## Overview

#### Executable Details:

* **Executable Name:** FLEXroomSummerUpdates2024.exe
* **Location on SharePoint:**
  + **URL:** [ZoomUpdateFixer](https://rtcedu.sharepoint.com/teams/TheFLEXTeam/Shared%20Documents/Forms/AllItems.aspx?id=%2Fteams%2FTheFLEXTeam%2FShared%20Documents%2FCITL%20Power%20Shell%20Projects%2FZoomUpdateFixer&viewid=e9da7a58%2D64b4%2D402b%2Dbe39%2D6f5a5093ae43)
  + **Local Path:** \\rtcedu.sharepoint.com@SSL\teams\TheFLEXTeam\Shared Documents\CITL Power Shell Projects\ZoomUpdateFixer\FLEXroomSummerUpdates2024.exe

#### Purpose:

The executable is designed to automate updates and configurations for our FLEX classroom environments. Digital signing is required to ensure the script's integrity, authenticity, and to allow it to run on systems with stringent script execution policies.

#### Functions of the Executable:

1. **Update Applications:**
   * Zoom Client
   * Browsers: Chrome, Firefox, Edge
   * Microsoft Office Desktop Apps: PowerPoint, Word, Excel
2. **Update Device Firmware:**
   * Meeting OWL device
3. **Configure System Settings:**
   * Adjust mouse pointer size and color
   * Extend automatic screen timeout to 30 minutes
4. **Check and Update Plugins:**
   * Okta Plugin for Chrome and Firefox

#### Requirements for Digital Signing:

* **Certificate Authority:** [Specify if there is a preferred certificate authority]
* **Certificate Type:** Code Signing Certificate
* **Timestamp Server:** <http://timestamp.digicert.com>

This PowerShell script, FLEXroomSummerUpdates2024.ps1, is designed to streamline the process of updating various software applications, managing Meeting OWL firmware, and configuring system settings in FLEX classrooms. The script ensures that classrooms are equipped with the latest versions of essential applications and settings, enhancing the overall efficiency and functionality of our systems.

## Purpose

The primary purpose of this script is to automate the updates and configuration tasks in FLEX classrooms, ensuring consistency and saving time for IT staff. Digital signing is required to maintain the integrity and authenticity of the script, preventing unauthorized modifications and ensuring it can run on systems with stringent script execution policies.

## Script Functions

### 1. Update Applications

* **Zoom Client:** Updates the Zoom client to the latest version using winget.
* **Browsers:** Updates Google Chrome, Mozilla Firefox, and Microsoft Edge to the latest versions using winget.
* **Microsoft Office Desktop Apps:** Updates PowerPoint, Word, and Excel using the Office Click-to-Run client.

### 2. Update Device Firmware

* **Meeting OWL Device:** Checks the network connectivity of the Meeting OWL device and prompts for firmware updates using the OWL app.

### 3. Configure System Settings

* **Mouse Settings:** Configures the mouse pointer size and color to a larger, more visible scheme for better accessibility.
* **Automatic Timeout:** Extends the automatic screen timeout to 30 minutes to accommodate longer periods of inactivity during class sessions.

### 4. Check and Update Plugins

* **Okta Plugin:** Verifies and updates the Okta plugin in Google Chrome and Mozilla Firefox.

## Prerequisites

* **PowerShell 5.1** or later.
* **winget** (Windows Package Manager) installed.
* **Administrator Privileges:** Required to install updates and configure system settings.
* **Internet Connection:** Required for downloading updates and verifying connectivity.

## Script Execution

### Parameters

* **OwlDeviceIP:** The IP address of the Meeting OWL device. Default is set to 192.168.1.100.

### Functions

1. **Test-DeviceConnectivity:** Checks the network connectivity to the specified OWL device.
2. **Update-Applications:** Uses winget to update Zoom, browsers, and Microsoft Office apps.
3. **Update-AverU50:** Downloads and installs the latest firmware for the Aver U50 Document Scanner.
4. **Configure-MouseSettings:** Changes the mouse pointer size and color for better visibility.
5. **Extend-Timeout:** Extends the automatic screen timeout to 30 minutes.
6. **Check-OktaPlugin:** Verifies and updates the Okta plugin for Chrome and Firefox.

### Digital Signing

Digital signing is required to ensure the script's integrity and authenticity. A code signing certificate from a trusted certificate authority (CA) should be used to sign the script. This will prevent unauthorized modifications and allow the script to run on systems with script execution policies that require signed scripts.

**Steps for Digital Signing:**  
  
**Directory Location:**   
  
 **\\rtcedu.sharepoint.com@SSL\teams\TheFLEXTeam\Shared Documents\CITL Power Shell Projects\ZoomUpdateFixer\FLEXroomSummerUpdates2024.exe**

**https://rtcedu.sharepoint.com/teams/TheFLEXTeam/Shared%20Documents/Forms/AllItems.aspx?id=%2Fteams%2FTheFLEXTeam%2FShared%20Documents%2FCITL%20Power%20Shell%20Projects%2FZoomUpdateFixer&viewid=e9da7a58%2D64b4%2D402b%2Dbe39%2D6f5a5093ae43**