Report Templates

29.12.2009

1 Introduction

Report templates generate RTF reports using a template written in RTF, and merging the text with information provided by PILAR.

The template processor copies most of the text from the template into the report without modification. However, there may be placeholders to call PILAR for data.

The placeholders have the following syntax

<pilar> command(s) </pilar>

The format is XML, with a number of tags, to describe the action, and zero or more xml attributes.

attr

means

attr="value"

When the attribute is optional, it is presented within brackets

[attr]

and it means that it may be omitted in the placeholder, and PILAR will use a default value.

Most frequently, the attribute value comes between double quotes; but sometimes word is nor very friendly with those characters, and tries to replace with left- and right- double quotes. In those cases, you may use whatever character you wish as attribute delimiter. For instance

attr=$value$

attr=%value%

attr=:value:

Please, avoid the following characters that are heavily used by RTF to encode formatting:

{ } \

and these ones, open and close quotes, that use to have special typographic variants:

“ ” " ‘ ’ ′ `

2 Text substitution

<define kw > value </define>

It associates the "kw" with the "value". In the <replace> command, the "kw" will be replaced.

Example: <pilar><define kw=”WS”>William Shakespeare</define></pilar>

<replace kw />

Prints the value associated to the "kw".

Example: <pilar><replace kw=”WS” /></pilar>

<date [format] />

Prints current date.

If no format is specified, the default is "day.month.year".

You may specify a format as in

http://java.sun.com/javase/6/docs/api/java/util/Formatter.html

PILAR will pass a single argument that is the current date.

pattern	output
`<pilar><date /></pilar>`	4.12.2009
`<pilar><date format=”%tc”/></pilar>`	Fri Dec 04 16:34:01 CET 2009
`<pilar><date format=”%tD”/></pilar>`	12/04/09
`<pilar><date format=”%tY/%<tm/%<td”/></pilar>`	2009/12/04

3 Library information

<dimensions.list />

Prints the list of dimensions that are not OFF.

<maturity.list />

Prints the list of maturity levels.

4 Assets

<assets.group name [asset] [family] [layer] [domain] />

attribute	contents	default
name	name of the group	n.a.
asset	list of asset codes, or names of groups of assets	all the assets
family	list of class codes	all the classes
layer	list of layer codes	all the layers
domain	list of security domain codes	all the security domains

Defines a group of assets, and it may be later identified by the given name.

The attributes filter the assets that match one of the families (if any) and one of the layers (if any), and one of the domains (if any).

Examples:

- family="HW"
  all the assets of class HW
- family="HW" domain="base"
  all the assets of class HW in the base domain

- asset="SVR_01, SVR_02"
  those two assets

<assets.list [asset] [family] [layer] [domain] />

attribute	contents	default
asset	list of asset codes, or names of groups of assets	all the assets
family	list of class codes	all the classes
layer	list of layer codes	all the layers
domain	list of security domain codes	all the security domains

Prints the selected assets. It prints one line per asset: [code] name.

The attributes filter the assets that match one of the families (if any) and one of the layers (if any), and one of the domains (if any).

<assets.description [asset] [family] [layer] [domain] />

attribute	contents	default
asset	list of asset codes, or names of groups of assets	all the assets
family	list of class codes	all the classes
layer	list of layer codes	all the layers
domain	list of security domain codes	all the security domains

Prints the description of the selected assets. It prints a few paragraphs, with all the identification of the asset.

The attributes filter the assets that match one of the families (if any) and one of the layers (if any), and one of the domains (if any).

<assets.valuation [asset] [family] [layer] [domain] />

attribute	contents	default
asset	list of asset codes, or names of groups of assets	all the assets
family	list of class codes	all the classes
layer	list of layer codes	all the layers
domain	list of security domain codes	all the security domains

Prints the valuation of the selected assets. It prints the value and the valuation criteria.

The attributes filter the assets that match one of the families (if any) and one of the layers (if any), and one of the domains (if any).

5 Security domains

<domains.list />

Lists the security domains in the model.

<domains.description [domain] />

Lists the description of the security domains.

<domains.valuation [domain] />

Lists the valuation of the domains.

<domains.vulnerability [domain] />

List the vulnerabilities identified per domain.

6 Threats

<threats.group name [threat] />

attribute	contents	default
name	name of the group	n.a.
threat	list of threat codes	all the threats that are not OFF

Defines a group of threats, and it may be later identified by the given name.

"threat" may specify a list of threats, by their codes, separated by commas.

<threats.domain [domain] [dimension] [threat] [freq] [deg] />

attribute	contents	default
domain	list of security domain codes	all the security domains
dimension	list of security dimension codes	all the dimensions that are not OFF
threat	list of threat codes	all the threats that are not OFF
freq	true to list likelihood	true
deg	true to list degradation	true

Dumps a compact table per domain.

There is a row per threat specified (either by threat code, or by threat group name).

If "freq" is true, there is one column showing the likelihood of the threat.

If "deg" is true, there is one column per dimension showing the degradation caused by the threat.

There is one column per dimension showing the risk on the domain caused by this threat.

7 Safeguards

<safeguards.group name [safeguard] />

Defines a group of safeguards, and it may be later identified by the given name.

"safeguard" may specify a list of safeguards, by their codes, separated by commas.

<safeguards.list [safeguard] [domain] [depth] [expertise] />

Lists safeguards that apply to one or more domains, down to a certain depth in the tree, or to a given expertise expansion.

"domain" may specify one or more domains to list. If none specified, PILAR lists all of them.

"depth" specifies a depth of expansion. If there is no "depth", then it expands to the specified "expertise". If there is no expertise, it expands to the model expertise.

Expertise is introduced as a number

0 (for basic), 1 (for medium), 2 (for expert).

<safeguards.valuation [safeguard] [domain] [depth] [expertise] [phase] />

Generates a table with the valuation o the safeguards in the specified phases.

If there is no phase selection, PILAR lists all the phases.

7.1 Attributes

attribute	default	examples
name	n.a.	“physical”
safeguard	all	safeguard=”SW,HW”
exclude	nothing	exclude=”P”
domain	all	domain=”logical_security”
depth	full	depth=”3”
expertise	model expertise	expertise=”0” expertise=”basic”
phase	all	phase=”current, target”

8 Procedures

<procedures.list [domain] />

Prints the list of procedures that apply to one or more domains.

If no domain is specified, all the domains are printed.

<procedures.valuation [procedure] [domain] [phase] />

Prints the value of the procedures that apply to one or more domains.

8.1 Attributes

attribute	default	examples
procedure	all	procedure=”SW,HW”
domain	all	domain=”logical_security”
phase	all	phase=”current, target”

9 Risk

<risk.domain [domain] [dimension] [phase] />

attribute	default	examples
domain	all	domain=”logical_security”
dimension	all	dimension=”I, C”
phase	all	phase=”current, target”

Inserts a table showing the risk in the requested domains, in the requested dimensions, in the requested phases.

Use phase “null” for potential risk.

10 Security profiles (EVL)

<evl.list code [control] [domain] [depth] />

Inserts a list with the controls that apply from the evaluation profile "code", in the requested domains, down to the requested depth.

<evl.valuation code [control] [domain] [depth] [phase] [mode] />

Inserts a table with the valuation of the controls that apply from the evaluation profile "code", in the requested domains, down to the requested depth.

10.1 Attributes

attribute	contents	default
code	code of the security profile	n.a.
control	list of control codes	all
depth	depth to list	all
domain	list of security domains	all
phase	list of phases	all

mode	if “maturity” Pilar prints the maturity level; otherwise, the degree of fulfilment	degree of fulfilment