# bionano™

# Bionano VIA™ Sample Importer User Guide

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# Revision History

| REVISION | NOTES |
|----------|-------|
| A | Initial release |

CG-00047, Rev.A, Bionano VIA™ Sample Importer User Guide.
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# Sample Importer

## Overview

The VIA Sample Importer is a command line utility that streamlines and automates sample loading and processing for VIA software. It requires as input the sample descriptor file that specifies samples, location, and processing settings. See *VIA User Guide* (P/N CG-00043).

This utility is used in conjunction with the VIA software. The versions must match between the two software. E.g., VIA Sample Importer 7.0 can only be used with VIA 7.0; it cannot be used with an older version or a version newer than 7.0. There is no backward compatibility with the utility.

Any errors generated by the utility are written to a log file (log.txt) in the installation directory. The log file is overwritten each time the utility is run.

## Installation

The Sample Importer is installed in the same manner as VIA Client (e.g., for Windows machines, double click on the **installer.exe** and follow the prompts; review the *Client installation* section of the *VIA Installation Guide* (P/N CG-00044).

## Command

- The VIA Client must not be open when the command is running or else an error will be incurred: ***Authentication Failed: Unable to login with specified User/Password.***

- Arguments must be separated by a space.

- Environmental variables can be used as command line arguments. For example, in Windows an environment variable VIA_SAMPLE_IMPORTER_PWD can be created and passed as an argument to the VIASampleImporter executable.

  ```
  set VIA_SAMPLE_IMPORTER_PWD=-password=password-goes-here

  VIASampleImporter.exe -server=localhost -port=8081
  %VIA_SAMPLE_IMPORTER_PWD% -user=dataloader –descriptorFile=desriptor.txt
  -overrideExisting=true –http -uploadOnly
  ```

- The default install directory in Window OS is `C:\Program Files\Bionano\VIASampleImporter`. The default install directory in Linux OS is `/root/Bionano/VIASampleImporter`.

  Example usage with all arguments in Windows Command Prompt:

  ```
  C:\>"C:\Program Files\Bionano\VIASampleImporter\VIASampleImporter.exe"
  -server=localhost -port=8081 -user=dataloader -password=password-goes-here -
  descriptorFile="C:\Users\Sue\Downloads\bamMSRdescriptor.txt" -overrideExisting=true -http –
  uploadOnly
  ```

Example usage with all arguments in Linux command line:

```
~]# "/root/Bionano/VIASampleImporter/VIASampleImporter" -server=localhost
-port=8081 -user=dataloader -password=password-goes-here
-descriptorFile="C:\Users\Sue\Downloads\bamMSRdescriptor.txt"
-overrideExisting=true -http -uploadOnly
```

- Use `-help` to list available arguments and description.

  Example in Windows Command prompt:

```
C:\Program Files\Bionano\VIASampleImporter> VIASampleImporter.exe -help
```

  Example in Linux command line:

```
~ ]# "/root/Bionano/VIASampleImporter/VIASampleImporter" -help
```

## Parameters

Table 1. Required arguments are in black; optional, in blue.

| Argument name | Description |
|---|---|
| **-server** | IP address or name of the server host (e.g., localhost, 138.1.10.1) |
| **-port** | port over which the server is communicating; usually 8081 or 8443 |
| **-user** | VIA username; must have appropriate privileges:<br>    *Ability to upload samples.*<br>    *Ability to process samples.*<br>Both privileges are required if uploading and processing<br>Only *Ability to upload samples* is needed if using the -uploadOnly flag |
| **-password** | Password for the user account |
| **-descriptorFile** | path to the location of the sample descriptor file (e.g., `"C:\Users\Sue\Desktop\Samples\Batch Import cancerType.txt"`) |
| **-overrideExisting** | values "true" or "false" that instruct whether a found sample should be overwritten.<br>if `-overrideExisting=true` then a sample already in the db with the same name will be replaced by this new sample; if the value is "false" then the sample will be skipped |
| **-nolog** | Error and standard output are sent to `stdout` instead of being written to a log file (`log.txt` in the install directory) |
| **-http** | use http connection; default is https |
| **-uploadOnly** | upload samples but do not queue for processing - without this argument, samples are automatically queued for processing |
| **-help** | prints the list of arguments and a description of each; this argument can be entered as the sole argument |
| **-version** | outputs the VIA Sample Importer version; this argument can be entered as the sole argument |

# Technical Assistance

For technical assistance, contact Bionano Genomics Technical Support.

You can retrieve documentation on Bionano products, SDS's, certificates of analysis, frequently asked questions, and other related documents from the Support website or by request through e-mail and telephone.

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