



Manufacturer: World Wide Programming B.V.  
Model: WWP Home Config v1.0 (complete system)  
Device Type: Home automation software

### CONTACT SUPPORT: (please fill out carefully)

|                  |                                                                                                                                                                                                                               |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COMPANY NAME:    | World Wide Programming B.V.                                                                                                                                                                                                   |
| SUPPORT CONTACT: | Leonel Geagea                                                                                                                                                                                                                 |
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| PHONE:           | +31 6 1512 5959                                                                                                                                                                                                               |
| ADDRESS:         | Rotterdam, the Netherlands                                                                                                                                                                                                    |
| NOTES:           | Website: <a href="https://www.worldwideprogramming.nl">https://www.worldwideprogramming.nl</a> . Support in English and Dutch; please include the processor model, firmware and the Status / License_Status text of WWP Core. |

### GENERAL INFORMATION

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SIMPLWINDOWS NAME: | WWP Home Config v1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CATEGORY:          | Home automation / Utility (framework)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| VERSION:           | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| SUMMARY:           | Complete, configurable home automation framework for Crestron 4-Series processors: a SIMPL# library (WwpConfig.clz), 20 SIMPL+ modules and a ready-made HTML5 / CH5 touch panel UI (WWP Panel UI). Rooms, lights, scenes, climate, airco, shades, AV, cameras, intercom, keypads, warnings and security are entered in a built-in web configuration on the processor - no SIMPL changes or program uploads are needed when the project changes.                                                                                                                                                                                                                                                                                                                                                                                                            |
| GENERAL NOTES:     | <b>ARCHITECTURE</b> <ul style="list-style-type: none"><li>- WwpConfig.clz (SIMPL#): configuration model, validation, web configuration server (port 8090), licensing, all room/scene/house logic.</li><li>- WWP Core: loads the configuration (/user/wwp/home.json) and hosts the web configuration. Exactly one per program.</li><li>- Bus modules (Light, Shade, Climate, Airco, AV, Misc, Monitor, Keypad, Source Control): the bridge to your hardware modules / drivers by hardware number (hw).</li><li>- Panel modules (Rooms, Lighting, Climate, Airco, Shades, AV, Remote, Extras, Cameras, Warnings): one set per touch panel, wired 1:1 to the smart objects of the WWP Panel UI.</li></ul> <b>INSTALLATION</b> <ol style="list-style-type: none"><li>1. Copy WwpConfig.clz and the WWP .usp / .ush files into the program folder (or</li></ol> |



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the user modules folder).

2. Add WWP Core, the bus modules for the hardware in the project and one set of WWP Panel modules per touch panel.
3. Connect the bus modules to your device drivers (lighting, shades, HVAC, AV, keypads ...). Wire the panel modules to the touch panel (CH5 contract, see table below).
4. Load the program and the WWP Panel UI (.ch5z) to the panels.
5. Open <http://<processor-ip>:8090/> and enter the project: buildings, floors, rooms, lights, scenes, climate, shades, AV, cameras, panels, keypads, monitoring. Save = applied immediately.
6. Enter the activation key under Activation (see Licensing).

#### **WEB CONFIGURATION**

Browser-based, on the processor itself. Validation before saving, automatic backups (last 10), import/export of the JSON file, optional password, per-panel settings (default room, visible systems, security page, call volume), language per panel (English / Dutch / French).

#### **PANEL UI (CH5)**

Home screen with house scenes and outside temperature, floor and room selection (up to 3 buildings), lighting with scenes, climate and airco with overview, shades, TV / audio with on-screen remote, cameras, intercom with door video, media player (MSOR), security page (passthrough, 250 zones, 8 modes, keypad), device warnings, fireplace and garage door. Dock tabs hide automatically when a system is not used on that panel.

#### **BUILDINGS**

Up to 3 buildings per project, each with its own floors and rooms (max. 100 rooms in total). Visibility per building per panel is set in the web configuration. "All off" switches all buildings.

#### **SECURITY**

The security page is a pure signal passthrough between the panel and your security system module (smart object 19). WWP adds no alarm logic. Visibility per panel from the web configuration (WWP Panel Extras: Security\_Visible).

#### **WHAT STAYS IN SIMPL**

Device drivers, VoIP / SIP intercom logic and the media player (MSOR / CRPC) connections remain standard SIMPL - the WWP modules only provide the panel signals.

#### **LICENSING**

Licensed per processor. After the first start the software runs fully for 7 days (trial). An activation key from WorldWideProgramming is bound to the processor MAC address and the license tier: S (up to 15 rooms, 1 building), M (up to 40 rooms, 1 building), L (up to 100 rooms, 3 buildings). The key is checked locally on the processor (digital signature) - no internet connection required. Without a valid key the panel controls are locked; keypads and the rest of the SIMPL program keep working. WWP Core reports Licensed and License\_Status.

#### **START-UP BEHAVIOUR**



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|                                    |                                                                                                                                                                                                                                                                                                                                                                                                           |
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|                                    | No commands are sent to devices at boot; only state and names are published once the configuration is loaded.                                                                                                                                                                                                                                                                                             |
| <b>CRESTRON HARDWARE REQUIRED:</b> | 4-Series control system (developed and tested on RMC4). 3-Series is not supported.                                                                                                                                                                                                                                                                                                                        |
| <b>SETUP OF CRESTRON HARDWARE:</b> | 4-Series control system. Copy WwpConfig.clz next to the .smw program, add WWP Core once, then add the WWP modules you need. Load the program, open the web configuration ( <a href="http://&lt;processor-ip&gt;:8090/">http://&lt;processor-ip&gt;:8090/</a> ) and enter the rooms, devices and panels. Load the CH5 project (.ch5z) to each touch panel with Crestron Toolbox or the CH5 archive deploy. |
| <b>VENDOR FIRMWARE:</b>            | N/A - software module (no third-party device).                                                                                                                                                                                                                                                                                                                                                            |
| <b>VENDOR SETUP:</b>               | Web configuration on <a href="http://&lt;processor-ip&gt;:8090/">http://&lt;processor-ip&gt;:8090/</a> . Panel UI: load the WWP Panel UI (.ch5z, demo: WWPInterfaceDemo_v1.ch5z) to a TSW-70 / TS-70 series panel (or any CH5-capable panel / Crestron One). The UI scales to the panel resolution.                                                                                                       |
| <b>CABLE DIAGRAM:</b>              | N/A - logic module, no device connection.                                                                                                                                                                                                                                                                                                                                                                 |

## MODULES INCLUDED:

| <u>Module</u>               | <u>Qty</u> | <u>Purpose (Qty: 1 = once per program, P = once per touch panel, B = per hardware block / as needed)</u>                                                                  |
|-----------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WWP Core v1.0</b>        | 1          | Heart of WWP Home Config.                                                                                                                                                 |
| <b>WWP Light Bus v1.0</b>   | B          | Connects WWP Home Config to your lighting system.                                                                                                                         |
| <b>WWP Shade Bus v1.0</b>   | B          | Connects WWP Home Config to motorised shades, blinds and curtains: open / stop / close pulses and a position output per hardware number, with optional position feedback. |
| <b>WWP Climate Bus v1.0</b> | B          | Connects WWP Home Config to the climate controllers of the rooms: setpoint and heat / cool mode out, setpoint, temperature, mode and actual heating / cooling state back. |
| <b>WWP AV Bus v1.0</b>      | B          | Connects WWP Home Config to TV or audio zones: power, source, volume and mute per zone (hardware number), with feedback.                                                  |
| <b>WWP Misc Bus v1.0</b>    | B          | Connects WWP Home Config to fireplaces (on / off / flame level) and garage doors (open / close) - 20 of each.                                                             |
| <b>WWP Monitor Bus v1.0</b> | B          | Device monitoring: one online input per device.                                                                                                                           |



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| <b>WWP Keypad Bus v1.0</b>     | B | Connects up to 20 keypads (12 buttons each) per instance to WWP Home Config.                                                                                                                |
| <b>WWP Airco Bus v1.0</b>      | B | Connects WWP Home Config to air-conditioning units: power, fan speed and mode per unit, with optional feedback.                                                                             |
| <b>WWP Source Control v1.0</b> | B | Remote control keys for one source device (Apple TV, cable box, Blu-ray ...).                                                                                                               |
| <b>WWP Panel Rooms v1.0</b>    | P | Room routing for one touch panel (contract smart object RoomSelect).                                                                                                                        |
| <b>WWP Panel Lighting v1.0</b> | P | Lighting control of the routed room for one touch panel (contract smart objects Lighting and LightingScenes): up to 20 fixtures and 8 room scenes, including saving a scene from the panel. |
| <b>WWP Panel Climate v1.0</b>  | P | Climate of the routed room and the climate overview of all rooms for one touch panel (contract smart objects Climate and ClimateOverview).                                                  |
| <b>WWP Panel Airco v1.0</b>    | P | Air-conditioning of the routed room and the airco tiles in the climate overview for one touch panel (contract smart objects Airco and AircoOverview).                                       |
| <b>WWP Panel Shades v1.0</b>   | P | Shades of the routed room for one touch panel (contract smart object Shades): up to 20 shades with open / stop / close and position.                                                        |
| <b>WWP Panel AV v1.0</b>       | P | TV or audio of the routed room for one touch panel (contract smart object TV with Kind 1, Audio with Kind 2): power, source selection (up to 30 sources) and volume.                        |
| <b>WWP Panel Remote v1.0</b>   | P | On-screen remote for the source on the TV of the routed room (contract smart object SourceControl).                                                                                         |
| <b>WWP Panel Extras v1.0</b>   | P | Fireplace and garage door of the routed room, house scenes and All off, media player routing and Security visibility for one touch panel.                                                   |
| <b>WWP Panel Cameras v1.0</b>  | P | Cameras, intercom stations, door video and call volume for one touch panel (contract smart objects Cameras and Intercom).                                                                   |
| <b>WWP Panel Warnings v1.0</b> | P | Device warnings for one touch panel (contract smart object Warnings): up to 100 active warnings with device, message and time, shown as a red button and pop-up on the panel.               |

## PANEL CONTRACT (CH5 SMART OBJECTS):

|                       |    |                                                                                   |
|-----------------------|----|-----------------------------------------------------------------------------------|
| <b>1 - RoomSelect</b> | SO | Room routing, room names, systems per room, buildings. Wired to: WWP Panel Rooms. |
| <b>2 - Lighting</b>   | SO | Fixtures of the routed room. Wired to: WWP Panel Lighting.                        |



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|----------------------|-----------------------------------------------------------------------------------------------------------------|
| 3 - LightingScenes   | SO Room scenes, All on / All off, save scene. Wired to: WWP Panel Lighting.                                     |
| 4 - Climate          | SO Climate of the routed room. Wired to: WWP Panel Climate.                                                     |
| 5 - Shades           | SO Shades of the routed room. Wired to: WWP Panel Shades.                                                       |
| 6 - TV               | SO TV of the routed room. Wired to: WWP Panel AV (Kind 1).                                                      |
| 7 - Audio            | SO Audio of the routed room. Wired to: WWP Panel AV (Kind 2).                                                   |
| 8 - Fireplace        | SO Fireplace of the routed room. Wired to: WWP Panel Extras.                                                    |
| 9 - GarageDoor       | SO Garage door of the routed room. Wired to: WWP Panel Extras.                                                  |
| 10 - House           | SO House scenes, All off, outside temperature. Wired to: WWP Panel Extras.                                      |
| 11 - Cameras         | SO Camera grid and full-screen video. Wired to: WWP Panel Cameras.                                              |
| 12 - Intercom        | SO Call pop-up, door video, stations, volume. Wired to: WWP Panel Cameras + your VoIP logic.                    |
| 13 - MediaPlayer     | SO Crestron media player (MSOR / CRPC). Wired to: WWP Panel Extras + MSOR.                                      |
| 14 - ClimateOverview | SO All rooms: temperature, setpoint, heat / cool. Wired to: WWP Panel Climate.                                  |
| 15 - Warnings        | SO Device warnings pop-up. Wired to: WWP Panel Warnings.                                                        |
| 16 - SourceControl   | SO On-screen remote of the source on the TV. Wired to: WWP Panel Remote.                                        |
| 17 - Airco           | SO Airco of the routed room. Wired to: WWP Panel Airco.                                                         |
| 18 - AircoOverview   | SO Airco tiles in the climate overview. Wired to: WWP Panel Airco.                                              |
| 19 - Security        | SO Security page: status, keypad, modes, zones. Wired to: Your security module (Visible from WWP Panel Extras). |



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## LIMITS / CONFIGURATION:

|                             |                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------|
| Rooms                       | S/M/L 15 / 40 / 100 rooms                                                       |
| Buildings                   | S/M/L 1 / 1 / 3                                                                 |
| Touch panels                | - Up to 50 (Panel_Number 1-50)                                                  |
| Lights / shades per room    | - 20 / 20                                                                       |
| Room scenes / house scenes  | - 8 / 5                                                                         |
| AV sources                  | - 30                                                                            |
| Cameras / intercom stations | - 16 / 10                                                                       |
| Keypads                     | - 200 (12 buttons each)                                                         |
| Hardware numbers            | - Lights 1000, shades 400, climate 100, airco 100, AV 100, misc 20, monitor 200 |
| Security zones              | - 250 (passthrough)                                                             |
| Warnings                    | - 100 active device warnings                                                    |
| Languages                   | - English, Dutch, French (per panel)                                            |
| Web configuration port      | - Default 8090 (home.web_port)                                                  |
| Configuration file          | - /user/wwp/home.json (WWP Core File_Path)                                      |

## TESTING: (please fill out carefully)

|                                  |                              |
|----------------------------------|------------------------------|
| OPS USED FOR TESTING:            | RMC4 - firmware 2.8005.00031 |
| SIMPL WINDOWS USED FOR TESTING:  | 4.3200.02.01                 |
| DEVICE DB USED FOR TESTING:      | 200.470.001.00               |
| CRES DB USED FOR TESTING:        | 228.60.002.00                |
| SYMBOL LIBRARY USED FOR TESTING: | 1244                         |



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**SAMPLE PROGRAM:**

WWP Software-InterfaceDemo (touch panel: WWPIInterfaceDemo\_v1.ch5z,  
contract WWPIInterfaceDemo.chd)

**REVISION HISTORY:**

v1.0 - initial release.