



eWON files: text format

TN 02

ver 1.1

07/10/2004

For eWON® 4000, 500-2001-4001

1 Overview

You'll find here the description of the text files you can download by FTP from the eWON:

- [var_lst.txt on page 2](#)
- [irc_xxx.txt on page 4](#)
- [rt_alm.txt on page 5](#)
- [hst_alm.txt on page 6](#)
- [events.txt on page 7](#)
- [program.bas on page 8](#)
- [inst_val.txt on page 9](#)

All files except program.bas are CSV text files (Comma Separated Values) with semicolon (;) as separator.

First line contains the title of columns.

All data are separated by a semicolon (;).

String data are quoted ("string").

Numeric data are not quoted and use a point (.) as decimal separator.

These type of files are automatically handled by programs such as Excel, Lotus123,...

The files config.bin, ewonfwr.edf, inst_val.bin and dump.ppp are binary files and are explained in the TN03 eWON binary files format.



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1 var_lst.txt

This file contains the description of each Tags configured in the eWON. File example:

First line (header):

```
"Id";"Name";"Description";"ServerName";"TopicName";"Address";"Coef";"Offset";"LogEnabled";"AIEnabled";"Type";"AIBool";"MemTag";"MbsTcpEnabled";"MbsTcpFloat";"SnmpEnabled";"RTLogEnabled";"AIAutoAck";"ForceRO";"SnmpOID";"AIHint";"AIHigh";"AILow";"ALTimeDB";"ALLevelDB";"IVGroupA";"IVGroupB";"IVGroupC";"IVGroupD";"PagelD";"RTLogWindow";"RTLogTimer";"LogDB";"LogTimer";"AILoLo";"AIHiHi";"MbsTcpRegister";"MbsTcpCoef";"MbsTcpOffset";"EEN";"ETO";"ECC";"ESU";"EAT";"ESH";"SEN";"STO";"SSU";"TEN";"TSU";"FEN";"FFN";"FCO";"AIStat";"ChangeTime";"TagValue"
```

Second line (Tags' details)

```
1;"t";"";"MODBUS";"a";"30006,1";1.000000;0.000000;0;0;1;0;0;0;0;0;0;0;1;"";0.000000;0.000000;0;0.000000;0;0;0;0;1;600;10;-1.000000;0;;;1;1.000000;0.000000;;;"";"";"";"";"";"";"";"";"";"";"";"";0;"01/01/1970 00:00:00";0.000000
```

Column Titles	Field Description
TagId	Tag identifier (internal use)
TagName	Name of the Tag
Description	Description of the Tag
ServerName	IO Server Name (eWON, MEM, MODBUS, UNITE, NETMPI or DF1)
TopicName	Name of the topic (A, B or C). Does not apply (empty) for eWON and MEM
Address	Address of the Tag (eWON, MODBUS, UNITE, NETMPI or DF1 IO address)
Coef	Multiplication coefficient used to translate IO value towards eWON value
Offset	Offset used to translate IO value towards eWON value
LogEnabled	Historical logging enabled (0 or 1) [for eWONs types that support this feature]
AIEnabled	Alarm enabled (enabled = -1)
Type	Alarm type (0 = Boolean, 1 = analog)
AIBool	Is a Boolean alarm (0 or 1)
MemTag	Is memory Tag (1 = memory Tag, 0 = other)
MbsTcpEnabled	Modbus TCP enabled (enabled = -1)
MbsTcpFloat	Consider as float value (2 subsequent registers) (enabled = -1)
SnmpEnabled	SNMP enabled (enabled = 1)
RTLogEnabled	Real time logging enabled (enabled = 1)
AIAutoAck	Alarm auto-acknowledging enabled (enabled = -1)
ForceRO	Force read-only Tag (enabled = -1)
SnmpOID	SNMP OID
AIHint	Alarm hint (Tag's configuration page)
AIHigh	Alarm level high (warning level)
AILow	Alarm level low (warning level)
ALTimeDB	Alarm activation delay



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AlLevelDB	Alarm deadband
IVGroupA	Tag belongs to Instant Value group A (enabled = -1)
IVGroupB	Tag belongs to Instant Value group B (enabled = -1)
IVGroupC	Tag belongs to Instant Value group C (enabled = -1)
IVGroupD	Tag belongs to Instant Value group D (enabled = -1)
PageId	Page the Tag is published on
RTLogWindow	Real-time logging time span
RTLogTimer	Real-time logging interval
LogDB	Historical logging deadband
LogTimer	Historical logging interval
AlLoLo	Alarm low-low level (danger level)
AlHiHi	Alarm high-high level (danger level)
MbsTcpRegister	Enabled access to the Tag as a Modbus register (enabled = 1)
MbsTcpCoef	Tag value Modbus TCP publishing multiplier coefficient
MbsTcpOffset	Tag value Modbus TCP publishing offset
EEN*	Alarm send an Email on alarm
ETO	Email alarm recipient(s) (coma separated)
ECC	Email alarm carbon-copy recipient(s)
ESU	Email alarm subject
EAT	Email alarm attachment (as Export Block Descriptor)
ESH	Enable Email sent as SMS (enabled = A)
SEN*	Enable send an SMS on alarm
STO	SMS alarm recipient
SSU	SMS alarm subject
TEN*	Enable send an SNMP Trap on alarm
TSU	SNMP Trap subject
FEN*	Enable send file to FTP on alarm
FFN	FTP destination file name
FCO	FTP file content (as Export Block Descriptor)
AlStat**	Alarm status
ChangeTime	last value time in string (for info purpose)
TagValue	last value (for info purpose)

* Please refer to chapter "Send on alarm notification patterns" in eWON Version 4 User Guide.

** Please refer to chapter "ALSTAT" in eWON Version 4 User Guide.



2 irc_xxx.txt

This kind of file contains the Incremental Recording one Tag.

The eWON has one IRC file for each of the defined Tags.

“xxx” stands for the name of the Tag

(i.e.: irc_Sonde.txt for the Tag "Sonde")

File example:

```
"TimeInt";"TimeStr";"IsInitValue";"Value"  
1096304143;"27/09/2004 16:55:43";0;50.000000  
1096304148;"27/09/2004 16:55:48";0;80.000000  
1096304153;"27/09/2004 16:55:53";0;120.000000  
1096304193;"27/09/2004 16:56:33";0;150.000000
```

These files may be empty (only title row, no data) if historical logging is disabled.

Column Titles	Field Description
TimeInt	Timestamp in integer format (number of seconds since 01/01/1970)
TimeStr	Timestamp in string format "DD/MM/YYYY HH:MM:SS"
IsInitValue	Set to 1 if data it's the first one of the historical logging, time scheduled or deadband (typically after an eWON reset) Otherwise, set to 0
Value	Value of the Tag



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3 rt_alm.txt

This file contains the Real-Time Alarms currently present in the eWON. This file is equivalent to the eWON Alarm Summary page. File example:

```
"TagId";"AlarmTime";"TagName";"AIStatus";"AIType";"StatusTime";"UserAck";"Description"  
9;"27/09/2004 17:34:35";"Level_Tank_A";"ACK";"LOLO";"28/09/2004 08:51:10";"Adm";"Fuel level Tank A"  
1;"27/09/2004 16:29:16";"GA_AN01";"ACK";"LO";"27/09/2004 17:36:05";"Adm";"Atmospherical pressure input (kPa)"
```

Column Titles	Field Description
TagId	Tag identifier (internal use)
AlarmTime	Timestamp of the begin of alarm (in string)
TagName	Name of the Tag
AIStatus	Status of the alarm: ALM: beginning of the alarm ACK: acknowledged by user (alarm active) RTN: end of the alarm END: acknowledged by user (alarm returned)
AIType	Type of alarm: <ul style="list-style-type: none"> • LOW (LO) • HIGH(HI) • Very LOW(LOLO) • Very HIGH(HIHI) • Boolean (LVL)
StatusTime	Timestamp of the AIStatus that is currently showed
UserAck	User who acknowledged the alarm (if alarm is acknowledged, empty if it is not)
Description	Description of the Tag



4 hst_alm.txt

This file contains the historic of the alarms which occurred in the eWON. This file is equivalent to the eWON Alarm History page. File example:

```

"EventDate";"TagName";"Status";"Type";"UserAck";"Description"
"27/09/2004 16:29:16";"GA_AN01";"ALM";"LO";"";"Atmospheric pressure input (kPa)"
"27/09/2004 16:29:48";"GD_D001";"ALM";"HI";"";"First output"
"27/09/2004 16:30:41";"GD_D001";"RTN";"";"First output"
"27/09/2004 16:31:58";"GD_D001";"END";"";"Adm";"First output"

```

Column Titles	Field Description
EventDate	Timestamp of the event in string
TagName	Name of the Tag
Status	Status of the alarm: <ul style="list-style-type: none"> • ALM: beginning of the alarm • ACK: acknowledged by user (alarm active) • RTN: end of the alarm • END: acknowledged by user (alarm returned)
Type	Alarm level type (LOW (LO)-HIGH(HI)-Very LOW(LOLO)-very HIGH(HIHI)
UserAck	User who acknowledged the alarm
Description	Description of the Tag

5 events.txt

This file contains the list of events that occurred in the eWON. An event can be a reboot, an eWON login, an eWON logout, an internal error, ...

The type of events that are logged in this file concern:

- The eWON configuration
- The eWON IO servers
- The eWON modem communication (for eWONs which embed a modem)
- The eWON serial communication
- The eWON kernel
- The eWON Web Interface
- The eWON security
- The other eWON applications

File example:

```
"EventTimeInt";"EventTimeStr";"EventStr";"ThreadStr";"ThreadId";"Event"
1095947435;"23/09/2004 13:50:35";"bakfile-Could not rename file to backup";"main";79303;28002
1095947501;"23/09/2004 13:51:41";"emodem-Modem init failed";"ppp";79311;27232
1095947516;"23/09/2004 13:51:56";"srffs-file is not found";"rcfg";79309;26908
1095947590;"23/09/2004 13:53:10";"eWON Booting, FWR: EW_4_0S0 (4.0), SN: 0346-0001-86";"elog";79300;-22602
1095947590;"23/09/2004 13:53:10";"Reboot reason: EwonCfg Reset Request";"wd";79308;1073762140
1095947658;"23/09/2004 13:54:18";"emodem-Modem init failed";"ppp";79311;27232
1095947726;"23/09/2004 13:55:26";"emodem-Modem init failed";"ppp";79311;27232
1095947796;"23/09/2004 13:56:36";"emodem-The INIT string was reset to its default value because of multiple errors";"ppp";79311;27223
1095947796;"23/09/2004 13:56:36";"emodem-Modem init failed";"ppp";79311;27232
```

Column Titles	Field Description
EventTimeInt	Timestamp in integer format (number of seconds since 01/01/1970)
EventTimeStr	Timestamp in string format "DD/MM/YYYY HH:MM:SS"
EventStr	Event message
ThreadStr	Thread that is concerned by the event
ThreadId	Thread ID
Event	Description of the event

6 program.bas

This file contains the source code from the BASIC program created by the user.

File example:

```
rem --- eWON start section: Routines
rem --- eWON user (start)
Ventilateur:
Temp = GETIO "Sonde"
Limite = GETIO "Limite"
IF Temp>Limite THEN SETIO "Ventilateur",1: GOTO EndIfTemp
SETIO "Ventilateur",0
EndIfTemp:
RETURN
rem --- eWON user (end)
end
rem --- eWON end section: Routines
rem --- eWON start section: Cyclic Section
ewon_cyclic_section:
rem --- eWON user (start)
GOSUB ventilateur
rem --- eWON user (end)
end
rem --- eWON end section: Cyclic Section
rem --- eWON start section: Init Section
ewon_init_section:
rem --- eWON user (start)
cls
print time$
rem --- eWON user (end)
end
rem --- eWON end section: Init Section
```

You can view, in bold, the code entered within the eWON **Script Setup** page. The other lines are generated automatically and are the delimiters of sections (with a lot of Remark lines).

You can write the program.bas file on your computer (offline) and then upload it to the eWON FTP site.



7 inst_val.txt

This file contains the instant values from all the Tags that are currently present in the eWON.

File example:

```
"TagId";"TagName";"Value";"AIStatus";"AIType"  
1;"t";0.000000;0;0  
2;"memo";1.000000;2;3
```

Column Titles	Field Description
TagId	Tag identifier
TagName	Name of the Tag
Value	Current value of the Tag at the moment the instant value file is opened
AIStatus	Alarm status (0: no alarm, 1: pretrigger, 2: alarm, 3: ACK, .4: RTN...)
AIType	Alarm type: <ul style="list-style-type: none">• 0: no alarm• 1: alarm level HIGH (warning)• 2: alarm level LOW (warning)• 3: boolean alarm level• 4: alarm level HIGHHIGH (danger)• 5: alarm level LOWLOW (danger)