



## 03 - Test Execution - Workflow

### FHIR Testing and Certification – Exercise

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During this hands-on session of the FHIR Testing tutorial we will explore TestScript Execution within the Touchstone Project environment. This exercise examines a series of basic FHIR operations (read, search, create, update and delete). All operations are performed in a single TestScript illustrating a workflow sequence of event. The following generic steps performed in sequence will be used to execute the TestScript:

1. **Create and execute a Test Setup**

*Related online document: Touchstone User Guide, Section 'Executing Tests/Creating Test Setup'.*

2. **Examine the Test Execution interface**

*Related online document: Touchstone User Guide, Section 'Executing Tests/ Test Executions'.*

3. **Examine the TestScript Execution interface**

*Related online document: Touchstone User Guide, Section 'Executing Tests/Test Execution Results'.*

*\*TestScripts for this exercise are in the Touchstone Test Definitions folder **FHIRSandbox/AEGIS/FHIR3-0-1-DevDays18-11/FHIRTesting/03-Workflow***

*\*\*For detailed test execution guidance please refer to the online Touchstone User Guide, Section 'Executing Tests': <https://touchstone.aegis.net/touchstone/userguide/html/executing-tests/index.html>*

### TestScript Description

#### Workflow

Test the basic FHIR operations against a Patient resource type. The operations are ordered according to a basic workflow pattern of create, update, read, search and delete.

#### Features

- ❖ Uses the setup element prior to all tests; *examine the setup and note the use of the conditional delete operation; why is this only operation needed?*
- ❖ Uses fixtures; *examine the fixtures and note the static contents*
- ❖ Uses multiple profiles; *asserts invoke the FHIR Validation Engine using profiles*
- ❖ Uses multiple variables; *examine the variable definitions and their use throughout the various asserts*
- ❖ Examine the various asserts; *some operations only have one or two, others have many; based on the FHIR specification, what other possible asserts might be needed?*

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The detailed tutorial documents for these exercises can be found at:

<https://github.com/rettema/DevDays-Exercises/DevDays18-Amsterdam/FHIR Testing and Certification>

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Have fun! And, remember to ask for help if you get stuck