HeadSpin Appium Capabilities

Capability	Description	Values
headspin:appi umVersion	Appium version to be used for the test. Defaults to the latest stable version installed on the host. See Setting the Appium Version below.	e.g. 1.10.0, 1.9.1
headspin:capt ure	Enable video and network sessions capture. Default false.	true, false
headspin:capt ure.video	Enable video capture. When this is set, it takes precedence over headspin:capture. Also, headspin:capture does not need to be set for this take effect.	true, false
headspin:capt ure.network	Enable network capture. When this is set, it takes precedence over headspin:capture. Also, headspin:capture does not need to be set for this take effect.	true, false

Capability	Description	Values
headspin:capt ure.ignoreHos ts	A list of ignored host:port regex patterns. These hosts are ignored from the network capture session. The pattern can be just a host name also, in which case all ports are matched.	e.g . ['abc\.exampl e\.com:443', '.*\.mydomain.com ']
headspin:capt ure.networkC onfig	Configures the network used by the device during the capture session.	Allowed keys are shaping, redire ctRules, spoofRule s, headerRules. See Network Configbelow for details of each.
headspin:test Name	Full name of a test in the performance monitoring section. This is only valid if headspin:capture iS true. Analysis metrics of the captured data will be exported to the user flow named by the value. For details on adding passed/failed/excluded status on the session, see User Flow Status below.	e.g .app_load_test

Capability	Description	Values
headspin:test Data	Add custom measurements to the session. This data will be inserted into the performance test, for this session ID	<pre>e.g. [{"key":"App Load Time", "value":20, "title": "Custom Metrics", "units": "seconds"}]</pre>
headspin:quit OnDisconnect	Quit the session when client disconnects	true, false
headspin:rest artDeviceOnS essionStart	Restarts the device before starting the test. Default false.	true, false
headspin:use AppiumUnloc k	Unlock the device using appium's built-in mechanism when set to true. In all cases, HeadSpin's software+hardware "pintap" system will activate if the device is still locked, which will handle MDM and other hard lock cases. Default false.	true, false

Capability	Description	Values
headspin:rem oveAppPacka ges	Provide a list of package globs to uninstall before starting the test	<pre>e.g. ['com.example .app', 'com.xyz.app', 'com.foo.*']</pre>
headspin:rese tUiAutomator 2	Uninstall io.appium.uiautomator2 .server and io.appium.uiautomat or2.server.test packages before starting the test. Default false.	true, false
headspin:cont rolLock	Control the device from remote control UI while the test is running. This should be used with tools like Appium Desktop where you may want to manually interact with the device during a session. UI will display the device screen in view only mode when the value is false. Default false.	true, false
headspin:use MjpegScreen shotUrl	Use HeadSpin MJPEG server to capture device screen. Defaults to false	true, false

Capability	Description	Values
headspin:log Path	Custom log path for storing Appium server logs	e.g ./tmp/appium.l og

Load balancer capabilities

Capability	Description	Values
headspin:selector	A selector string of the device to use. This takes precedence over deviceName and udid. See selectorsfor the selector syntax. The load balancer will consider all the devices in the pool and use the healthiest that is most available to run the session.	os: android os_version: >7.0
headspin:requestTimeout	Handle a request timeout from AppiumLB to each devices. It affects only when a client communicate with the target Appium server via AppiumLB. Defaults to 90 sec.	e.g. 120

Setting the Appium Version

New appium versions are made available to customers per customer request, as soon as they are certified on the platform. HeadSpin works with the Appium team to test and provide new versions ^3. A few select versions are available on every host by default, typically those used by the HeadSpin recorder, which work with the widest set of Android and iOS devices. The current recorder version is **1.11.1**.

You should always set headspin:appiumVersion to the version you are using, to avoid changes related to system updates in the future.

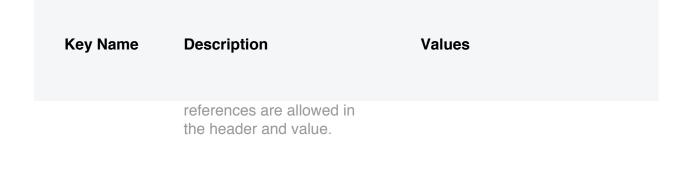
Key Name Description Values Network conditioning targets. Rate targets are upper bounds on the native link speed. Round trip time and packet loss are additive to the behavior of the native link. All values must be zero e.g. {"down": 5.1, "up": shaping or positive. down is the 1.2, "rtt": 10, "loss": 0.5} download rate in megabit per second (mbps). up is the upload rate in megabit per second (mbps). rtt is the round trip time in millisecond. loss is the packet loss in percentage.

Network Config

Key Name	Description	Values
redirectR ules	A list of rules host_regex=destinat ion_host. If the host regex matches a host, the request will be rewritten as if the client sent it to destination_host instea d. Backtick back references are allowed in the destination host.	<pre>e.g. ["foo\.com=bar.com", "(.*)headspin\.io=\1heads pin.com"]</pre>

spoofRule s	A list of rules host_regex=destinat ion_host. If the host regex matches a host, the request IP will be changed to the IP resolved by destination host, as if the DNS record for the original host were changed to the destination host's.	e.g. ["foo\.com=13.33.148.1 90", ".*\.headspin.io=13.33.14 8.51"]
has been a	A list of rules host_regex=header:v alue. If the host regex	

headerRul es	alue. If the host regex matches, the header will be injected into the request. Multiple headers of the	<pre>e.g. [".*=X-Custom:MyApp"]</pre>
	same name will be comma separated in the final	
	request. Backtick back	



User Flow Status

Out of the box appium does not provide facilities to mark sessions passed, failed, or in some error state. To fill this gap and provide visibility across all your tests:

- 1. set headspin:testName on the session [*]
- 2. POST to the performance API to set the status of the session, using the session ID from the driver

For example the python script below sets the test status using requests.

```
from appium import webdriver
import requests
driver = webdriver.Remote ...
# status can be one of passed, failed, excluded
perf data = {
    'session_id' driver.session_
    'status' 'passed'
requests.post 'https://api-dev.headspin.io/v0/perftests/upload'
json=perf_data
```

[*] If you did not do step 1, it is possible to set the testName after the fact also using the performance API.