# Simio WebAPI Note: RunSimioPortalExpConsole

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# RunSimioPortalExpConsole

## Overview

This .NET console example illustrates how the Simio WebAPI can be used to control the upload, download, and run for Simio Experiments and Plans.

## The Program and the Command Line Interface

By default, the Simio Console Application reads the *RunSimioPortalExpConsole.exe.config* file from within the directory containing RunSimioPortalExpConsole.exe for the default values unless overridden via command line Parameters.

An example:

RunSimioPortalExpConsole -prj TEST\_Model -rsn RunScheduleName -psn PublishScheduleName -psd PublishScheduleDescription -rsc SchedPublishSuccessFileName=F:\\SiteA\\Trigger\_APO\\PublishStatus.csv -iat False -rs False -eat True -psr True -sts Minute

**General Parameters**

-url : Simio Portal URL

-pat : Personal Access Token

-ris : Retry Results Interval Seconds

-rma : Retry Results Max Attempts

-w : wait (pause) at end of Console run

**Authentication Parameters**

-at : Authentication Type

-d : Domain

-u : User Name

-p : Password

-btr : Bearer Token Refresh Interval Minutes – time in minutes between Bearer Token Refreshes

**Scheduling Parameters**

-prj : Project Name

-rsn : Run Schedule Plan Scenario Name

-rsc : Run Schedule Control Values Array

-rs : Run Schedule

-rra : Run Risk Analysis

-psr : Publish Schedule Plan Run

-psn : Publish Schedule Name

-psd : Publish Schedule Description

**Scheduling Only Parameters**

-rld : Run Length Days for model

-iat : Import All Tables before Schedule Run

-eat : Export All Tables And Logs after Schedule Run

-sts : Start Time Selection i.e., Current Second/Minute/Hour/Day

**Experiments Parameters**

-erd : Run Experiment Run Description

-rej : Run Experiment Scenarios JSON parameters i.e., Scenario Name, Number of Replications Required, Control Values etc.

-apr : Add In Parameter Values i.e., Experiment Add In Id, Add In Name, Add In Parameters, Controls Add In Parameters, Responses Add In Parameters etc.

-re : Run Experiment

-psr : Publish Experiment Run

-pen : Publish Experiment Run Name

-ped : Publish Experiment Run Description

## Some Examples

To test the installation, we’ll employ some very simple examples, which are Simio projects that runs simple Experiments and Plans which are included in all Simio desktop installations.

Example of successful execution:

A computer screen capture

Description automatically generated with medium confidence

# Appendix: Command Line Options

For a list of Parameters execute *RunSimioPortalExpConsole.exe -?* from within a Command Prompt Window.

-url = Portal url *(default = https://mysimioportal.local/)*

-pat = Personal Access Token *(default = eyJ1IjoibG5lbEBzaW1pby5jb20iLCJ0IjoiQkhNMS9sTWtSOTkvNTR5N05BL21tcHpLSU80YkpXRGJOYVpRT0JMbzd3S21TeXh3V2NEYnZCUWsvNS9oaW5TdEt1RVNOV05wT1p0c1VyeDdBYXhUN3c9XxXx)*

-ris = Retry Results Interval Seconds *(default = 5)*

-rma = Retry Results Max Attempts *(default = 500)*

-at = Authentication Type *(default = None)*

-d = Domain *(default = )*

-u = User Name *(default = )*

-p = Password *(default = )*

-prj = Project Name *(default = SDPP\_Test\_ImportExportAll)*

-rsn = Run Schedule Plan Scenario Name *(default = SchedRun)*

-rsc = Run Schedule Control Values Array *(default = )*

-rs = Run Schedule *(default = True)*

-rra = Run RiskAnalysis *(default = False)*

-psr = Publish Schedule Plan Run *(default = True)*

-psn = Publish Schedule Name *(default = SchedRunPub)*

-psd = Publish Schedule Description *(default = SchedRunPubDesc)*

-erd = Run Experiment Run Desc *(default = OptquestRun)*

-rej = Run Experiment Scenarios JSON *(default = { "Scenarios": [{ "Name": "Scenario1", "ReplicationsRequired": 10, "ControlValues": [{ "Name": "ToolQty", "Value": 3}]}]})*

-apr = Add In Parameter Values *(default = {"ExperimentAddInId":"8a14cfc5-581c-46db-b63e-31bdaa98dcb0","AddInName":"OptQuest for Simio","AddInParameters":[{"Name":"Min Replications","Value": 6},{"Name":"Max Replications","Value": 20},{"Name":"Max Scenarios","Value": 300},{"Name":"Confidence Level","Value":"95%"},{"Name":"Relative Error","Value": 0.1},{"Name":"Objective Type","Value":"Single Objective"}], "ControlsAddInParameters":[{"ControlName":"ToolQty","ControlParameters":[{"Name":"Include in Optimization","Value":"Yes"},{"Name":"Minimum Value","Value": 1},{"Name":"Maximum Value","Value": 5},{"Name":"Increment","Value": 1}]}],"ResponsesAddInParameters":[{"ResponseName":"AverageLateness","ResponseParameters":[{"Name":"Weight","Value": 1}]}]})*

-re = Run Experiment *(default = False)*

-psr = Publish Experiment Run *(default = False)*

-pen = Publish Experiment Run Name *(default = C130Inventory20211101\_Test\_Pub)*

-ped = Publish Experiment Run Description *(default = C130Inventory20211101\_Test\_PubDesc)*

-rld = Run Length Days (Scheduling Only) *(default = 28)*

-iat = Import All Tables (Scheduling Only) *(default = True)*

-eat = Export All Tables And Logs (Scheduling Only) *(default = True)*

-sts = Start Time Selection (Scheduling Only) *(default = Minute)*

-btr = Bearer Token Refresh Interval Minutes *(default = 15)*

-w = wait (pause) at end *(default = True)*