

# Using the Tachyon Policy Tool

## Summary

How to use the Tachyon Policy Tool to import and manage Guaranteed State policy objects. The Policy Tool is available in the [Tachyon Platform zip](#) file from the 1E support portal page (<https://1eportal.force.com>).

The Tachyon Policy Tool is a **command-line interface** tool used to import and manage the following Guaranteed State elements that are defined in XML files.

- Fragments
- Policies
- Rules
- Trigger templates

The tool is capable of performing the following operations

- Import and validate policy object definitions from one or more XML files
- Validate the policy object definitions only
- Show a summary list of policy objects of a given type on the server
- Delete a policy object with the given ID on the server
- Show policy objects referencing a given object instance specified by its ID
- Export general XML files from the policy object specified by its ID

## Permissions

To access the Guaranteed State application and its pages you must be a Tachyon user with at least one of the following permissions:

- **Guaranteed State Administrators** system role - has full control over the Guaranteed State configuration
- **Guaranteed State Viewers** system role - able to view the Guaranteed State configuration and reports
- Custom roles with **Guaranteed state** type permission - read, and write permission

## Bulk importing data using the policy tool

A batch file is supplied with the policy pack which will import all components using the policy tool.

Currently it looks like this:

```
@echo off
Tachyon.Policy.exe -action=import -object=triggertemplates -file=TriggerTemplates\*.xml
pause
Tachyon.Policy.exe -action=import -object=fragments -file=Fragments\*-check-*.xml -fragmenttype=check
pause
Tachyon.Policy.exe -action=import -object=fragments -file=Fragments\*-fix-*.xml -fragmenttype=fix
pause
Tachyon.Policy.exe -action=import -object=fragments -file=Fragments\*-precondition-*.xml -
fragmenttype=precondition
pause
Tachyon.Policy.exe -action=import -object=rules -file=Rules\*.xml
pause
Tachyon.Policy.exe -action=import -object=policies -file=Policies\*.xml
```

The -file

## Command line syntax

Commands take the general form:

```
Tachyon.Policy.exe -Server=serverUrl -Object=objectType -Action=action <action-specific-options...>
```

## Mandatory parameters

You must specify the following parameters for all actions. Some actions have additional optional parameters which are discussed in the section below on Action-specific options

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## -Server

The -Server parameter specifies the URL of the Tachyon server's Consumer API endpoint. For example:

```
https://tachyon4.urth.local/Consumer
```



You can omit the -server option if you set an environment variable TACHYON\_CONSUMER\_URL

## -Object

The -Object parameter specifies the policy object type. It can be one of the following values:-

- Fragments
- TriggerTemplates
- Rules
- Policies

## -Action

The action parameter specifies the desired action you wish to perform. Valid actions are

- **Import** - validate and import definition(s) from one or more XML file(s)
- **Validate** - validate definition(s) from XML file(s)
- **List** - Show a summary list of the policy objects of a given type on the server
- **Delete** - Delete policy object with given ID from the server
- **References** - Show policy objects referencing a given object specified by its ID
- **Export** - generate XML file(s) for the policy object specified by its ID

## Action-specific options

Some actions have specific options which are applicable to that action. You specify these options as shown below

### -Action=Import or -Action=Validate

The following additional options are required for these actions

#### -File=<xml source file>

This option defines the name of the source file for the import or validate action. You can specify this option multiple times to process several files. You can also specify wildcards in any part or parts of the file name. For example

```
-file=Fragments\*-check-*.xml
```

#### -FragmentType <check|fix|precondition>

If the -Object parameter specified the policy object type as Fragments, this option defines the type of fragment.

#### -SkipExisting=<true|false>

Specifies whether policy objects already existing on the Tachyon database will be skipped during import or validation. If not specified, the default is false. Specifying SkipExisting=true will mean that any files being validated or imported, that match an existing policy object, will not be processed.



You cannot force the replacement of an existing policy object when specifying -Action=Import. If SkipExisting is false and the policy object already exists, you will receive an error message and the pre-existing policy object will remain unchanged.

### -Action=Delete, References or Export

The following additional options are required for these actions

#### -Id=<id|id1,id2..|\*>

Specifies the Id(s) of the object instance. The Id is assigned automatically when the instance is created. To view Ids, use the -list option

You can specify a single Id, a comma-separated list of Ids, or the wildcard symbol (\*) to specify all Ids

## Examples

### List all trigger templates

```
Tachyon.Policy.exe -Server=https://tachyon.acme.local/Consumer -Object=triggertemplates -Action=list
```

### Export all fragments

```
Tachyon.Policy.exe -Server=https://tachyon.acme.local/Consumer -Object=fragments -Action=export -Id=*
```

### Delete policy with Id=7

```
Tachyon.Policy.exe -Server=https://tachyon.acme.local/Consumer -Object=policies -Action=delete -Id=7
```

### Show all references to fragment IDs 88, 89 and 90

```
Tachyon.Policy.exe -Server=https://tachyon.acme.local/Consumer -Object=fragments -Action=references -Id=88,89,90
```

## Source XML files

### Fragments

Fragments contain the following elements:

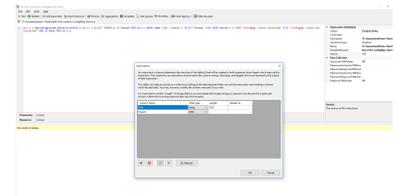
- **Name** - this is the unique name of the fragment, like the Name of an instruction
- **Type** - whether it is a Check, a Fix, or a Precondition - similar to the InstructionType for normal instructions
- **ReadablePayload** - this is friendly text which is displayed in the UI with parameters replaced with their values
- **Payload** - this is the actual SCALE payload that gets executed, just like the Payload of a regular instruction
- **ParameterJson** - these are the parameters for the Fragment. This works exactly like a regular instruction.

These instructions must have two return columns (SchemaJson):

- **Passed** (Boolean) - whether or not the fragment evaluated successfully
- **Data** (String) - additional data only used for displaying to the user

Fragment source XML files are valid files for processing using the TIMS instruction authoring tool.

An example loaded fragment XML file is shown opposite.



The output schema must be as shown. It is assumed that any fragment will return a Data column and a Passed column.



