PIEP – Custom Symbol Manager
User Guide

1. VERSIONING AND CONTROL VALIDATION

VERSIONING HISTORY

Version	AUTHOR	REVISION	Date
1.0	RCAS (CGI)	Creation	29/09/2022

VALIDATION

Version	Name	Date
1.0		

2. DOCUMENT CONTENT

3. SCRIPT DESCRIPTION

3.1 *Objective*

The purpose of the "PI Custom Symbol Manager" is to give a status of the custom symbols in remote PI Vision servers.

The user provide the servers list and the referencial files for each symbols.

The application determine if the symbol is referenced, valid (all files required are installed), and the versioning.

3.2 *Prerequisite*

- Microsoft Powershell (5.0 or later).
- Package PI SMT 2018 or later.

4. USER GUIDE

Copy the folder ExtractionPS in your local machine/server.

4.1 *Prepare the input files*

Edit the file "Input\Server_Path_List.csv".

```
1    "ServerName","PIVisionExtPath"
2    "pi-vision-hq-qal.ep.corp.local","C:\Program Files\PIPC\PIVision\Scripts\app\editor\symbols\ext"
3    "pi-vision-hq-ppr.ep.corp.local","D:\Program Files\PIPC\PIVision\Scripts\app\editor\symbols\ext"
4    "pi-vision-hq.ep.corp.local","D:\Program Files\PIPC\PIVision\Scripts\app\editor\symbols\ext"
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```

Verify that every PI Vision server names and custom symbols root path are listed. Add them if necessary.

Edit the file "Input\Referential_PICustomSymbolFiles.csv".

```
1    Algorithm;Hash;Path;Symbol
2    SHA512;FBCE3CC381BE1EABF47E2C6891823553B050A93650A14709B4254BF4C2F0E335720DB183134A23DD83D8DD96E9B1D144D5CDA4199CA11D715C93D960212FE5FB;sym-amcharts-radar-config.html;amcharts-radar
3    SHA512;2552F6AEFD837BDEF662FAB07E344D3FAA3D0F00CBAF1806F99F706C826E7CFCA9A291DC8C3A8644FCEE1C5BB5C7BB9C076BE5FCA68F14F492147BB9720D8A12;sym-amcharts-radar-template.html;amcharts-radar
4    SHA512;AA4DCB1936C2DFCAB066F2ADA97EEF6E2E97BE1DD7BDBE50268DD59C2E8C313572C17511BA4B960DAD97A997982482D17037C8EF30F3AA00146CBB4C5403DE41;sym-amcharts-radar.js;amcharts-radar
5    SHA512;200D8F4AF33F91E8BE4C08C713CF03F38BB937027120B336FFEAA2A552988DF0C6E069D8A2717511573D1F6461E914BC432015D4B612D43EE9178760FF0540FF;sym-histogram-config.html;histogram
6    SHA512;7A45B538CAF7E420DE6BA6EE237F465F50EC57ECC88F79B703A05D2B01357F4AF52AB4519092C8B9D84BE0BE8607D79C371419E7E84AA64F17FB660EC071F38C;sym-histogram-template.html;histogram
7    SHA512;F0B126451D2B619C7E5D3B53E860657A14C389636C76E5285D3841B28A77A30CCE7D53C246A75690348A488879FB41BFDCE4BAD9E2F54DE77EF57C1E799A4759;sym-histogram.js;histogram
8    SHA512;8EB2187C0655D421A619A1751AAF074AB08536C982D8D8EF75555B3B5D520C65D1E47A8173E13CD2C9BD1D311041A14A46881573E346DFD862BEF071B4E77ADD;sym-sendvalue-config.html;sendvalue
9    SHA512;98ADFD26B57CB8E2EBCC48EDD728628B51BB1EEB1EB739DB530F5B4725F191758AF9C777E9CB1DF91DD15D3DDDFD48B4762790863E7CD8B12507E81D62A17BD8;sym-sendvalue-template.html;sendvalue
10   SHA512;ED4B26E0D1DFF58E679D07E1600018A8CBDEDCC3AD25697AFD8556C9604B44E7A887436091905E1543CF26F263001E08AD9EF83D7EF331200A73F40AED379549;sym-sendvalue.css;sendvalue
```

Verify that every files are listed with their associated symbol.

NB : you can run the script "PIVision-Export-Symbols-Hash.ps1" to generate a new file based on a PI Vision server without the Symbol column. You must specified manually the files for each symbols after that.

4.2 Run the PI Custom Symbol Manager

Run the script **PICustomSymbolsManager.ps1**

It generate a log file in .\logs folder and an analysis file in .\output folder.

Open ".\output\YYYY-MM-DD_PICustomSymbolsAnalysis.csv" file. Example :

It countain a line per symbol per server with the following informations :

- "**PIVisionServer**" – The server name where the current symbol is installed
- "**CustomSymbolPath**" – The root path of the symbol js file
- "**SymbolName**" – The name of the current symbol
- "**IsReferencedSymbol**" – Indicate "true" if the symbol is present in the referential input file, "false" otherwise.
- "**IsValidFiles**" – Indicate "true" if all the files required to make the symbol works are present, "false" otherwise.
- "**IsValidVersion**" – Indicate "true" if the hash code of the files are the same than the referential one, "false" otherwise.
- "**ErrorMsg**" – Indicate the correction to make to this symbol is necessary, or indicate "Symbol OK" if everything is conform.