Advanced configuration reference

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Most administrators should use AIQ. The following reference is for standalone nodes and integration tooling. DSServer validates known keys and keeps its existing ownership boundaries; generic BrowserStack capabilities are not arbitrary pass-through settings.

Standalone global.json example and editing

procedure

1. Stop the affected DSServer with its normal service/launcher controls and back up the active configuration.
2. Locate <installation>/NetworkProxy/config/global.json (development run: distribution/config/global.json).
3. Merge the root browserStack object alongside existing root sections. Preserve all other configuration. The example deliberately disables accessibility for an initial functional smoke test; enable it when the account and target are ready.
4. Replace the credential placeholders privately. The profiles array replaces the existing list; these names match known starter profiles whose internal fields are filled by the loader.
5. Start DSServer, inspect configuration logs, and verify the profile list and one short run.

{

"browserStack": {

"enabled": true,

"username": "<BROWSERSTACK_USERNAME>",

"accessKey": "<BROWSERSTACK_ACCESS_KEY>",

"localBinary": "./browserstack-local",

"maxSessions": 1,

"defaults": {

"projectName": "CustomerPortal-QA",

"accessibility": false

},

"profiles": [

{

"name": "BrowserStack-Chrome-Latest-Windows11",

"enabled": true,

"target": {

"browser": "chrome",

"browser_version": "latest",

"os": "Windows",

"os_version": "11"

}

},

{

"name": "BrowserStack-Safari-iPhone16-iOS18",

"enabled": true,

"target": {

"browser": "iphone",

"os": "ios",

"os_version": "18",

"device": "iPhone 16",

"real_mobile": true

}

}

]

}

}

The active file contains the access key in plain text. Restrict filesystem access and keep it out of source control, support bundles and shared folders. Shipped templates contain blank credentials. For custom targets, add through AIQ’s catalog or preserve the complete profile structure described below.

Account, endpoints and browser policy

Setting	Default	Meaning
enabled	false	Opt-in integration switch.
username, accessKey	Blank	BrowserStack account credentials.
localBinary	./browserstack-local	Bundled directory or explicit executable path.
maxSessions	1	Per-node cloud-session limit.
revision	local	AIQ sets a new saved revision; a running session retains its launch configuration.
endpoints.webdriver	https://hub-cloud.browserstack.com/wd/hub	Session creation and commands.
endpoints.api	https://api.browserstack.com	Plan validation and uncertain-allocation reconciliation.
endpoints.testhub	https://collector-observability.browserstack.com	Accessibility registration/events/finalization.
endpoints.accessibilityApi	https://api-accessibility.browserstack.com	Final report reads. Use the account’s documented regional endpoint if region restrictions apply.

Endpoints must use HTTPS and contain no URL credentials; only localhost test endpoints may use HTTP.

Policy precedence: defaults → matching familyDefaults (Chromium, Firefox, Safari) → iosDefaults for real iOS → the profile's overrides. Later layers override earlier ones.

Policy key	Default	Meaning
seleniumVersion	4.45.0	Requested provider Selenium version.
idleTimeoutSeconds	90	Provider idle timeout.
nativeProtocol	auto	auto, webdriver, cdp or bidi. Explicit CDP/BiDi fails startup if attachment is unavailable.
acceptInsecureCerts	true	Certificate policy; insufficient by itself for the measured Safari trust path.
networkLogs	False; true for Safari/iOS	Provider network proxy/logging used by the Safari HTTPS path.
captureNetworkContent	false	Response-body capture.
projectName	Blank	Stable BrowserStack grouping/report project.
buildNameMode	perRun	Build naming: perRun (unique per run), perDay (AIQ-YYYY-MM-DD, node-local date) or static (AIQ-Executions). AIQ's **Build name** sets it.
buildNameSuffix	Blank	Added after a dash to every build name in any mode. Up to 64 letters, digits, ., _ or -; other text rejects the configuration. Blank adds nothing and clears an earlier suffix. AIQ's **Build name suffix (optional)** sets it (17 Nov 2026).
accessibility	true	Enable integrated scans when eligible.
accessibilityOptions	WCAG 2.1 AA; auto scanning true	wcagVersion: wcag2a, wcag2aa, wcag2aaa, wcag21a, wcag21aa, wcag21aaa, wcag22a, wcag22aa, wcag22aaa; or rgaaVersion: "rgaa". Issue-type booleans: needsReview, experimental, advanced, bestPractice.
Advanced accessibility scope	Unset	includeTagsInTestingScope and excludeTagsInTestingScope are accepted lists. There is no AIQ field for them; end-to-end tag-based selection was not verified in this documentation review.

Profile schema, timeouts and Local overrides

Profile field	Rule
name	Unique; begins BrowserStack-; remaining characters use letters, digits, dots, underscores or hyphens. Preserve referenced names.
enabled	Controls availability in selectors.
target	Browser, OS and OS version required; desktop also needs browser version. Real mobile needs device and real_mobile=true. Use exact catalog values.
ManagerClass	com.appvance.platform.browserstack.BrowserStackBrowserManager.
browserFamily, groupName, isMobile	Match the target and desktop/mobile grouping. No local executable or container-pool configuration.
options	Keep session-routing: owned. Desktop Safari uses browser-message-transport: http.
overrides	Per-profile browser policy, for example {"accessibility":false}.

Section	Default values in milliseconds
timeouts	connectMs=10000; createSessionMs=90000; commandMs=30000; deleteSessionMs=10000; localStartMs=60000; localStopMs=2000; accessibilityReportMs=240000 (used only by the final playback step, which is turned off).
polling	inventoryMs=2000; healthMs=15000.
validation	refreshIntervalMs=60000; connectTimeoutMs=1000; readTimeoutMs=1500.
localUpdates	enabled=true; blank cacheDirectory; connectTimeoutMs=4000; readTimeoutMs=8000; downloadTimeoutMs=45000; lockTimeoutMs=60000; versionTimeoutMs=5000.

Configured timing values must be between 1 and 3,600,000 milliseconds. Accessibility final-report polling is fixed at 30-second intervals with a 10-minute deadline.

- BROWSERSTACK_LOCAL_BINARY: override the delivered executable path.
- BROWSERSTACK_LOCAL_BUNDLE_DIR or -Dds.browserstack.local.bundleDir: override the bundled folder.
- BROWSERSTACK_LOCAL_CACHE_DIR or -Dds.browserstack.local.cacheDir: choose the managed cache.

HTTP configuration for tools

Use POST /ds/dyn/platform/configureBrowserStack with form field configuration containing the JSON **browserStack section itself**. It merges, saves to the active file and applies immediately. Readback returns revision/profiles/availability without credentials.

Object merges do not delete omitted keys. Send explicit replacements to reset settings; a supplied profiles array replaces the saved array. To switch from RGAA back to WCAG, send rgaaVersion: "" with the chosen wcagVersion. Keep the credentials in the protected request body; never put them into URL parameters or command history. AIQ’s Apply button handles this transfer.

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