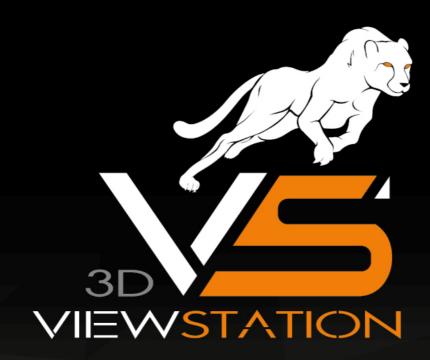
# **Automation Server**

Reference Manual



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# **Commands**



#### **Commands** 1

The KISTERS Automation Server (short: KAS) is a tool for batch-processing files.

Currently, these command are available:

- CONVERT 6<sup>h</sup>
- CONVERT\_AND\_EXECUTE\_XML 7
- CONVERT2D 8
- GENERATE\_SCREENSHOT ® EXPORT\_VIEWS 9
- LOAD\_SETTINGS 10
- LOG 10

**Note**: The order in which these commands have to be given to KAS.exe is as follows:

- LOAD SETTINGS (optional but recommended)
- LOG (optional)
- one of the other commands (CONVERT, CONVERT\_AND\_EXECUTE\_XML, CONVERT2D, GENERATE SCREENSHOT OF EXPORT VIEWS)

#### **CONVERT** 1.1

Converts assemblies and monolithic 3D files to monolithic 3D files.

#### KAS.exe CONVERT <INPUT> <OUTPUT> <FORMATS>

Parameters	Description
INPUT	Directory path and file name of the input file
OUTPUT	Directory path and file name of the output file(s)  For single format, no file extension will be added, if you want one, you have to include it in the file name.
	For multi format, the extension will be added.
FORMATS	Use comma for separation when using multiple formats:
	3DVS
	3MF
	ACIS
	FBX
	GLTF
	IFC
	IGES
	JT
	ОВЈ
	PARASOLID
	PDFPRC
	PRC
	STEP
	STL

Commands 3DViewStatio

Parameters	Description
	U3D
	VRML
	VSXML

#### Examples:

```
"C:\Program Files\Kisters\ViewStation\KAS.exe" CONVERT "D:
\Test.prt" "D:\Test" "3DVS, PDFPRC"

"C:\Program Files\Kisters\ViewStation\KAS.exe" CONVERT "D:
\Test.prt" "D:\Test.3dvs" "3DVS"
```

## 1.2 CONVERT\_AND\_EXECUTE\_XML

Available as of 2022.5.

Loads assemblies and monolithic 3D files, applies XML commands and exports monolithic 3D files.

KAS.exe CONVERT\_AND\_EXECUTE\_XML <INPUT> <XML-API-FILE> <OUTPUT>
<FORMATS>

Parameters	Description
INPUT	Directory path and file name of the input file
XML-API-FILE	Directory path and file name of the xml file (XML API documentation: XML API)
OUTPUT	Directory path and file name of the output file(s)  For single format, no file extension will be added, if you want one, you have to include it in the file name.  For multi format, the extension will be added.
FORMATS	Use comma for separation when using multiple formats:  3DVS  3MF  ACIS  FBX  GLTF  IFC  IGES  JT  OBJ  PARASOLID  PDFPRC  PRC

3DViewStation Commands

Parameters	Description
	STEP
	STL
	U3D
	VRML
	VSXML

#### Examples:

```
"C:\Program Files\Kisters\ViewStation\KAS.exe" CONVERT_AND_EXECUTE_XML "D:\Test.prt" "D:\Test.3dvs" "3DVS"
```

### 1.3 CONVERT2D

Available as of 2019.0.340.

Converts 2D files to 2D files.

Parameters	Description
INPUT	Directory path and file name of the input file
ОИТРИТ	Directory path and file name of the output file(s)  For single format, the file must include the file extension.  For multi format, the extension will be added.
FORMATS	Use comma for separation when using multiple formats:  3DVS PDF

#### Examples:

```
"C:\Program Files\Kisters\ViewStation\KAS.exe" CONVERT2D "D:
\Test.dxf" "D:\Test" "3DVS, PDF"

"C:\Program Files\Kisters\ViewStation\KAS.exe" CONVERT2D "D:
\Test.dxf" "D:\Test.3dvs" "3DVS"
```

## 1.4 GENERATE\_SCREENSHOT

Generates a screenshot of 3D and 2D files.

KAS.exe GENERATE SCREENSHOT <INPUT> <OUTPUT> <FORMATS>

Commands 3DViewStatic

Parameters	Description
INPUT	Directory path and file name of the input file
OUTPUT	Directory path and file name of the output file(s)  For single format, the file must include the file extension.  For multi format, the extension will be added.
FORMATS	Export formats: PNG JPG BMP PDF

#### Example:

```
"C:\Program Files\Kisters\ViewStation\KAS.exe"

GENERATE_SCREENSHOT "D:\Test.prt" "D:\Test" "PNG,JPG"

"C:\Program Files\Kisters\ViewStation\KAS.exe"

GENERATE_SCREENSHOT "D:\Test.prt" "D:\Test.png" "PNG"
```

## 1.5 EXPORT\_VIEWS

To generate screenshots for all (specified) views of the model.

PNGs are created as individual files in the specified folder.

The PDF file contains all (specified) views including the physical properties of the visible parts.

## KAS.exe EXPORT\_VIEWS <INPUT> <OUTPUT> <FORMATS> <VIEW\_ID>

Parameters	Description
INPUT	Directory path and file name of the input file.
OUTPUT	PNG: Directory path of the output file(s). The file name is equal to the view name.  PDF: Directory path and file name of the output file.
FORMATS	Export formats: PNG PDF  Only one format may be specified.
VIEW_ID	Optional: Exports only the views specified in the comma-separated list.

3DViewStation Commands

#### Example:

```
"C:\Program Files\Kisters\ViewStation\KAS.exe" EXPORT_VIEWS "D:
\Test.prt" "D:\Test" "PNG"
"C:\Program Files\Kisters\ViewStation\KAS.exe" EXPORT_VIEWS "D:
\Test.prt" "D:\Test" "PNG" "0,3,4,5"

"C:\Program Files\Kisters\ViewStation\KAS.exe" EXPORT_VIEWS "D:
\Test.prt" "D:\Test.pdf" "PDF"
"C:\Program Files\Kisters\ViewStation\KAS.exe" EXPORT_VIEWS "D:
\Test.prt" "D:\Test.pdf" "PDF"
"C:\Program Files\Kisters\ViewStation\KAS.exe" EXPORT_VIEWS "D:
\Test.prt" "D:\Test.pdf" "PDF" "0,3,4,5"
```

## 1.6 LOAD\_SETTINGS

Initially the default settings will be loaded. With this setting you can reference a settings file, which will overwrite the defaults.

```
KAS.exe LOAD SETTINGS <FILENAME> <COMMANDS>
```

Parameters	Description
FILENAME	File name of the settings file to use.
COMMANDS	Any other command except LOAD_SETTINGS.

#### Example:

```
"C:\Program Files\Kisters\ViewStation\KAS.exe" LOAD_SETTINGS "D:\Settings.xml" CONVERT "D:\Test.prt" "D:\Test" "3DVS, PDFPRC"
```

### 1.7 LOG

Available as of 2022.7.

Generates a log file of the conversion.

#### KAS.exe LOG <FILENAME> <COMMANDS>

Parameters	Description
FILENAME	File name of the log file to use.
COMMANDS	Any other command except LOG and LOAD_SETTINGS.

#### Example:

```
"C:\Program Files\Kisters\ViewStation\KAS.exe" LOAD_SETTINGS "D:
\Settings.xml" LOG "D:\Log\convert.log" CONVERT "D:\Test.prt"
"D:\Test" "3DVS,PDFPRC"
```



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# **Extensions**



3DViewStation Extensions

### 2 Extensions

The following extensions are currently available on request:

KAS Monitor 12

#### 2.1 KAS Monitor

Current Version: 1.0.3.0

#### Overview

The Folder Monitoring and Conversion Tool is a Windows service that monitors a designated input directory for newly created files and converts them using the KAS application. The tool supports parallel processing, logging, and conversion of specific file formats. It also includes a special case handling the extraction and conversion of files from ZIP archives.

### **Settings**

The settings are defined in an appsettings.json file next to the KAS monitor.

The tool is configured with the following settings:

- kas: Path to the KAS executable file.
- settings: Path to the configuration settings file for KAS.
- input: Path to the directory where incoming files are monitored.
- output: Path to the directory where successfully converted files are stored.
- done: Path to the directory in which the original data is stored after a successful conversion.
- failed: Path to the directory where files that encountered conversion errors are moved.
- log file location: Path to the directory where log files are stored.
- format: The target format for conversion (e.g., "3DVS").
- include file filter: Expression pattern to filter files for conversion.
- number of processes: The maximum number of parallel conversion processes.
- kas logging enabled: Defines whether the KAS should write a separate log file.
- xml api file path: Applies XML commands during the conversion process

Extensions 3DViewStation

#### **Conversion Process**

The tool performs the following steps:

- Continuously monitors the input directory for new files.
- Upon detecting a new file, it initiates the conversion process using the KAS application.
- If conversion is successful:
  - Moves the original file to the done folder and maintains the structure.
  - Moves the converted file to the output directory.
- In case of a conversion error:
  - Moves the original file to the failed directory.
- In case of file is ignored due to filter:
  - Move the original file to the output directory.

#### Special Case (ZIP Archive)

- If a ZIP archive is detected in the input directory:
  - Extracts the contents of the ZIP archive.
  - Creates a directory in the output directory with the ZIP archive's name (excluding ".zip").
  - If the directory already exists through a previous process, the converted data will be stored within that folder accordingly.
- Recursively processes each file within the extracted directory:
  - Converts the file using the KAS application.
  - Places the converted file in the corresponding directory within the output directory.
  - Moves the original file to the done folder and maintains the structure.

#### Conclusion

The Folder Monitoring and Conversion Tool streamlines file conversion tasks by monitoring the input directory, performing conversions using KAS, and managing successful and failed conversions. With parallel processing, logging, and customizable settings, the tool enhances workflow efficiency. It also handles the special case of ZIP archive extraction and conversion while managing import settings for PLMXML assemblies.