



Date: 18 th Oct '2011	Software Release Note	RN-Sw-003
Rev: 1.00		Prepared by: Harsha Bhavsar Approved by: Kunal Patil

Gateway 3.12 + Updates Release Note

This release of the Gateway Configuration software V3.12 + Updates contains enhanced/changed drivers for Gateway products.

Gateway 3.12 + Update1

1. New drivers & driver changes/enhancements

A. GWY-00

New Addition:

- i) Modbus ASCII Driver ([G1_9602B](#)) at Com1 side.
- ii) Idec Slave ([G2_1492B](#)) is added at Com2 side.
- iii) GE ZENITH ([G1_1692A](#)) is added at Com1 side.

Modification:

- i) Firmware ([GTWV200D](#)) is modified in which control word issue is resolved.
- ii) PLC file for S7-300 is modified for type CPU's.
- iii) Omron Host Link driver ([G1_0602F](#), [G2_0602F](#)) is modified.

B. GWY-S8

No change.

C. GWY- 100(Lonwork Gateway)

New Addition:

- i) IAEFFINAL folder is added

Modifications:

- i) NVTypes.inf file updated for newly added SNVTs.
- ii) Modbus Slave driver ([G1_3902D](#)) is updated for three and half character issue.
- iii) Plc file of Toshiba ASDs is changed for corrupted "Frequency parameters"
- iv) Boot block is modified

D. Port Multiplexer

No change.



E. GWY-300(CAN Gateway)

New addition:

i) GE-90 series PLCs Driver (*G1_0203B*)

This is a newly added driver at Com1 side, which enables Gateway to transfer data to and from SNP devices over either RS232, or RS485. Can be used in a direct point-to-point (one master and one slave) arrangement only. Also, supports set privilege level w/o password functionality. Privilege level can be set in extended setup of gateway software.

ii) IDEC Master Driver (*G1_2503E*) is newly added at Com1 side.

iii) Telemecanique TSX-07 PLCs (*G1_9203A*) is new added at Com1 side.

iv) XtraDrive (*G1_1093B*) is newly added at Com1 side.

v) CANopen Generic Slave (*G2_14403B*) is newly added driver at Com2 side.

vi) CANopen Mailbox Slave (*G2_15703B*) is newly added driver at Com2 side.

vii) EDS files are added in separate folder named as EDS.

Modifications:

i) PLC file for CAN (J1939/71) is updated, new PGNs are added. Also No of Words field is increased to support more than 200 bytes for PGN 0xFECA.

ii) CAN(J1939) (*G2_9903E*) is updated i.e. new features like Diagnostic clear time count, Frame counter added. An issue is solved while receiving BAM messages. Also Baudrate support added for 125k, 500k and 1000k

iii) AB DF1-Compactlogix(Gateway as Master) (*G1_1543B*) updated for adding the Float register support for the Controllogix/Flexlogix/Compactlogix series.

iv) Modbus (GWY as master) (*G1_0903F*) driver updated. In this four new register types (O, I, X, Y) are added for supporting bit types in NS Operator Interface.

v) S7-200 PPI Master (*G1_2903B*) Driver is updated for solving scan time issue.

vi) Toshiba ASD (S11) (*G1_5003F*) Master Driver is updated for solving problems at power in case of Option Card and upload project.

vii) Optomux driver is removed from driver list.

viii) Omron Host Link (*G1_0603E*) driver is updated.

ix) AB DF1(Master) (*G1_27003B*) driver is updated.

x) CAN manual modified: CANopen Slave details added to manual.

xi) PGNLength file is updated in which following new PGNs are added:

1. 0xFE8C
2. 0xFEA3
3. 0xFEA2
4. 0xFEA1
5. 0xFEA0
6. 0xFE66
7. 0xFE07
8. 0xFE6A
9. 0xFEA5
10. 0xFE92



11.0xFF00 - 0xFFFF

F. GWY-500(Profibus Gateway)

New Addition:

i) GE-90 series PLCs Driver ([G1_0203B](#))

This is a newly added driver at Com1 side, which enables Gateway to transfer data to and from SNP devices over either RS232, or RS485. Can be used in a direct point-to-point (one master and one slave) arrangement only. Also, supports set privilege level w/o password functionality. Privilege level can be set in extended setup of gateway software.

ii) IDEC Master Driver ([G1_2503E](#)) is newly added at Com1 side.

iii) Telemecanique TSX-07 PLCs ([G1_9203A](#)) is new added at Com1 side.

iv) Generic ASCII driver ([G1_1673C](#)) is added at Com1 side supports No CRC. Also its help file is added.

v) Application note for Generic ASCII Driver is added.

Modifications:

i) Firmware file ([FRM_GWY500_1N](#)) is modified for auto initialize and default configuration parameters functionality for Generic ASCII driver. Also Orange LED issue is solved.

ii) Profibus driver ([G2_1203J](#)) has been modified for problem with Multinode also for auto initialize and default configuration parameters functionality for Generic ASCII driver. Also problem in address offset if Profibus Input / Output words are started from other than I000 or O000 is solved.

iii) AB DF1-Compactlogix (Gateway as Master) ([G1_1543B](#)) updated for adding the Float register support for the Controllogix/Flexlogix/Compactlogix series.

iv) Modbus (GWY as master) ([G1_0903F](#)) driver updated. In this four new register types (O, I, X, Y) are added for supporting bit types in NS Operator Interface.

v) S7-200 PPI Master ([G1_2903B](#)) Driver is updated for solving scan time issue.

vi) Toshiba ASD (S11) ([G1_5003F](#)) Master Driver is updated for solving problems at power in case of Option Card and upload project.

vii) Profibus connection status word is added in the PLC file

viii) Configuration parameters list of Generic ASCII driver is updated with new configuration parameter "ASCII Conversion".

ix) Omron Host Link ([G1_0603E](#)) driver is updated.

x) AB DF1(Master) ([G1_27003B](#)) driver is updated.

xi) Optomux driver is removed from driver list.

G. GWY-6XX(Ethernet Gateway)

New Addition:

i) Special firmware and drivers are added for TPDS pass through functionality. Driver file are Toshiba_SPL ([G1_15035A](#)) at Com1 side, Modbus TCP Server_Toshiba_SPL ([G2_15603A](#)) at Com2 side. Firmware file is ([FRM_GWY600_1F_Toshiba](#))



ii) ModbusTCP/HTTP Server ([G2_1593D](#)) is added. This driver is in support to the newly released Web Server feature for the Gateway 610 that enables remote monitoring of serial device parameters using a standard Java-enabled internet browser. The HTTP server (web server) works simultaneously with the ModbusTCP server; both the servers are integrated into a single driver. This driver allows ONLY the remote monitoring capability using any standard Java-enabled Internet browser, preferably IE6 and above. This driver has ONLY the HTTP server; the ModbusTCP server is NOT integrated into this driver! Also its demo projects are included in it ([Gateway Project: WebSrv-Demo.prj](#) and [HTML Project: Web-Serv_Demo.pzm](#))

NOTE: However, ONLY the Gateway units with Boot Block version 3.0D and above will be capable of using the web server functionality.

iii) GE-90 series PLCs Driver ([G1_0203B](#))

This is a newly added driver at Com1 side, which enables Gateway to transfer data to and from SNP devices over either RS232, or RS485. Can be used in a direct point-to-point (one master and one slave) arrangement only. Also, supports set privilege level w/o password functionality. Privilege level can be set in extended setup of gateway software.

iv) IDEC Master Driver ([G1_2503E](#)) is newly added at Com1 side.

v) Telemecanique TSX-07 PLCs ([G1_9203A](#)) is new added at Com1 side.

vii) Weldcon Controller ([G1_1643C](#)) is newly added at Com1 side.

vii) Weldcon (ErrLog Supported) ([G1_1703B](#)) driver (at Com1 side) and its plc files are added.

vi) Application note for web server is added.

Modification:

i) Boot Block is modified ([GWY_600_Boot_V3.00E](#)) to support web server functionality

ii) Firmware is modified ([FRM_GWY600_1I](#))

iii) Modbus TCP (Gateway as Master) ([G2_1323G](#)) is modified to solve the issues of data fluctuation and problems during initialization.

iv) AB DF1-Compactlogix (Gateway as Master) ([G1_1543B](#)) updated for adding the Float register support for the Controllogix/Flexlogix/Compactlogix series.

v) Modbus (GWY as master) ([G1_0903F](#)) driver updated. In this four new register types (O, I, X, Y) are added for supporting bit types in NS Operator Interface.

vi) S7-200 PPI Master ([G1_2903B](#)) Driver is updated for solving scan time issue.

vii) Toshiba ASD (S11) ([G1_5003F](#)) Master Driver is updated for solving problems at power in case of Option Card and upload project.

viii) Omron Host Link ([G1_0603E](#)) driver is updated.

ix) AB DF1 (Master) ([G1_27003B](#)) driver is updated.

x) Optomux driver is removed from driver list.

H. GWY-700(RFID Gateway)

New Addition:

i) GE-90 series PLCs Driver ([G1_0203B](#))

This is a newly added driver at Com1 side, which enables Gateway to transfer data to and from SNP devices over either RS232, or RS485. Can be used in a direct point-to-point (one master and one slave) arrangement only. Also, supports set privilege level w/o password functionality. Privilege level can be set in extended setup of gateway software.



- ii) IDEC Master Driver ([G1_2503E](#)) is newly added at Com1 side.
- iii) Telemecanique TSX-07 PLCs ([G1_9203A](#)) is new added at Com1 side.

Modification:

- i) Modbus (GWY as master) ([G1_0903F](#)) driver updated. In this four new register types (O, I, X, Y) are added for supporting bit types in NS Operator Interface.
river is updated.
- ii) AB DF1-Micrologics (Gateway as Master) ([G1_2703B](#)) is updated

I. GWY-800(HART Gateway)

New Addition:

- i) GE-90 series PLCs Driver ([G1_0203B](#))
This is a newly added driver at Com1 side, which enables Gateway to transfer data to and from SNP devices over either RS232, or RS485. Can be used in a direct point-to-point (one master and one slave) arrangement only. Also, supports set privilege level w/o password functionality. Privilege level can be set in extended setup of gateway software.
- ii) IDEC Master Driver ([G1_2503E](#)) is newly added at Com1 side.
- iii) Telemecanique TSX-07 PLCs ([G1_9203A](#)) is new added at Com1 side.

Modifications:

- i) Modification in Firmware ([HART_FIRM_3.2G](#)). The UART for HART communication is implemented with GPIO pins and external interrupt. So Start bit time to sample the serial data is 1.25, which results in poor communication on HART side. So this start bit delay is now changed to 1.5 character delay and found good with all HARD slave devices
- ii) HART ([G2_1293L](#)) is modified to implement Universal, common practice and Device specific command. Previous implementation is as it is. Also issue of timer is solved.
- iii) AB DF1-Compactlogix(Gateway as Master) ([G1_1543B](#)) updated for adding the Float register support for the Controllogix/Flexlogix/Compactlogix series.
- iv) Modbus (GWY as master) ([G1_0903F](#)) driver updated. In this four new register types (O, I, X, Y) are added for supporting bit types in NS Operator Interface.
- v) S7-200 PPI Master ([G1_2903B](#)) Driver is updated for solving scan time issue.
- vi) Toshiba ASD (S11) ([G1_5003F](#)) Master Driver is updated for solving problems at power in case of Option Card and upload project.
- vii) Omron Host Link ([G1_0603E](#)) driver is updated.
- viii) AB DF1 (Master) ([G1_27003B](#)) driver is updated.
- ix) Optomux driver is removed from driver list.

J. Gateway.Exe:

New Addition:

- i) For GWY-300 Com2 side Baudrates are added.
- ii) User can't select slave driver on both sides. I.e. Slave-Slave Configuration is not allowed.



- iii) Features related to web server are incorporated in the Gateway Software. Supporting HTML Configuration utility is introduced in this software release.
- iv) Attach register issue is solved.
- v) While opening an existing file and save it without any modification by different name then IDB files are newly created. Also while uploading any project and save it without any modification, in this case also IDB files are newly created. This issue is solved in this release.
- vi) Now the default value for Skip on Communication Fail value is set to 'No'.
- vii) Uploading issue is solved in this release.
- viii) Respective Gateway Help file is also modified.

Gateway 3.12 +Update3

A. GWY-100(Lonwork Gateway)

- i) One driver i.e. G2_1142Z.ABS was removed from setup so this file is added in GWY 100 product.

B. GWY-300(CAN Gateway)

- i) Following files are modified and these modified files are added in GWY 300 product.
 - a) PGNLength.inf
 - b) 9900_004.inf
- ii) AB DF1-Micrologics (Gateway as Master) ([G1_2703C.abs](#)) updated for IBM Download Problem

C. GWY-500(Profibus Gateway)

- i) Profibus driver ([G2_1203K](#)) has been modified for write configuration parameters into Gateway Flash from Profibus Master Device for Generic ASCII driver.
- ii) AB DF1-Micrologics (Gateway as Master) ([G1_2703C.abs](#)) updated for IBM Download Problem

D. GWY-6xx(Ethernet Gateway)

- i) AB DF1-Micrologics (Gateway as Master) ([G1_2703C.abs](#)) updated for IBM Download Problem

E. GWY-700(RFID Gateway)

- i) AB DF1-Micrologics (Gateway as Master) ([G1_2703C.abs](#)) updated for IBM Download Problem

F. GWY-800(HART Gateway)

- i) AB DF1-Micrologics (Gateway as Master) ([G1_2703C.abs](#)) updated for IBM Download Problem

Gateway 3.12 +Update4



In this update only Optomux driver and its plc file are added in GWY – 500, GWY-300, GWY-800 products.

Gateway 3.12 +Update5

A. GWY-6xx(Ethernet Gateway)

i) Modbus TCP (Gateway as Master) ([G2_1323H.abs](#)) updated to solve multiple node mode communication break problem if any node fail to response

Gateway 3.12 +Update6

A. GWY-500(Profibus Gateway)

i). Firmware version [FRM_GWY500_10.abs](#) updated to solve Profibus-Modbus slave combination coil access problem.

Gateway 3.12 +Update7

A. GWY-6xx(Ethernet Gateway)

- i). Firmware version [FRM_GWY600_1J.abs](#) updated to solve serial communication fail problem for higher baudrate.
- ii) Modbus TCP (Gateway as Master) ([g2_1323I.abs](#)) updated to solve window size detection at poweron.

Gateway 3.12 +Update8

A. Changes from software side:

New Product i.e. HRM 0800 is added in product list (with Product ID: [0X63](#)).
Also the validation with respective product id is done. Web pages are modified for Renu.
[Gateway.exe](#) (Time/Date: 2:55 PM / Jan 04, 2013)

B. Firmware file name and version:

[HRM_Firm3.3I.abs](#) (Time/Date: 5:01 PM / Jan 08, 2013)

C. Driver files name and version:

For com 1: [g1_12903W.abs](#) (Time/Date: 9:25 AM / Jan 08, 2013)
Following version 7 commands are added ->

71,74,76,87,89,84,85,86,88,94,512,513

For com 2: [G2_1313S.abs](#) (Time/Date: 9:26 AM / Jan 08, 2013)

D. Bootblock file name and version:

[HRM0800_Boot_V3.00L.hex](#) (Time/Date: 9:31AM / Jan 08, 2013)



Gateway 3.12 + Update9

A. GWY-00:

Modification:

1. PLC file for S7-300 is modified for Gateway MPI Address range (1-5).
2. PLC file for S7-200 is modified for support of CPU 226 with tag ranges

2. **Compatible operating systems:**

This version of the Gateway 3.12 + Update9 software is fully compatible with the following Operating systems:

1. Windows 98 and above.

3. **System Requirements:**

The minimum requirements for running the software are:

1. Windows Version: Microsoft Windows XP / 2000 / Windows 7 / Vista (32/64 Bits)
2. Processor: PENTIUM or higher
3. Hard disk Space: 5 MB or more
4. Serial Mouse: Required
5. RAM: 16 MB or more
6. Display resolution: 800 X 600 (VGA) or better
7. Display colors: 16 bit color

4. **How to get the latest version:**

Install Gateway setup software V1.12 and Update 8 from following path,

- i) **Gateway 3.12:** “\\harshab\gwy\Release Softwares\Gateway 3.12(Website_29-9-09)” Time: 4.54 PM
- ii) **Update9:** “\\harshab\gwy\Updates\Harsha_Updates\Updates for Gateway 3.12\For Website\Update9(29-5-14)”. Time: 12.24 PM

Also the latest software and update are now available from the Internet. You can download it from the following link:

http://renuelectronics.com/download_gateway.html

5. **Known restrictions and limitations**

- i) New GE SNP Master Driver does not support multiple slaves. Also, only one PLC address 00 00 00 00 00 00 00 00 (all NULL) is supported. Other slave addresses are not supported.
- ii) **GWY-500 (Profibus Gateway)**



1. In Profibus Gateway Project, Profibus Input and Output words should be mapped sequentially and in ascending order.
2. If user is using Siemens PLC as Profibus master then Starting address of Input or Output word in Siemens PLC project should be double of that of defined in Gateway Project. For example if Input words starts from I002 in gateway Project, then in Siemens PLC project input words should start from IW4 instead of IW2. This is because Siemens has input and output words reference as IW0, IW2, IW4 etc and QW0, QW2, QW4 etc whereas Gateway has input and output references as I000, I001, I002 etc and O000, O001, O002 etc

iii) **GWY-800B (HART Gateway)**

1. With the new firmware and driver of Gateway-800B, it is found from client side that GWY-800B unable to communicate with Prowirl-72 (flow meter) device.

GLOBAL SUPPORT

- By Phone:
Tel: +91 020 27292840
Fax: +91 020 27292839
- By Email:
prashantb@renuelectronics.com
- By Web:
<http://www.renuelectronics.com/contactus.htm>
<http://www.renuelectronics.com/enquiry.htm>
- By Mail:
Renu Electronics PVT. LTD,
Survey no. 2/6, Baner Road,
Pune,
India 411045.