

FP Web-Server Configurator Software

Information you need to know before using the software (mandatory reading)

About FP Web-Server Configurator

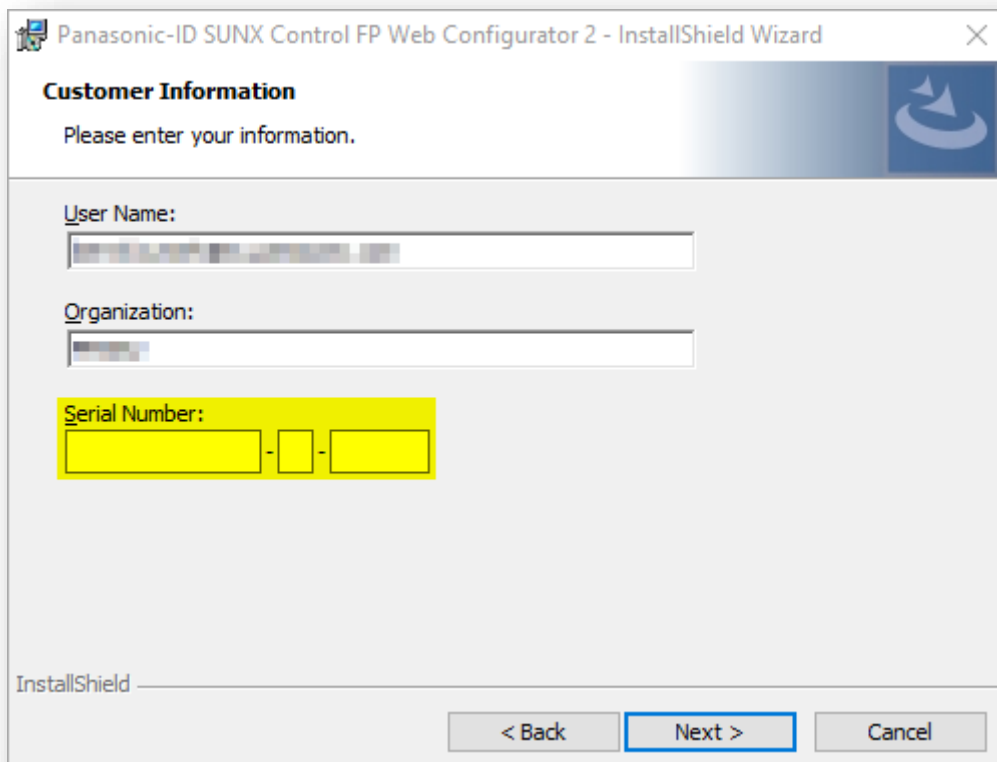
This software works as update for an existing installation

or

Is a full release who needs a serial number (license) for installation.

The serial number is sold digitally as a product with the product no.:
FPWEBCONFIG_LICENSE.

The installation window looks like this:



To order a serial number (license), please contact your local Panasonic sales representative.

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System Requirements

The FP OPC Server is designed to run on a standard Windows® 10_(32bit/64bit) computer.

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FP WEB Configurator Tool Update Notes

FP WEB Configurator Tool version 2.842 update notes (Feb., 2019)

Bugfix:

- Fixed a problem where the FPWEB2 was not able to be found anymore in the network.

FP WEB Configurator Tool version 2.841 update notes (Sep., 2018)

Enhancement:

- Improved the Multiconnect port server feature with more detailed information from the remote devices which can be written into the PLC.
- Increased task memory for Multiconnect Transparent port server.
- A new timeout for the login process helps for more stability (Multiconnect Transparent port server).
- Extended status messages for Multiconnect Transparent port server.
- Better error message for missing SSL certificate if the file is missing (for E-Mail sending via SSL).
- Changed some text in Modbus TCP Wizard.

Bugfix:

- FTPC: In combination with datalogger and USB driver a problem has been solved where the application crashed.
- Fixed GVL (global variable list) import for changed variable "g_aiFPWEB_FTPC_Control".
- Fixed missing handling of FTP dynamic port.
- Fixed a timeout issue during login (Multiconnect Transparent port server).
- Fixed a problem where during loading of Splash the application crashed.
- Fixed a problem where the SNMP sometimes translated the write command wrongly.
- Fixed a problem when reading same data registers via CGI it can happen that other registers were not read anymore.

FP WEB Configurator Tool version 2.840 update notes (Feb., 2018)

Modbus TCP:

- New functionality with flexible range settings for PLC offset table. The DT area can be divided into max. three areas with read or read/write rights. Areas which will not be used can be deactivated.

Enhancement:

- FTP transfer problems during sending a project or backup will now show additionally the reason of failure.
- The WebConfigurator will now show the tabs where duplicated addresses are used (overlapping addresses).

Bug fix:

- IEC60870: After saving a project with the IEC60870 function activated (in version 2.831) the FP Web Configurator used to freeze. This problem has been fixed
- Config COM: When a project was opened and Config COM checkboxes were activated in version 2.831 and a new project was generated, the same checkboxes were also activated for the new project. This problem has been fixed.
- FPWebScript: A problem where the FP Web Configurator would freeze if the Script file had been edited externally and the project was saved without opening the FPWebScript tab has been fixed.
- Ports: A problem with the idle timeout of the 3-pin RS232 interface has been fixed.

- Example KW2M-A RS485: A problem where data from different station numbers were not read has been fixed.
- Sending project: A problem where the "archivereader" was sent without a FPWebDesigner project has been fixed.
- OpenVPN: A problem where the connection could not be established using the USB port as PLC interface has been fixed.
- HTTP Client: A problem where a wrong post string was send by using dynamic server name or ip has been fixed.

FP WEB Configurator Tool version 2.831 update notes (August, 2017)

Improvement:

- CGI function to read the filenames which are set in data logger

Bug fix:

- GT707: Initialize command via Expansion USB freezes when download the project -> fixed
- GT general: Initialize command via USB will freeze when download the project -> fixed
- Datalogger: Changing the station number in Ethernet logging won't enable the "OK" button -> fixed
- IEC60870 tab: Can't clear ASDU address to enter a new one -> fixed
- Modbus TCP - Mewtocol gateway: Addresses above 32k were translated wrong -> fixed
- Modbus TCP - Mewtocol7 gateway: Writing register(s) brings back an error even it was correct -> fixed
- Datalogger: When files were deleted the Configurator didn't ask if the project should be saved -> fixed
- Datalogger: If a field in the settings was empty and "Cancel" is clicked, an error message will be shown instead of closing -> fixed

FP WEB Configurator Tool version 2.830 update notes (February, 2017)

HTTP Server:

- Added predefined Offline Trend page for simple use

New Examples:

- Example for KW2M through RS485 and Ethernet

Bug fix:

- SNMP file will not be send to FP Web Server -> fixed
- USB Communication with GT707 freezes -> fixed
- Modbus RTU with RS485 and parity NONE -> stopbit will be set wrong -> fixed
- Http client always send 2 CR+LF at beginning -> fixed
- FPWebDesigner pages were not shown in iOS Safari -> fixed

FP WEB Configurator Tool version 2.820 update notes (November, 2016)

FTP:

- Added the possibility to set the FTP Server port instead of only using the default port of 21

HTTP Server:

- CGI supports 64bit values

Modbus TCP:

- Modbus TCP to RTU gateway for holding registers

Bug fix:

- CGI: 64bit data with decimal points were mostly shown wrong on html pages
- FPWebDesigner showing white pages

FP WEB Configurator Tool version 2.810 update notes (August, 2016)

GT707:

- USB compatibility

FPWebDesigner:

- Creating new project or save opened project will generate a new folder "FPWebDesigner"
- After send the *.arv file of FPWebDesigner project a restart is necessary

Data logger:

- Added the possibility to use Middle and Mixed Endian (byte order) for 32bit data

FTP:

- Added file operations: read and replace a text line
- Implemented the new operations into the example "Example - FTP and Datalogging"

Improvements:

- Updated the function blocks of the FP Web-Server library for FPWIN Pro for the new functionalities.
- Example KW9M has been updated (layout)

Bug fix:

- CGI string transmission created a wrong telegram
- HTTP client post big data size (>300 characters) will lead to cut the string
- Set data logger data type to real or binary will lead to wrong type
- HTTP client: In some cases it will write a greater string size than allowed

FP WEB Configurator Tool version 2.801 update notes (April, 2016)

Bug fix:

- FPWEBScript button "Edit Script" opens sometimes the file "mail_0.txt"
- Sending projects sometimes pop up the window for entering the username and password without reason
- Reading strings with the length 0 leads to wrong reading command (HTML pages with plc string)

Enhancement:

- XML files with plc data can be shown now in the browser as well (instead of error page)
- JSON files are accepted with plc data

FP WEB Configurator Tool version 2.800 update notes (February, 2016)

Data logger:

- Added Modbus TCP logging

FPWEB Script:

- Added Modbus TCP interface for the function FPWEB_COPY_DT
- Read DTs (except interface "intern") up to 65k
- Station address greater than 99 is allowed

FTP:

- Added dynamic server name or IP option
- FTPS available

Minor Changes:

- Example for KW1M and KW9M have been modified for KW Watcher
- Added additional input to HTTP client function block (Receive Timeout)
- SNMP can handle 500 data register instead of 200 now (data exchange with PLC)

Bug fix:

- SNMP trap was always enabled
- SNMP user table view was wrong
- FPWEBScript settings got lost in some cases
- FPWEBScript interface port was used wrongly in some cases

FP WEB Configurator Tool version 2.710 update notes (July, 2015)

Project File:

- Projects do not use the name fix "FP-Web.fpw" anymore. Instead the project name is used (ProjectName.fpw).
- This project file will now contain the information of which settings to send ("Configuration", "Web files", "Send via FTP passive mode" and "Clear PLC retain area").

Data Logging:

- Totally 700 tags can be logged (in one file or separated in several files).
- New user friendly variable list handling to add variables to the log list.
- Modbus RTU addresses can be used until 65k.
- Modbus RTU function 0x04 (Read input registers) can be used now.
- Endianness selector
- Added minute splitting.

Example:

- Added HTML5 example with visualizations, trends and graphs.

Small Changes:

- If the project has been changed and the user closes the program, it will now ask "Save project?" instead of "Exit without saving?".
- If the help file is opened, this file is always in focus even if the FPWebConfigurator is selected. This has been changed so that the FPWebConfigurator will get focused if it has been selected.
- Variable setting for the Clock registers for FP7.

Bug-fixes:

- "Smart read-request merger": If only two registers which are next to each other (e.g. DT100 and DT101) will be requested, only the first one will be read.
- FPWebEXP: Download a PLC program using the USB port through a GT panel was not possible.
- An empty IP entry for server in HTTP client section will cause a wrong message.
- "Smart read-request merger": In some cases PLC values and strings were not shown on the Web page.
- FTP Client: A buffer was wrongly declared which causes problems with data logger.
- Save As: This option didn't save the log files and script file.
- Data Logger trigger type "Condition": This bit was read from the station number which was set for the data point.
- CGI: Strings in form of Array of Words were shown wrong.
- Compare: Wrong parameter.
- RS232 9Pin: If hex characters 0x00 are send together with data, only data until the first 0x00 char will be send.

- Backup & Import: The Backup function didn't save all files of project and the Import function didn't import all files from the Backup folder.
- HTML and XML files with PLC data: The FPWebConfigurator crashes if the end tag ">" of a PLC data is missing.

FP WEB Configurator Tool version 2.700 update notes (October, 2014)

New features:

- Security settings (like username, passwords, iplock etc.)
- IEC60870 settings
- data logger log file settings
- FPWEB Script file
- Email texts

Compare function:

- At the "Project" tab you can find a button "Compare". It compares the current opened project with the remote unit.
- Not all parameters will be compared. Here is a list with the parameters which will NOT be compared:

CGI "Smart read-request merger":

- Performance improvement for visualizations in HTML pages and FPWebDesigner pages
- Data register (DTs) and Relays (R, X or Y) will be read in one read request if the addresses are in range
- Address Ranges
- Mewtocol: 26 Words (for DTs and Relays)
- Modbus RTU: 26 Words (for register and relays)
- Mewtocol7: 1019 Words DT and 26 Words Relay
- Example: FPWebDesigner with visualization using DT100, DT101, DT110, DT120, DT121, DT122 and DT125 (Protocol: Mewtocol). These 7 registers will be read by FPWebServer in one request instead of 7.
- So try to use the data register you want to visualize in sequence to get the
- best performance

SNMP:

- SNMPV2c supported
- Getbulk functionality with max. 50 repetitions
- improved error handling
- Send SNMPV2c traps

Mewtocol7:

- The FPWebConfigurator has now an additional protocol to select (Mewtocol7)
- Following functionalities can be used with Mewtocol7:
- Email
- HTML sites with the syntax e.g. {DT500000_6_i}
- Javascript and Ajax with the syntax %@EEE00_00..... (the '%' will be changed to '>' and '_' will be changed to '#' internally)
- VPN Client
- Time
- SNMP
- Datalogger
- FTP Client
- HTTP Client
- Ports (remote control, plc test etc.)
- USB interface can also use Mewtocol7
- Autobaud

Example - Configuration via HTTP:

- Added the possibility to set the PLC interface
- Added Mewtocol7 selection
- Added HTTP client setting site

Bugfixes:

- Datalogger: If bits were logged the program runs into an endless loop.
- Datalogger: Creating file bit(s) was/were polled even if the log file was disabled.
- HTTP client: If "use dynamic server" is used the server address still needed to be entered. If the entered server name was not correct it will cause an error.
- FPWebScript: Error flag was not reseted internally. This causes to failure in some cases.
- Datalogger: If trigger type "Condition" is used the condition bit was read from the log interface instead of the plc interface.
- SNMP: Wrong internal counting if using user-defined MIB
- Config: The port for transparent client shown in "summary of enabled functions" was not correct
- Datalogger: Midnigth checkbox was always enabled
- USB port: If a project was made in version 2.5xx and USB port was used or plc port is selected to USB then the project was not valid.
- HTTP client: IIS7 Servers does not close the connection to the client. So the client has to close the connection.
- Example KW1M & KW9M time settings: Write time to FPWEB2 was wrong (DST)
- Example KW9M: Minor bug fixes

*Small changes:

- Added FTP Function "Read file from FTP server to SD card".
- If change plc interface from RS232 or USB to RS485 and the station number was set to "EE" then no more error message will appear. The station number will be changed to 1 automatically.
- The Backup and Restore buttons are now merged to one button called "Back%Res". If clicking on it a small window will pop up with the two buttons Backup and Restore. A small text is also shown to tell the user what will be done if he press Backup or Restore.

FP WEB Configurator Tool version 2.600 update notes (March, 2014)

If you want to hold any older version on your PC just create a copy of it in a different folder. The setup will overwrite all data of the install folder.

New features for FP-WEB2 unit:

Global:

- The PLC device communication port and protocol is user specified (MEWTOCOL, Modbus RTU). In this case HTML pages, the email control register and almost all functions of the FPWEB2 can be used with other PLCs and units (expect IEC60870).

PPP:

- Improvement of the DNS support.

HTTP Client (cloud connection):

- HTTP Client general functionality (GET and POST).
- Send data to a cloud server (with POST).
- Proxy settings can be used.

FPWEB Script (FPWEB Standalone):

- The FPWEB Script allows to use the FPWEB unit stand-alone and to run expanded functions.
- The script is similar to the Structured Text of the FPWIN Pro.

- The function FPWEB_FTP sends data actively from the FPWEB unit to the specified FTP server.
- The function FPWEB_EMAIL sends data actively from the FPWEB unit to the specified recipient.
- The function FPWEB_PPP allows the function FPWEB_FTP to start a PPP connection if data has to be sent.
- The function FPWEB_COPY_DT allows the function FPWEB_FTP to start a PPP connection if data has to be sent.
- The function FPWEB_SET/GET_DT allows to control the FPWEB internal clock.
- The function FPWEB_SET/GET_IP allows to control the FPWEB Ethernet interface.
- The functions FPWEB_SET/GET_CLOCK... allows to control the FPWEB internal clock.
- The function FPWEB_SLEEP allows to define the script speed.
- The function FPWEB_ECHO allows to print debugging messages in an open telnet session.
- The function FPWEB_GET_VERSION returns version numbers of the FPWEB unit.
- The IF...THEN...END_IF statement is implemented.
- Internal relays R[0...4095] and DT[0..32767] and system DT[90000..90099] are implemented.

Data Logging:

- Individual data logging formats (e.g. for KW-Watcher).
- Additional option to preset the target file for the midnight value.
- Optimized time synchronization for KWxM (removed sending of the 5th setting word (30 sec. adjustment) if addressed < DT100).
- Bugfix in Data logging: SD card memory notification was sent in any case, even if it was disabled.
- Individual source for each datapoint.

Multiconnection port client (GPRS-LinkManager):

- The new option "Transfer data to/from PLC memory instead of RS232C port" makes it possible to send and receive data to and from the PLC's memory instead of the 9-pin RS232C port of the FP Web-Server. This works similar to the functionality of the standard transparent client.

IEC60870:

- New configuration design of the IEC60870 tab.
- The PLC status (run/stop) can be used to connect/close the IEC60870 connections.
- IP lock security is implemented. Only defined IP addresses can connect to the unit.
- The IP addresses are now linked to a defined buffer.
- Up to four connections can be used.

Improvements:

- The Autobaud can be used simultaneously for RS232 and RS485 if it is used with MEWTOCOL.
- In combination with the FPWEB Script the internal data register can be addressed directly in web pages and in the FPWEB Script with the data type WI (16Bit) or DWI (32Bit).
- The new web page calling parameter &l=x allows to select the interface for the current browser's request.
- A new HTML command allows to read the existing file names of the log folder.
- The email attached file can now specified with up to 64 characters.
- All examples are updated.

Bugfixes:

- Find and replace the IP address of a FPWEB unit via broadcast was not working well on some computers.
- IEC60870 sequence counter control is updated.
- The FTP client file transmission feature has to be improved for some FTP server.

- DNS support of the PPP connection.

FP WEB Configurator Tool version 2.501 update notes (January, 2013)

New features for FP-WEB2 unit:

Bug fixes:

- Wrong port number selection for TCP client function

FP WEB Configurator Tool version 2.500 update notes (January, 2013)

New features for FP-WEB2 unit:

(New features and bug fixes will not be compatible nor tested with FP-WEB unit version 1 anymore)

OpenVPN

- An OpenVPN connection can be realized as client or server. OpenVPN is a fully featured SSL VPN which implements OSI layer 2 or 3 secure network extension using the industry standard SSL/TLS protocol. For detailed information, also refer to the OpenVPN community: <http://openvpn.net/howto.html>.

• Global variable list for FPWIN Pro

- A new GVL button shows the currently used global variables in a list view. These variables can be saved in CSV file format for further use in the FPWIN Pro project.
- The GVL import function enables importing modified variable addresses from an FPWIN Pro global variable CSV file into the FP Web Configurator project.

FP Web-Server library for FPWIN Pro

- The PEW_FPWEB library will be installed in the FPWIN Pro libraries folder. This library eases commissioning of the FP-WEB2 unit with the respective PLC program. For more information, please refer to the library's online help.

HTTP server functions: CGI interface

- The FP Web-Server can now be rebooted via the CGI interface.
- The FP-WEB2 system time can be retrieved and set via the CGI interface.
- The default PLC address can be changed for subsequent POST commands.
- The HTML password and user name can be changed via the CGI interface.
- HTML pages can access files on the expansion unit's SD card.

Transparent client port

- The UDP multipoint can now use separate port numbers for client and server ports.

FTP client/expansion unit options

- New mode FTP "anonymous" for FTP download without password (only active for drive B:).
- FTP client mode "P" with additional option to check for existing files on the SD card.

SNMP agent

- Added functionality to use flexible SNMP MIB structure when a SNMP.ini file is placed in the project folder. Otherwise, the default snmp.ini file (10DDT register) will be used.
- The size of SNMP data area will be displayed in the SNMP tab according to the snmp.ini file.
- MIB objects of type INT (Integer32) are now mapped to a DDT register each, according to SNMP specifications.

Data logger

- Changed limitation of max. cycle interval for data logging to 86400s.
- When all 16 log files are configured, the first file is no longer overwritten with bad values.
- Error in synchronous writing has been fixed.

Project handling

- Upon saving a project, saving a global variables CSV file or displaying the global variables, the control relay and register addresses used will be checked for overlapping address ranges.
- The new check box "Send via FTP passive mode" enables the user to send the configuration to the FP Web-Server using the passive FTP transfer mode.
- When the "Configuration" check box is activated, only the PLC program is transferred to the connected PLC or Web files are transferred to the remote unit without resending the configuration files.
- The comment dialog can now be accessed via the menu from the system icon.

Example projects

- Example19_OpenVPN contains all files required (PLC program, certificates,...) to set up an OpenVPN connection.
- Example20_KW1M_WebInterface contains all files needed to configure and visualize the KW1M Eco-POWER METER units using pre-configured HTML pages and JavaScript mechanisms.

Other improvements

- Increased Configurator window size for a better overview of all configuration settings.
- The control relay and register addresses in the Email tab are accessible even if Email is deactivated. This is needed in case the unit is set up for PLCcontrolled dial-out or SMS sending functionality. This applies also to the email recipient and text fields, which are accessible if the Email function is switched off and SMS sending is enabled.
- Improved speed of unit update (send).
- Execute clear PLC program function before downloading .fp file in order to delete old PLC program and retain variables.
- The number of supported Ethernet interfaces (physical/virtual) of the host PC is increased to 10.
- Improved GT series USB driver. In rare cases, GT program download was aborted.
- If PLC-controlled dial-out is activated, the check box "Stay online after dial-up" will be activated.
- Improved the transparent (9-pin) server driver: An established connection from a client will be the unique connection. All other attempts to connect will be reset and data of these additional connections will NOT be buffered.
- Some SD cards could not be detected due to bad timing behavior. Improved initialization of SD cards.

FP WEB Configurator Tool version 2.400 update notes (May, 2012)

New features for FP-WEB2 unit:

(New features and bug fixes will not be compatible nor tested with FP-WEB unit version 1 anymore)

GSM terminal features:

- Additional parameter for SIM pin. The SIM pin request can be switched off.
- Getting status information from the GSM unit: Signal quality, used provider, registry status.
- Sending SMS via the GSM terminal.
- All functions are available at any time, even if the PPP connection is established!

Auto-baud detection:

- The auto-baud detection mechanism for the PLC interface port (RS232C and RS485) enables proper communication after power-up, even if the baud rate is not configured correctly.

Multiple email recipients:

- An email can be sent to more than one recipient in one time. Recipients have to be separated by a semicolon.
- The recipient address line has been increased to 300 characters.

Email server redundancy:

- A redundancy email server can be set up if the first server is not reachable.

Email server SSL connection:

- A SSL (Secure Sockets Layer) encrypted connection can be selected for the communication with the email POP/SMTP server.

PLC program upload via FP Web Configurator Tool:

- .fp files exported by FPWINPro can be transmitted to any PLC connected to the FP Web-Server.

GPRS-LinkManager redundancy:

- Automatic redundancy for Ethernet sub stations if the first server cannot be reached.

DynDNS settings:

- The DynDNS server setting can be modified manually to gain access to other providers.

HTML file upload improvement:

- If a FP Web Designer V6 project is detected the SVG files will be filtered and will not be transferred.
- Transferring the sub folder PNG images is enabled.

FTP client improvement:

- Append text lines step by step to a file of the SD card (if the file does not exist, it will be created automatically).
- With the append function it is easy to create a user defined CSV file logging.

IEC60870 library:

- New IEC60870 RTU solution. This solution allows creating a RTU controller without a programming tool.

Minor Improvements:

- Chip.ini settings can be modified via HTML pages.
- The IP address fields have been changed to windows style.
- Improved speed of USB communication.
- Improved scrolling inside logging device list.
- Improved open project dialog (file browsing)

Bugfixes:

- A USB communication timeout setting of 0 caused the communication to break down.
- Fixed bug in NTP Server for PLC Clock Synchronization, Single/redundancy server setting.
- SD card writing/error flags were not set in any case.

FP WEB Configurator Tool version 2.302 update notes (January, 2012)

New features for FP-WEB2 unit:

(New features and bug fixes will not be compatible nor tested with FP-WEB unit version 1 anymore)

Bugfixes:

- Fixed bug in SD card control: SD error was not set correctly. If writing on SD card is blocked the "Save" flag will not be checked.
- Fixed bug in FIND mechanism: Some few hosts answer with "ICMP host unreachable" and cause the FP Web Configurator to stop finding available units.
- Fixed bug in data logger dialog: Maximum number of files is limited to 65535.

FP Web Configurator Tool version 2.301 update notes (December, 2011)

New features for FPWEB2 unit:

(New features and bug fixes will not be compatible nor tested with FP-WEB unit version 1 anymore)

Control button for auto upload:

- A new [Auto upload] button allows you to upload modified files automatically to a remote FP-WEB2 unit.

Other improvements:

- GT firmware can now be downloaded via the USB port.

Bugfixes:

- Removed bug in GT driver. Some projects could not be downloaded to the GT touch terminal.
- Fixed bug in email transmission mechanism.
- Fixed bug in multiconnect port client function.

FP Web Configurator Tool version 2.3 update notes (November, 2011)

New features for FP-WEB2 unit:

(New features and bug fixes will not be compatible nor tested with FP-WEB unit version 1 anymore)

FTP client:

- The FP Web-Server unit can be configured as an FTP client for sending current PLC data or logged data to a remote FTP server. Transferring the data is similar to the email attachment function.

FTP server access rules:

- The FP Web-Server can provide files which are stored on the SD memory card of the FP Web expansion unit. Any external FTP client or a browser can download such files. A separate account with user name and password can be specified. This option can also be used to prohibit write access of the SD memory card via Ethernet.

Data logger:

- The FP Web-Server unit can log data from PLCs, Eco-POWER METERS and other units which communicate using MEWTOCOL. The data will be stored on the SD memory card of the FP Web Expansion unit and can be transferred using the FTP client function.

FP Web Expansion unit support:

- RS485 support for MEWTOCOL data which is transferred typically via RS232 3pin port. Depending on the function it is allowed to communicate to various PLC units.
- USB communication support for GT Protocol and MEWTOCOL data which is transferred typically via RS232 3pin port. Supports the pass through function of the GT panels and FP-X PLCs.

Control buttons:

- A new [BACKUP] button allows you to back up the configuration of a unit in a backup project.
- You can restore the backup project using the new [RESTORE] button.
- The new [IMPORT] button will import a backup project into a new FP Web Configurator project, where you can further modify the settings.

Transparent Port Client:

- The FP Web-Server unit can use a domain name instead of a fixed destination IP address in all client modes including the {ldomain.org} mode.

NTP Server for PLC Clock Synchronization:

- The NTP server feature now also supports domain names instead of fixed IP addresses and allows a second NTP server to be configured for redundancy.
- Implemented "second" and "last but one" in the DST calculation of the time tab to support North American DST calculation.

Dial-out setup for PPP-Client:

- The dial-out procedure can be controlled by a PLC relay; sending an email is no longer necessary.

Minor improvement and bug fixes:

- Enabled DNS resolution for all software modules.
- Email port numbers can be freely selected.
- Email function can be used to send logged files from the SD card.
- HTML and IEC60870 redundancy can be selected in parallel.
- New mode for text attachments to send email without requiring {tag information}, now using T02, which has become standard, instead of T01.
- Improved behavior of Modbus TCP client according to the Modbus TCP specification: when Modbus TCP Server closes the connection, e.g. after a timeout, the client will also close the socket.
- Improved project download mechanism for better stability.
- Changed MEWTOCOL password protection mechanism to be compatible with

FP Connect software.

- Removed bug in multiframe communication handling. Multiframe communication was sometimes interrupted if several clients frequently tried to access the PLC.
- Fixed bug in NTP dialog.
- Fixed bug MIME context in email.

HTTP Data Logger Software Tool:

- The HTTP Data Logger can be used now with or without a selectable proxy server.