define the properties to be reported
- Define the connections/relationships to be reported

h

Application Report

Templates

and Relationships

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Creating a Template using the « Custom Reports » option

- 1. Create a custom report as described earlier in « Generating Custom Reports » in the present document.
- 2. Name the report and click « Save as Template »
- 3. Locate and edit the template content and colors, or change the scope of elements to be processed as described further in the present document

h Tabular Report Generation	- 🗆 X
○ Predefined Reports	O Custom Report
Predefined Reports Types of element having report temptates Application As A Servece Application Function Capability Cost Type Data Store Demand Destribution Network Entity Feature Individual Principie Process Role Standard System Software Tabular Report Temptates Locate Temptate Application Catalog with Relationships (IMPLICIT SCOPE - A dements in catalog) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application Catalog with Relationships (IMPLICIT SCOPE - SQL SELECT statement) Application List(PCP-HI PGV Application List(PCP-HI PG Application List(PCP-HI PG A	Custom Report Selectan element type Access Properties (I) L&R. Application Application Component Application Component Application Report Custom Report Report Name Save As Template Custom As A Service Application Component Custom Report Report Name Custom As A Service Application Report Custom Report Report Name Custom As A Service Capability Construint Contrait Contrait Contrait Contrait Contrait Custom Cain Deployment Sature Custom Cain Custom Cain
Applications Using Sensitive Data Provide the sensitive Data Provide the sensitive data Output Format Output Format Output Format Output format Output format Output format Output format Output format Output format Output format Output format Output format Output format Output format	Epic ISN_Proposition Equipment ISN_Proposition Equipment ISN_Proposition Equipment ITC It ItC Footback ItC It ItC Footback ItC ItC ItC

Custom

Report

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Clone & Edit

Cloning and adapting an existing template



• Copy an existing application report template



- Paste into the Tabular Report Templates Folder (must be a folder/package)
- Rename the new Tabular Report Template
- Move it into the appropriate element prototype
 - Add/remove the content you need.

A. Generating Tabular Reports

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Define the type of element to be reported...

ign

- If it does not exist yet, create a diagram of type "Element Prototypes"
- Name it, for example, "ELP Tabular Report Templates"

New Diagram	
Package : Tabular Report Templates	Ĩ
Diagram : Tabular Report Templates	
Туре	
Labnaf 👻	Diagram Types:
Select From: []h Labnaf - Vision []h Labnaf - Information []h Labnaf - Physical Material []h Labnaf - Process []h Labnaf - Enterprise Function []h Labnaf - People []h Labnaf - Application	문 Element Prototypes 만 Tabular Report Template Des 만 Controlled Element Values
止 Labnaf - Technology	
႕ Labnaf - Configuration	
իլ Labnaf - Common	



... using an element prototype

- Select an element in the toolbox You need only one element prototype of each type. But you can have more, for example, to further classify your report templates.
- Name the element prototype for example "Application Report Templates"
 - Tabular Report Templates
 ELP Tabular Report Templates
 - 🔺 📒 Application Report Templates



Application Service

This is an **element protype** that will group all the **application** report templates (Excel and CSV).

By default, the Labnaf PowerShell periodically generates all reports for all element prototypes contained in the "Tabular Report Templates" folder. But you can be selective as well.

Add a diagram for creating your Application Report Templates



Right click on the element prototype and select "Add Diagram"

Under "Labnaf Configuration", select "Tabular Report Template Design"





Add a report template from the toolbox

... and name it, for example, "Application Properties and Relationships"



Complete/Adapt the New Tabular Report Template...





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Scope of Reported Elements (rows)

	Selecting the
{5B(5	Ares
{78:6	Athena Cash Desk
{D6 8	Bellona ESB
{39(7	Collection of Elements
{C4(10	
{23:11	Demeter
{39(12	Generic Web Browser
{3E(13	Hera
{1C 15	Janus
{F9416	Jupiter Cash Desk to be Reported
{6929	Labnaf Powered by Enterprise Architect
{6D 17	LOGIN B2B
{3D 14	Mail Server
{F7[18	Mars
{F8(19	Mars WebApp





Defining a selection of elements (scope) to be reported

Options that can be defined in the template

- 1. Elements and packages present in a "scope" diagram that belongs to the template
- 2. Elements selected by some SQL select defined in the template
- 3. All elements in the catalog (default)

If multiple scopes have been defined, then the above sequence corresponds to priorities

Additional option when the report is generated from the user interface

Report only elements or packages selected in the project browser or in the active diagram

When selected, this option overrides all the other ones.

Creating a "scope" diagram defining the collection of element to be reported

Package : Tabular Report Templates

Parent : Applications Using Sensitive Data (EXPL

 Select a tabular rep and add a « Scope » 	ort template diagram		Type Labnaf Select From:	=	Diagram Types:	Q
 Application Report Templates Application Report Templates Examples Application Catalog with Relationships (IMPLICIT SCOPE - All elements Application Catalog with Relationships (EXPLICIT SCOPE - SQL SELECT : Application List[CP=windows-1252;DELIM=Semicolon].CSV Application Unavailability Statistics (On Demand Only) Applications Using Sensitive Data (EXPLICIT SCOPE - Elements and Pace Collaborate Collaborate Properties Inspector Features Add Move Copy System Fraget Find in all Diagrams Locate in Current Diagram Locate in Current Diagram User Securit Delete 'Applications Using Sensitive Data (EXPLICIT SCOPE - Elements 	in catalog) statement) kages in a Diagram) Ctrl+U Ctrl+U ments and Packages in a Diagram)'	 Port Composite Select Composite Activity Interaction State Machine Construction Diag Add Diagram Add Custom Refer 	Labrial - Friysical Material h Labrial - Process h Labrial - People h Labrial - People h Labrial - Application h Labrial - Technology h Labrial - Equipment h Labrial - Generic h Labrial - Configuration h Labrial - Common ↓ Diagram		Controlled Element Values Controlled Element Values Chart Generators Time Series Chart Template Design Sope Diagram OK Cancel	
Validation Test Data	_	Create Link				

Populate the Scope diagram

Add the elements and packages to be reported to the scope diagram => the collected elements are

- Elements and packages of elements (including sub-elements) in the scope diagram
- that have the same stereotype as the parent element prototype



Overview: Guid Elements selected by the Information Sec Confider Ava scope diagram in the generated report Athena Order Management CMDB **Customer Mobile Application** Labnaf Powered by Sparx Systems Platform LOGIN Mail Server Mars Mars WebApp **Microsoft Office** Minerva Card Payment MyCo Neptune Poseidon Service Now Venus Cash Desk Vesta Web Vulcan Communication BE Warehouse Plus Zeus CCE o o Zeus Convergent Mediation Zeus Mobile Synchronization Zeus MRC Zeus Pricing Zeus Sales Records Management

Ιh

1. Scope

Diagram

Custom **SQL** for selecting the **collection of elements** to be reported.

By default, all elements with the same stereotype as the element prototype are selected.

Application Report Templates

Application Report Templates

Application Properties and Relationships

The "Notes" property of the Tabular Report Template can contain some SQL SELECT statement. 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.

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

 $|\rangle|$

2. Scope As SQL Select

Sample SQL Statements

/* Selection in a 2 levels hierarchy of packages */
SELECT * FROM t_object o
WHERE stereotype='LABN_Application'
AND o.Package_ID IN
(SELECT package1.package_ID FROM t_package package1
LEFT JOIN t_package package2 ON package2.package_id = package1.parent_id
WHERE package2.ea_guid = '#uMyVariableContainingAPackageGUID#')
ORDER BY Name

/* selection in a set of packages
SELECT * FROM t_object WHERE stereotype ='LABN_Application' AND package_ID=550
UNION
SELECT * FROM t_object WHERE stereotype ='LABN_Application' AND package_ID=1126
*/

/* Ordered selection in a set of packages (Access only)
SELECT * FROM (
SELECT * FROM t_object WHERE stereotype ='LABN_Application' AND package_ID=550
UNION
SELECT * FROM t_object WHERE stereotype ='LABN_Application' AND package_ID=1126
)
ORDER BY NAME

*/

Statement can include comments

/* my comment */

These SQL statements can include variables

Variables defined in the core configuration can be used in SQL statements. You can add your own variables.

User-define variable must start with the letter 'u'

Example: A user-defined variable containing the GUID of a package:



Usage of the user-defined variable in a SQL statement:

```
select * from t_object o inner
join t_package p on o.package_id = p.package_id
where o.ParentID = 0 and o.stereotype like 'LABN_%'
and p.ea_guid = '#uPkgFuncDomainsSpecificToMySubsidiary#'
ORDER BY o.Name
```

2. Scope As

SQL Select

3. Scope As Catalog (Default)

Default Scope = All elements in the catalog

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



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B. Creating Tabular Report Templates

- 1. Scenarios for Starting a New Tabular Report Template
 - a. Custom Report
 - b. Clone & Edit
 - c. Model the Structure
- 2. Collection of Elements to be Reported (scope)
- 3. Reported Element Properties
- 4. Reported Connections
- 5. Report Format
- 6. Summary



Reporting Element

Properties and Tagged Values





www.labnaf.one

Add a diagram to enter properties and connections to the report template

Application Report Templates

Application Properties

Specialize Collaborate

Properties

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Right click on the report template and select "New Child Diagram > Composite Structure Diagram"



=> A new Tabular Report Template Design diagram has been created

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Composite Structure Diagram

Select Composite Diagram

Add a "**Tabular Properties Template**" to the new Tabular Report Template Design diagram

.... and name if for example "Overview"



Add Properties

- Select the Tabular Properties Template in the diagram
- Press F9 to open the "Features / Attributes" window
- Enter the desired property and/or tagged value **names**





Adding more groups of properties and/or tagged values



Generate

Group Ordering

The sequence of elements being added in the diagram defines the sequence in the report



Auto-coloring cells following their value

Numeric and date cells are formatted according to the recognized data type.

Numeric cells can be automatically colored by setting parameters in the attribute's Initial Value.

Parameters are separated by a semi-column (";").

Recognized parameters are (in any order):

- Autocolor => numbers will be colored following a green to red scale where the lowest value is best, this being colored in green
- HighestIsBest => Coloring is reversed i.e. numbers will be colored following a green to red scale where the highest value is best, this being colored in green



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Scores:	TCO	Doc_Amount	Nb_Supported_FBs	Nb_Components	Nb_In_and_Out_Flows	Pct_Unavailable	Nb Users
-		-				-	
-	120	5	0	0	1	0	-
	852	4	2	0	0	1	
	430	2	1	0	0	0	100
	1250	38	4	5	3	1	50
	69	0	0	0	0	0	50
-	20	4	2	0	0	2	120
	45	6	3	0	0	5	120
	258	50	4	4	6	5	100
		5	0	0	1		40
	5	20	1	6	0	3	50
	545	4	2	0	0	0	6
	62	3	0	1	0	0	100
	254	4	2	0	0	0	8
	56	2	1	0	0		23
	455	2	1	0	0	0	62
		10	0	0	2		1
	66	6	3	0	0	0	100
	2	136	4	11	19	0	8
	5	2	1	0	0	0	50
	9	13	0	1	2	0	1
	78	2	1	0	0	0	50
	65	0	0	0	0	1	100
_	49	3	0	1	0	0	100
	867	15	1	1	2	0	1
	240	0	0	0	0	0	100
	510	2	1	0	0	2	6
_	95	0	0	0	0	1	50
_		10	0	0	2	_	1
_	1503	17	1	0	3	0	6.
_	57	2	1	0	0	1	50
	1564	25	2	2	3	1	-50
	4856	0	0	0	0		
_	56	3	0	1	0	4	1
_	173	0	0	0	0	1	50
_	674	0	0	0	0	0	6.
	901	0	0	0	0	0	50
_	2412	12	1	0	2	1	50
	55	18	2	3	1	0	100

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Reporting

Element

Connections/Relationships



<u>Example</u>: Report the functional blocks, functional areas and functional domains **realized by** the applications



Add a "Tabular Connections Template" to the new Tabular Report Template Design diagram

.... and name it "Applications REALIZING"





To consolidate ...



... or not to consolidate connections



Define the type of connection to be reported

Add a diagram of type "**Element Prototypes**" under the new tabular connection template and name it, for example, "Connection Type"

۲ Application Report Templates 먺 Application Report Templates Application Properties and Relationships C Application Properties and Relationships Overview \triangleright Value \geq Scores \triangleright Plateaus \geq Lifecycle Þ Applications REALIZING Connector Type

Define the type of connection to be reported

- Add the element prototype to the diagram
- In the browser window, create a hierarchy of elements for which explicit and implicit connections should be reported
- Connect the element prototype to the lowest level in the hierarchy



Resulting Connection Group Name



Colors of Connection Groupings



In the output tabular reports...

Background element colors will be assigned to column groups.

If an element appears in more that one diagram the color is selected from the first diagram found.

If such diagram exists under the Tabular Report element then this diagram takes precedence.

The color cannot be the default element color (otherwise in will be blank).

Scope of Connected Elements (columns)



Collection of

Connected Elements



Selecting <u>connected</u> elements to be reported Implicit (default) Selection



By default, Labnaf selects all elements with that same stereotype in the related catalog.

So, in this example, it will collect all elements having a stereotype 'LABN_FunctionalDomain' in all packages having a stereotype 'LNCAT_FunctionalDomain'.

Selecting <u>connected</u> elements to be reported **Explicit Selection**

- Add a diagram of any type under the new tabular connection template and name it, for example, "Connected Root Element or Package".
- Add any number of packages and/or (connected) elements to be reported. The elements in the packages or the explicit elements should be at the top level in the connected elements hierarchy





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Defining the Report Format

Default report **format** is **Excel**.

To generate a **CSV** report, add a ".CSV"

extension to the report template name.

- The report format is defined in the report template name
- The format is therefore also visible in the generated report name (same name as the template) => by looking at a report name, you can immediately determine its format
- Application Report Templates
- > 000 {} 먾 Application Report Templates Examples
- Application Catalog with Relationships (IMPLICIT SCOPE All elements in catalog)
- Application Catalog with Relationships (EXPLICIT SCOPE SQL SELECT statement)
- Application List[CP=utf-8].CSV < \triangleright
- Application List[CP=Windows-1252;DELIM=Semicolon].CSV \triangleright
- --Application Unavailability Statistics (On Demand Only) \triangleright
- Applications Using Sensitive Data

Inbound/outbound CSV character encoding and column delimiters can be specified in the tabular report name itself.

For further information, see « Inbound/Outbound Content Formatting » on the Guidance web site.

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Tabular Report Summary

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

Toolbox

Search Tabular Report Tabular Report Template Tabular Properties Template Tabular Connections Template Vision Strategic Theme Strategic Objective Goal Standard Principle Demand A Epic Capability Feature R[≡] Story Information f Information Domain Entity Representation Data Object Process Process D Event Junction Swimlane Activity Start Event Intermediate Event End Event A Catalana

New Diagram Tabular Report Templates Applications REALIZING Parent : P<u>a</u>ckage Applications REALIZING Diagram Туре Labnaf Diagram Types: Ŧ ۰ Select From: 면 Element Prototypes ρ 💾 Tabular Report Template Design h Labnaf - Vision 만금 Controlled Element Values h Labnaf - Information h Labnaf - Physical Material h Labnaf - Process h Labnaf - Enterprise Function h Labnaf - People h Labnaf - Application h Labnaf - Technology h Labnaf - Equipment Tabular Report Template Design Diagram h Labnaf - Configuration h Labnaf - Common -

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