# Temporarily Allow Synchronous XMLHTTPRequests in Chrome during Page Dismissal

while transitioning to

## Topaz SigWeb Asynchronous Reset

Date Updated: 4/23/2020

### Overview

#### Background:

Synchronous XMLHTTPRequests have been widely used over the years on web pages to program actions to occur when a web page is closed or dismissed without following the normal flow of the webpage, for example by selecting Done, Submit, or Complete buttons, etc. While these synchronous XMLHTTPRequest functions continue to be supported in Internet Explorer, Firefox, Edge, and other browsers, this functionality has been removed in Chrome version 80 and beyond.

#### Topaz SigWeb Asynchronous Reset (Version 1.6.4.1+):

The long-term solution to the changes to Chrome policy regarding Synchronous XMLHTTPRequests is to update Client software to SigWeb 1.6.4.1+ and modify the website to use the SigWeb asynchronous "Reset" function. To understand and implement this capability, please visit the Topaz website to download the software and review the provided instructions and how-to documents.

#### Temporary Chrome Workarounds:

While updating a webpage to support the asynchronous SigWeb Reset supported in version 1.6.4.1 and later, certain temporary Chrome workarounds to continue to support synchronous XMLHTTPRequests may ease in the transition. When XMLHTTPRequests are not supported, the connection to the pad may stay open and/or LCD text may stay on the screen after the web page is closed.

#### Signature Pad Hardware Reset:

If your signature pad needs a reset after a webpage has closed in Chrome 80, please follow these steps:

- Implement one of the Options provided below to configure Chrome, restart Chrome
- Unplug and re-plug the signature pad.
- Restart the Topaz SigWeb Tablet Service.

#### Temporary workaround option 1 - Set Chrome Flag

- 1. Open Chrome browser
- 2. Go to chrome://flags/#allow-sync-xhr-in-page-dismissal
- 3. Change the drop-down selection from "Default" or "Disabled" to "Enabled".

Enabled

4. Restart Chrome.

#### Temporary workaround option 2 – Run Registry File to Change Chrome Registry Policy

- 1. Run the AllowSyncXHRInPageDismissal.reg available at: https://www.topazsystems.com/Software/AllowSyncXHRInPageDismissal.zip
- 2. Restart Chrome.

Allows synchronous XHR requests in page dismissal

Allows synchronous XHR requests during page dismissal when the page is being navigated away or closed by the user. – Mac, Windows, Linux, Chrome OS, Android #allow-sync-xhr-in-page-dismissal

Temporary workaround option 3 – Modify Chrome Registry policy via Regedit.

1. Open Regedit by pressing the "Windows Key + R" keys, typing "regedit.exe", and then pressing the "Enter" key or selecting the "OK" button.

📨 Run	×					
٨	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.					
Open:	regedit.exe ~					
	OK Cancel Browse					

2. In regedit, go to or create

"Computer\HKEY\_LOCAL\_MACHINE\SOFTWARE\Policies\Google\Chrome"

3. Add the REG\_DWORD value "AllowSyncXHRInPageDismissal" with hexadecimal value 1.

🞬 Registry Editor						
File Edit View Favorites Help						
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Google\Chrome						
✓     Policies       >     Adobe       ✓     Google       ✓     Chome	^	Name (Default) MAllowSyncXHRInPageDismissal	Type REG_SZ REG_DWORD	Data (value not set) 0x00000001 (1)		

#### Temporary workaround option 4 – Change Chrome Group Policy

- 1. Go to https://support.google.com/chrome/a/answer/187202
- 2. Follow the steps under "Install and configure Chrome policy templates" for your OS

3. After installing and configuring the Chrome policy templates in GPO, open GPO by pressing "Windows Key + R", typing "gpedit.msc", and then pressing the "Enter" key or selecting the "OK" button.

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 Under "Computer Configuration", go to "Administrative Templates" → "Classic Administrative Templates" → "Google" → "Google Chrome"

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Classic Administrative Templates (ADM)	^	🧾 Google Chrome			
🗸 🚞 Google		Allows a page to perform		Setting	State
V 🚞 Google Chrome		synchronous XHR requests during			
Content settings		page dismissal.		Allow invocation of file selection dialogs	Not configure
🚞 Default search provider				Allow running plugins that are outdated	Not configure
Deprecated policies		Edit policy setting	^	Allows a page to show popups during its unloading	Not configure
Extensions				Allows a page to perform synchronous XHR requests during	Not configur
🧰 Google Cast		Requirements: Microsoft Windows 7 or later		Define domains allowed to access G Suite	Not configur
HTTP authentication		Wilcrosoft Windows / or later		📰 Enable alternate error pages	Not configur
📔 Legacy Browser Support		Description:		E Always Open PDF files externally	Not configur
Native Messaging		This policy allows an admin to		Enable Ambient Authentication for profile types.	Not configur
Password manager		specify that a page may send		Application locale	Not configur
Printing		synchronous XHR requests during		Allow or deny audio capture	Not configur
Proxy server		page dismissal.		E URLs that will be granted access to audio capture devices wi	Not configur
Remote access		When the policy is set to enabled,		Allow the audio sandbox to run	Not configur
Safe Browsing settings		pages are allowed to send		Enable AutoFill for addresses	Not configur
📔 Startup, Home page and New Tab page		synchronous XHR requests during		Enable AutoFill for credit cards	Not configur
🗸 🚞 Google Chrome - Default Settings (users can ov	e	page dismissal.			2
Content settings		When the policy is set to disabled		Allow media autoplay	Not configur
Deprecated policies		or not set, pages are not allowed		Allow media autoplay on a whitelist of URL patterns	Not configur
Password manager		to send synchronous XHR	V	Continue running background apps when Google Chrome i	Not configur
Printing	$\mathbf{v}$	requests during page dismissal.		Block third party cookies	Not configur

- 5. In "Google Chrome", select the "Allow a page to perform synchronous XHR requests during page dismissal." setting.
- 6. In the "Allow a page to perform synchronous XHR requests during page dismissal." window, select the "Enabled" radio button.
- 7. Select the "Apply" button. See screenshot below:

_	Allows a page to perform synchror	ous XHR requests during page dismissal. 🛛 🚽 🔿	×
	Allows a page to perform synchron	ous XHR requests during page dismissal. Previous Setting Next Setting	
	<ul> <li>Not Configured</li> <li>Comment:</li> <li>Enabled</li> <li>Disabled</li> <li>Supported on:</li> </ul>	Microsoft Windows 7 or later	< >
i	Options:	Help: This policy allows an admin to specify that a page may send synchronous XHR requests during page dismissal. When the policy is set to enabled, pages are allowed to send synchronous XHR requests during page dismissal. When the policy is set to disabled or not set, pages are not allowed to send synchronous XHR requests during page dismissal. This policy will be removed in Chrome 82. See https://www.chromestatus.com/feature/4664843055398912. Reference: https://cloud.google.com/docs/chrome- enterprise/policies/?policy=AllowSyncXHRInPageDismissal	^
		OK Cancel Apply	

#### Temporary workaround option 5 – Use Chrome Origin Trials

#### Get Token for Origin

- 1. Go to https://developers.chrome.com/origintrials/#/trials/active
- 2. Look for "Allow Sync XHR In Page Dismissal and select "Register"



- 3. Enter the web origin of the webpage containing the SigWebTablet.js file
- 4. Fill out the rest of the form as desired and select "Register"
- 5. Copy "Token" and add to code.

Registration for Allow Sync XHR In Page Dismissal						
Origin	www.sigplusweb.com					
Match subdomains	Yes					
Active Tokens						
Expiry	Created	Token				
Apr 21, 2020	Jan 22, 2020	Agjszsh0HN3VFQMblrKyrPPyvwxyLvqdibB/	Ū			
You must provide feedback to renew.						
RENEW	FEEDBACK		Î			

#### Add META Tag to HTML Page

Copy the "Token" and place it in a "meta" tag like the following within your webpage that utilizes SigWebTablet.js:

<meta http-equiv="origin-trial" content="\*\*insert your token as provided in the developer console\*\*">

#### Add META Tag to SigWebTablet.js

Copy the "Token" and set "meta.content" equal to the token in quotes:

```
var meta = document.createElement('meta');
meta.httpEquiv = "origin-trial";
meta.content = "**insert your token as provided in the developer console**";
document.getElementsByTagName('head')[0].appendChild(meta);
```