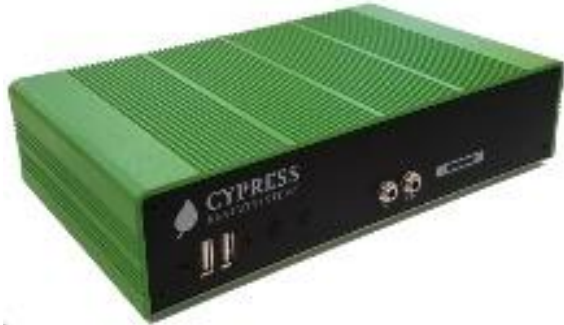




CYPRESS
ENVIROSYSTEMS™



Green Box Controller (GBC) Upgrade Program:

From GBC's running
Windows XP, Windows 7,
Windows 10 Pro

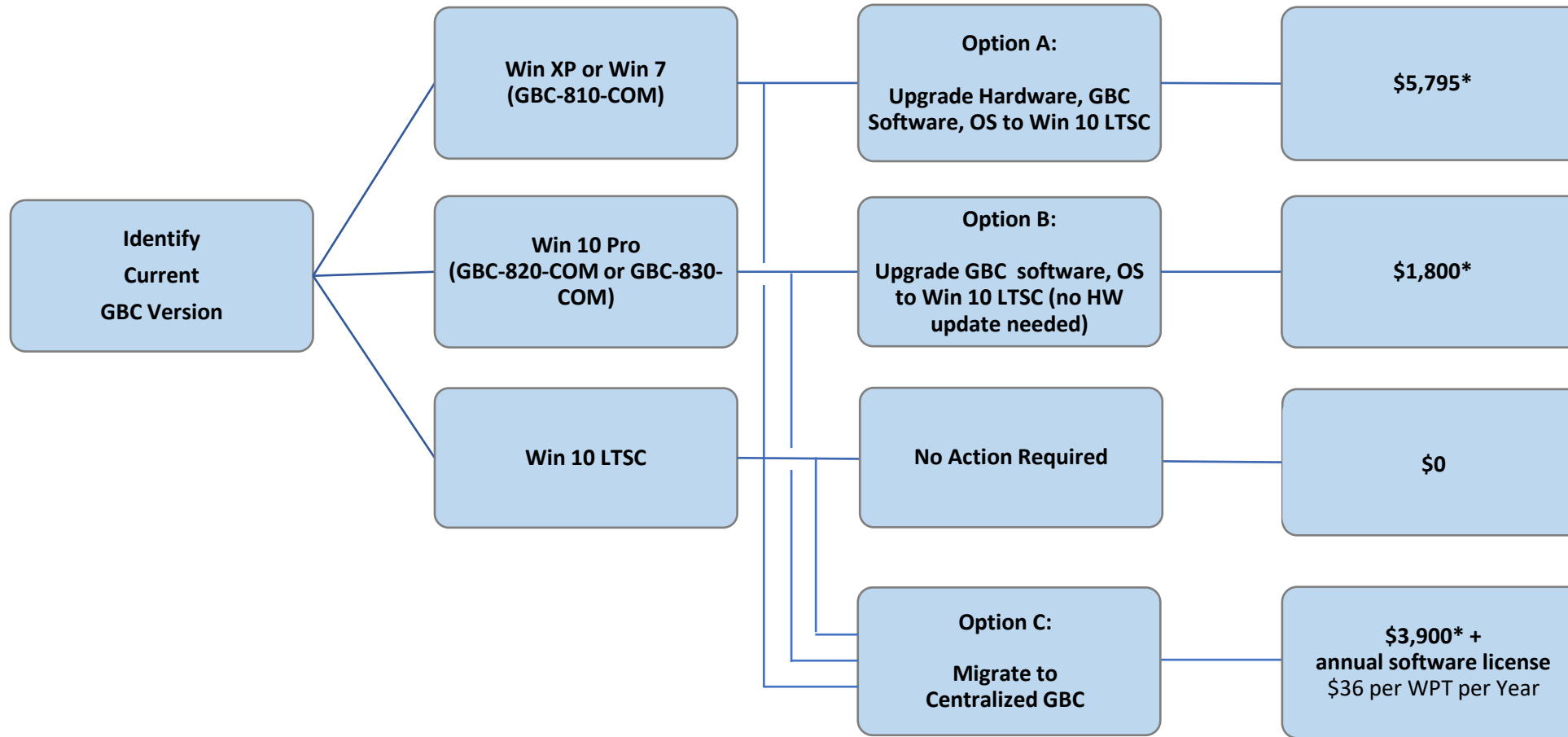
to Windows 10 IoT
Enterprise LTSC

November 2025

GBC Upgrade Program: Background

- The Green Box Controller (GBC) was first introduced by Cypress Envirosystems in 2010, as the controller for the Wireless Pneumatic Thermostat system.
- The GBC uses the Microsoft Windows operating system. Over the years, different versions of the GBC used Windows XP, Windows 7, and Windows 10 Pro.
- Official Microsoft support for these legacy operating systems has ended (read [here](#)). GBC's still running them will not receive Microsoft security and support updates and face potential security vulnerabilities.
- The latest GBC uses Windows 10 IoT Enterprise LTSC 2021, which Microsoft guarantees support until January 2032 (read [here](#)). Cypress Envirosystems offers an upgrade path for older GBC's to upgrade to the latest version.

GBC Upgrade Paths and Cost

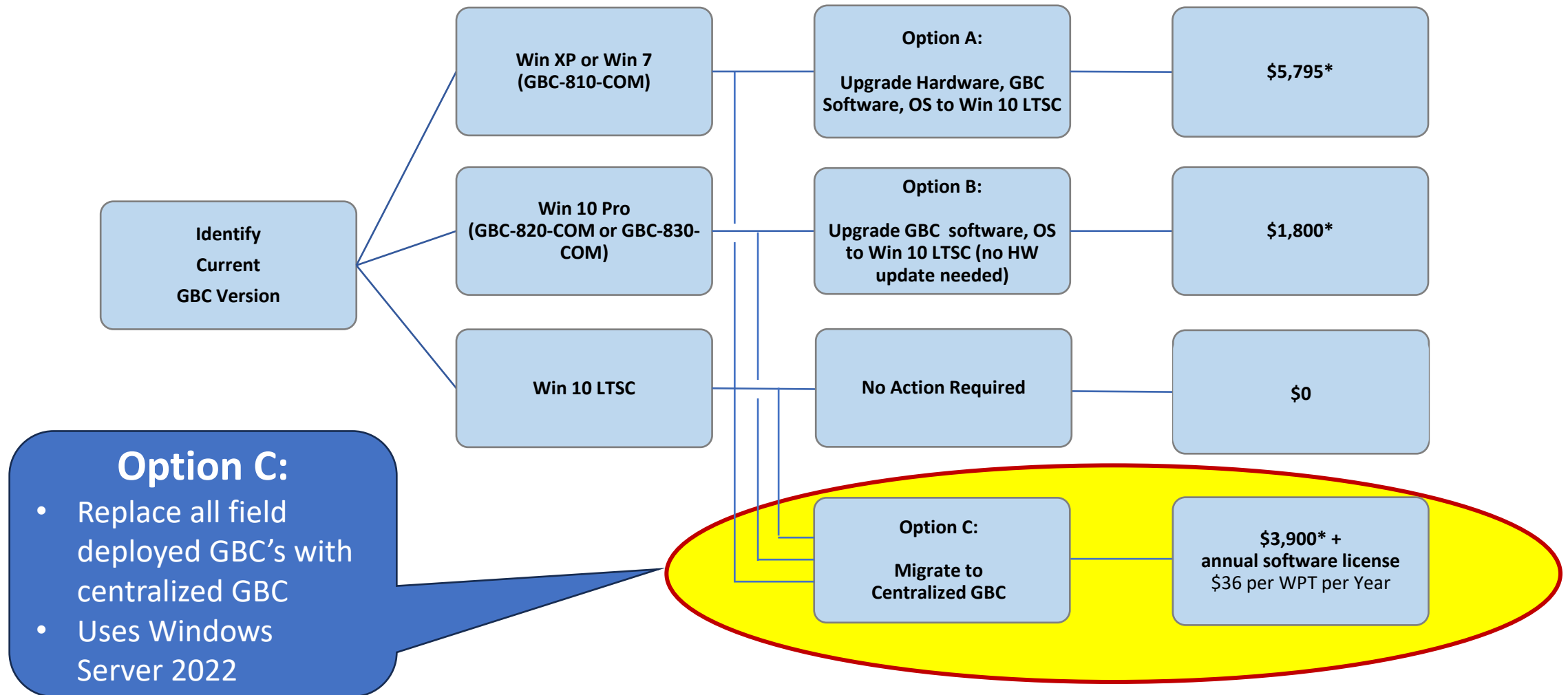


*Assumes auto-migration of existing database to new GBC. Additional \$1,000 fee if manual database migration needed (original database corrupted, infected with malware, or otherwise unrecoverable). \$1,000 manual migration is fee for up to 20 WPT. Fee for additional WPT's is \$60 each.

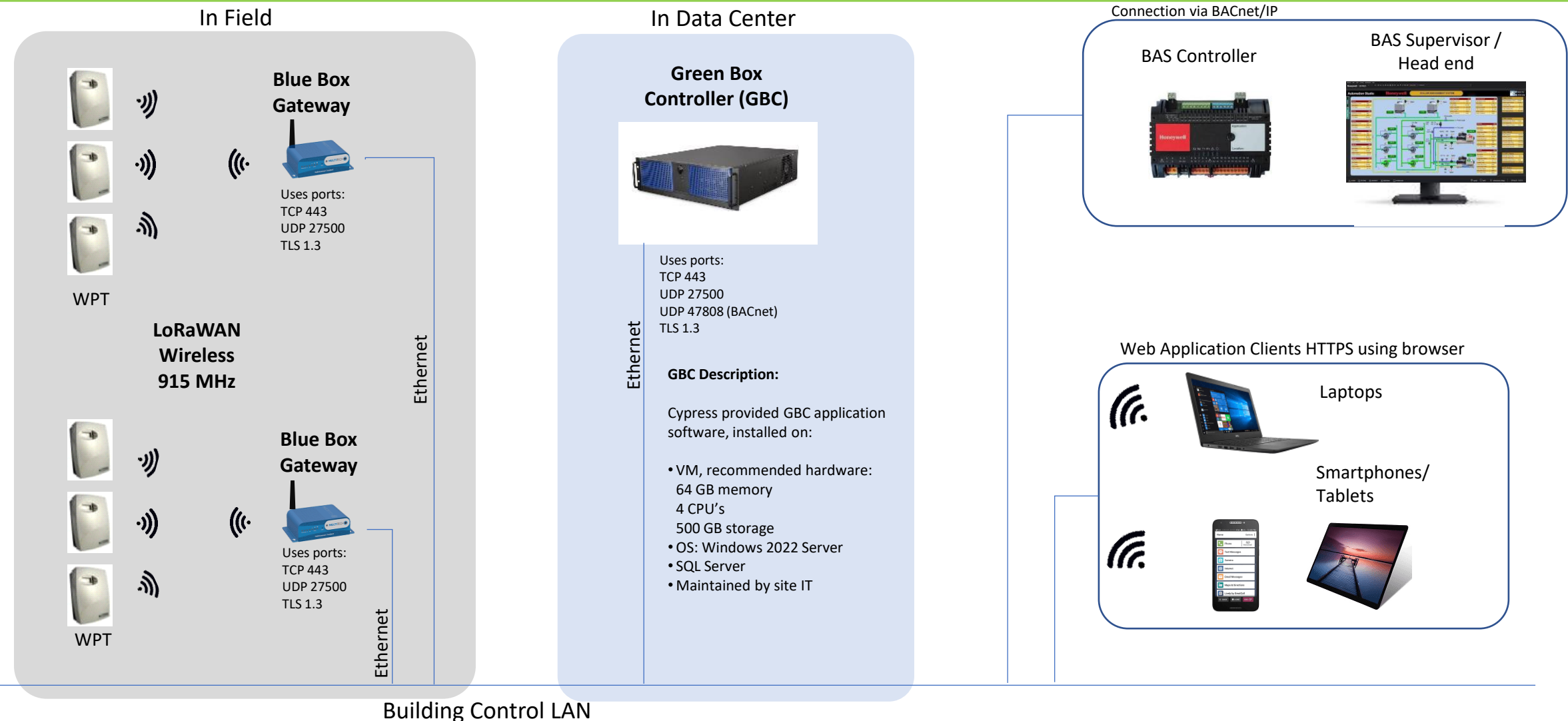
Win10 LTSC Description from Microsoft

- Read Microsoft release [here](#).
- LTSC: What is it, and when should it be used?
- The Long-Term Servicing Channel (LTSC) is designed for Windows 10 devices and use cases where the key requirement is that functionality and features don't change over time. Examples include medical systems (such as those used for MRI and CAT scans), industrial process controllers, and air traffic control devices. These devices share characteristics of embedded systems: they are typically designed for a specific purpose and are developed, tested, and certified before use. They are treated as a whole system and are, therefore, commonly “upgraded” by building and validating a new system, turning off the old device, and replacing it with the new, certified device.
- We designed the LTSC with these types of use cases in mind, offering the promise that we will support each LTSC release for 10 years--and that features, and functionality will not change over the course of that 10-year lifecycle.

GBC Upgrade Paths and Cost



Option C: Combine all field GBC's into a Centralized GBC



Option C – Centralized GBC Additional Information

- User will provision a Windows Server 2022 in their data center using the user Windows image (may be a VM).
- Cypress will provide the GBC software to be installed on the user provided server.
- Cypress price is for software ONLY. User provides the hardware and Win Server2022 operating system.
- Benefits:
 - Centralized GBC can support up to 1,000 thermostats/devices
 - Server will be managed under user IT organization for backups, updates, security
 - Housed in secure data center
- Requirements:
 - Obtain approval to connect Blue Box Gateway to user network (in addition to GBC)
 - User must provide Win Server 2022 with acceptable performance specifications
- Please discuss with Cypress if you would like to consider this option.

Optional SMARTPneumatics Upgrade (Subscription)

- SMARTPneumatics is an AI fault detection service, available for GBC's upgraded to Windows 10 LTSC or Windows Server 2022 (for Option C).
- SMARTPneumatics identifies common pneumatic system faults:
 - air leaks
 - calibration issues
 - stuck actuators
 - oil or water in air supply etc.
- Uses data stored on the GBC collected by Wireless Pneumatic Thermostats. Plots historical trends of pressure, temperature, setpoints etc.
- \$18 per Wireless Pneumatic Thermostat (WPT) per Year subscription.
- Only available for full site (cannot select for certain WPT's).