



# CHAPTER 18

## Bean Shell Commands

This chapter describes the methods that should be used for Bean Shell in Cisco ANA commands when you want to interact with devices. In addition, it provides Telnet and SNMP environment object examples.



### Caution

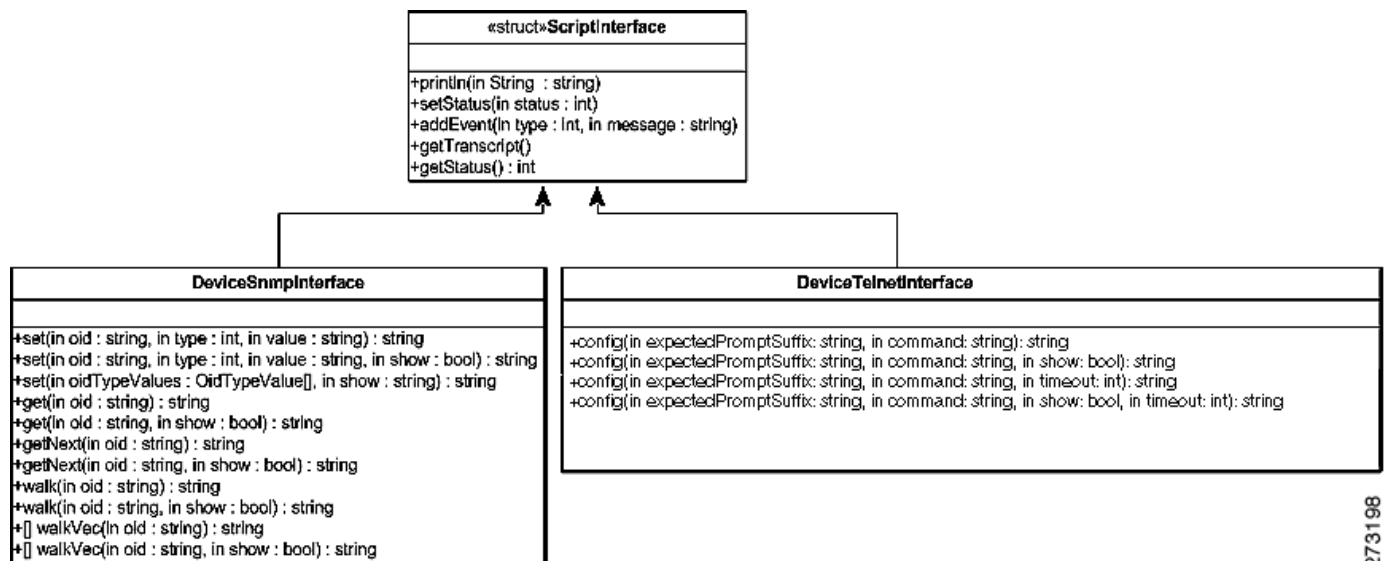
Unlike Cisco ANA Macro Language, in Bean Shell user arguments, inventory properties should *not* be embedded within dollar signs (\$...\$).

This chapter includes the following sections:

- [Telnet Examples, page 18-2](#)
- [SNMP Examples, page 18-2](#)

Figure 18-1 presents the methods that should be used for Bean Shell in Cisco ANA commands when interacting with devices for Telnet and SNMP interfaces.

Figure 18-1 Bean Shell Methods



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### Note

For setStatus, 1 = success and 2 = failure.

## Telnet Examples

The following are examples of the available predefined Telnet environment objects that you can use to interact with a device:

- `telnetInterface.config(prompt, telnet_command, true/false, timeout)`—Where:
  - `prompt` is the expected prompt after command is executed.
  - `telnet_command` is the actual command to be executed.
  - `true/false` displays or hides results.
  - `timeout` is the number of milliseconds before the command times out.
- `telnetInterface.setStatus(1 or 2)`—Where 1 = success and 2 = fail; used, for example, to signal to Workflow Manager that a configuration command has succeeded or failed.

A timeout error reports the failure in the following format:

```
Unexpected error occurred during script execution:
receiveUntil(): general timeout expired(value=<elapsed_time_in_milliseconds>)
(<command_run>)
Elapsed time: <elapsed_time_in_seconds> seconds
```

where:

- `elapsed_time_in_milliseconds` is the length of the timeout in milliseconds.
- `command_run` is the command that was being executed when the timeout occurred.
- `elapsed_time_in_seconds` is the length of the timeout in seconds.

For example, a timeout error might read as follows:

```
Unexpected error occurred during script execution:
receiveUntil(): general timeout expired(value=10000)(copy tftp://171.69.75.3/radA020C.tmp
null:
Accessing tftp://171.69.75.3/radA020C.tmp...)
Elapsed time: 10 seconds
```

## SNMP Examples

The following are examples of the available predefined SNMP environment objects that you can use to interact with a device:

- `snmpInterface.get(OID, true/false)`—Gets OID, and displays or hides results.
- `snmpInterface.getNext(OID, true/false)`—Gets next OID, and displays or hides results.
- `snmpInterface.set(OID, variable type, value)`—Sets OID to specified value.
- `snmpInterface.walk(OID, true/false)`—Returns vector of strings.
- `snmpInterface.setStatus(1 or 2)`—Where 1 = success and 2 = failure; used, for example, to signal Workflow Manager that a configuration command has succeeded or failed.

For additional information about general scripting language, refer to <http://www.beanshell.org/>.