

SM Browser — MDM (Managed App Configuration)

This document describes the AppConfig keys supported by SM Browser for Mobile Device Management (MDM) enrollment.

Overview

SM Browser supports Apple Managed App Configuration via the `com.apple.configuration.managed` dictionary in `UserDefaults`. Any key present in the MDM payload is treated as **enforced** — the user cannot override it, and the corresponding setting control in the app is disabled with a "Managed by your organization" note.

Settings are resolved in the following precedence order:

1. **MDM** (locked/enforced) — highest priority
2. **Deep link** (runtime, session-only)
3. **App** (user-configured value in UserDefaults)
4. **Hardcoded default** — lowest priority

AppConfig Keys

Key	Type	Default	Description
<code>homepageURL</code>	String	<code>""</code> (none)	URL loaded automatically on app launch when no page is loaded.
<code>addressBarDisabled</code>	Bool	<code>false</code>	When <code>true</code> , the address bar is visible (shows domain) but non-editable and non-tappable.
<code>addressBarHidden</code>	Bool	<code>false</code>	When <code>true</code> , the entire top bar (address bar, navigation, settings gear) is hidden. Also user-settable in the iOS Settings app under SM Browser (MDM wins when both are set).
<code>autoSubmitForm</code>	Bool	<code>false</code>	Automatically submit the active form after barcode data is inserted.
<code>customJavaScriptEnabled</code>	Bool	<code>false</code>	Enable loading of a custom JavaScript handler from a remote URL.
<code>customJavaScriptURL</code>	String	<code>""</code> (none)	URL of the custom JavaScript file to load (requires <code>customJavaScriptEnabled</code>).
<code>isInspectable</code>	Bool	<code>false</code>	Enable Safari Web Inspector for the app's WKWebView (iOS 16.4+).

Deep-Link Configuration

SM Browser accepts configuration via deep links. Only **navigation/UX keys** are deep-link-eligible for security reasons.

Eligible for deep link

Parameter	Key	Aliases
<code>homepageURL</code>	<code>homepageURL</code>	—
<code>addressBarDisabled</code>	<code>addressBarDisabled</code>	<code>hideAddressBar</code> (deprecated)
<code>autoSubmitForm</code>	<code>autoSubmitForm</code>	<code>autoSubmit</code>

MDM-only (not deep-link-eligible)

These keys are intentionally blocked from deep-link override to prevent phishing/RCE vectors:

- `customJavaScriptEnabled`
- `customJavaScriptURL`
- `isInspectable`
- `addressBarHidden` (hiding UI via a scanned barcode must not be possible; the value stays recoverable from the iOS Settings app)

Deep-Link Formats

Configure only (no navigation):

```
smbrowser://config?autoSubmitForm=true&homepageURL=https%3A%2F%2Fexample.com
```

Navigate + configure (single link):

```
smbrowser://open?url=https%3A%2F%2Fexample.com%2Fform&addressBarDisabled=true&autoSubmit=true
```

Setting parameters on `open` links are applied as session overrides **before** navigation begins.

Deep-Link Override Behavior

- Deep-link overrides are **session-only** — they are cleared on cold launch (app killed + restarted).
- If a key is MDM-locked, the deep-link override is silently ignored (MDM always wins).
- Boolean values accept `true` / `1` for true, anything else for false.

Example MDM Payload (Apple Configurator / Jamf / etc.)

```
<dict>
  <key>homepageURL</key>
  <string>https://warehouse.example.com/scan</string>
  <key>addressBarDisabled</key>
  <true/>
  <key>autoSubmitForm</key>
  <true/>
  <key>customJavaScriptEnabled</key>
  <true/>
  <key>customJavaScriptURL</key>
  <string>https://cdn.example.com/smbrowser-handler.js</string>
</dict>
```

Notes

- MDM changes apply live (the app observes `UserDefaultsDidChangeNotification`).
- `addressBarHidden` changes made in the iOS Settings app are picked up when SM Browser returns to the foreground.
- Any key present in the MDM dictionary is treated as locked, regardless of its value.
- The `hideAddressBar` deep-link parameter is a deprecated alias for `addressBarDisabled` and will continue to work for backward compatibility.