WPE - WifiControl Plugin

Wifi Protected Setup

JSONRPC Sequence for Application

| S.No | WPS Method | Scenario | API Sequence | Reply |
| --- | --- | --- | --- | --- |
| 1 | **Push Button Connect** | User Presses the push button on the AP and issues Scan Request | {  "jsonrpc": "2.0",  "id": 42,  "method": "WifiControl.1.scan" } |  |
| Scan Results received |  | {  "jsonrpc": "2.0",  "id": 42,  "result": [  {  "ssid": "MyCorporateNetwork",  "pairs": [  {  "method": "WPA",  "keys": [  "psk"  ]  }  {  "method: "WPS",  "keys": [  "pbc",  ]  }   ],  "bssid": "94:b4:0f:77:cc:71",  "frequency": 5180,  "signal": -44  }  ] } |
| Scan results contain information about AP with WPS Push button active. User calls Connect() | {  "jsonrpc": "2.0",  "id": 42,  "method": "WifiControl.1.connect",  "params": {  "ssid": "NETGEAR26",  "autoconnect":"pbc"  } } |  |
| WifiControl plugin receives the PSK from the router upon successful WPS completion. WifiControl plugin creates a new config with the PSK for the SSID and issues a Connect request |  |  |
| User receives Async connectionchange event with SSID on successful connection. Empty params in case WPS failed or Timed out. |  | {  "jsonrpc": "2.0",  "method": "client.events.1.connectionchange",  "params": "MyCorporateNetwork", } |
| In case of successful connection, User Stores the Current Config with the PSK received through WPS | {  "jsonrpc": "2.0",  "id": 42,  "method": "WifiControl.1.store" } |  |
| 2 | **Push Button Connect** | User Presses the push button on the AP and issues Connect request with out an SSID. Or the reverse. | {  "jsonrpc": "2.0",  "id": 42,  "method": "WifiControl.1.connect",  "params": {  "autoconnect":"pbc"  } } |  |
| WifiControl plugin receives the PSK from the router upon successful WPS completion. WifiControl plugin creates a new config with the PSK for the SSID and issues a Connect request |  |  |
| User receives Async connectionchange event with SSID on successful connection. Empty params in case WPS failed or Timed out. |  | {  "jsonrpc": "2.0",  "method": "client.events.1.connectionchange",  "params": "MyCorporateNetwork" (Empty In case of failure) } |
| In case of successful connection, User Stores the Current Config with the PSK received through WPS | {  "jsonrpc": "2.0",  "id": 42,  "method": "WifiControl.1.store" } |  |
| 3 | **Connect with Device PIN** | User Generates a random device PIN. | {  "jsonrpc": "2.0",  "id": 42,  "method": "WifiControl.1.getpin" } | {  "jsonrpc": "2.0",  "id": 42,  "params":"12345678" } |
| Display shows the random generated Device PIN on the Screen. |  |  |
| User issues Connect() with the Device PIN without the AP SSID. This will trigger WPS operation with the device PIN. | {  "jsonrpc": "2.0",  "id": 42,  "method": "WifiControl.1.connect",  "params": {  "autoconnect":"pin"  "pin":"12345678"  } } |  |
| User accesses the Admin page of router/AP and starts the WPS wizard to enter the device Pin to authenticate |  |  |
| WifiControl plugin receives the PSK from the router upon successful WPS completion. WifiControl plugin creates a new config with the PSK for the SSID and issues a Connect request |  |  |
| User receives Async connectionchange event with SSID on successful connection. Empty params in case WPS failed or Timed out. |  | {  "jsonrpc": "2.0",  "method": "client.events.1.connectionchange",  "params": "MyCorporateNetwork" (Empty In case of failure) } |
| In case of successful connection, User Stores the Current Config with the PSK received through WPS | {  "jsonrpc": "2.0",  "id": 42,  "method": "WifiControl.1.store" } |  |
| 4 | Connect with AP PIN | User issues Scan request | {  "jsonrpc": "2.0",  "id": 42,  "method": "WifiControl.1.scan" } |  |
|  |  | {  "jsonrpc": "2.0",  "id": 42,  "result": [  {  "ssid": "MyCorporateNetwork",  "pairs": [  {  "method": "WPA",  "keys": [  "psk"  ]  }  {  "method: "WPS"  }  ],  "bssid": "94:b4:0f:77:cc:71",  "frequency": 5180,  "signal": -44  }  ] } |
| User gets the Registrar Pin or Router PIN from the router/AP admin login. |  |  |
| User Issues Connect() with SSID of AP and Registrar PIN of the AP | {  "jsonrpc": "2.0",  "id": 42,  "method": "WifiControl.1.connect",  "params": {  "ssid": "MyCorporateNetwork",  "autoconnect":"pin"  "pin":"11234344"  } } |  |
| WifiControl plugin receives the PSK from the router upon successful WPS completion. WifiControl plugin creates a new config with the PSK for the SSID and issues a Connect request |  |  |
| User receives Async connectionchange event with SSID on successful connection. Empty params in case WPS failed or Timed out. |  | {  "jsonrpc": "2.0",  "method": "client.events.1.connectionchange",  "params": "MyCorporateNetwork" (Empty In case of failure) } |
| In case of successful connection, User Stores the Current Config with the PSK received through WPS | {  "jsonrpc": "2.0",  "id": 42,  "method": "WifiControl.1.store" } |  |