

Format of the Histo.dat file

UPDATES

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2.1				29/Dec./98	
2.2	GL	HDS Unit		04/July/07	

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The HISTO.DAT file is an ASCII file that describes the configuration of the historical data. It lists the archiving units, trends and log lists configured in the application project. It is held in the C folder of the project.

The first records in the file are about the configuration of the units; they each start with **UNIT**.

The records after that describe trends; they start with **TRD**. Those may in turn be followed by **TRDFILTER** and **TRDFORMAT** records that define the data to be archived as well as the conditions to be met for data values to be stored.

Records to describe log lists start with **LOG**. They may be followed by **LOGFILTER** and **LOGFORMAT** records that define the data to be archived as well as the conditions to be met for data values to be stored.

The final records define log reports; they start with **REP**.

In the table below, the first column refers to SV versions 1.00 to 4.xx, whilst the second column refers to later versions.

UNIT RECORDING						
#1	#2	#3	Description	T	Size - bytes	Value
1			Record type	C	2	UD
	1		Record type	C	4	UNIT
		1	Record type	C		UNIT_HDS
2	2	2	Archive unit's name	C	12	
3	3		Archive unit's capacity in bytes	N	4	
4	4		Flag indicating whether archive unit must be managed (1 for archiving)	N	2	0/1
5	5		Folder to which the unit's files must be copied for archiving	C		
6			Tag name for starting archiving	C	12	
	6		Bit name for starting archiving	C	40	
7	7		Direction of state change for archiving (0-to-1: '0' or 1-to-0: '1')	N	2	0/1
8			Tagname for the text to identify the archiving process	C	12	
	8		Name of the text to identify the archiving process	C	40	

9			Tagname of the variable for the rate of filling	C	12	
	9		Name of the variable for the rate of filling	C	12	
10	10		Maximum size of a data file (in bytes)	N	4	
11	11	3	Unit type USD_STANDARD 0 USD_DB_FILE 1 USD_DB 2 USD_VCR 3 USD_HDS 5	N	2	0 to 5
12	12	4	Configuration flags USBD_ENABLED 0x0001 USD_READONLY 0x0002	N	2	
13	13		Memory buffer size (in bytes)	N	2	0 to 64000
14	14		Interval for saving the buffer (in seconds; 0 => not saved)	N	2	
15	15			N	2	
16	16		Folder for storing the database files (unit type USD_DB_FILE)	C		
17	17		Trend storage format	C		
18	18		Log list storage format	C		
19	19		Database name (unit type USD_DB)	C	12	
20	20	5	Name of the unit's list of producer stations or producer unit associations	C	14	
21	21	6	Name of the unit's list of consumer stations	C	14	
22	22	7	Source of the object	N	2	
23	23	8	Version of the object	N	2	
24	24	9	Comment	C		
25	25		Format of the index and data files (with or without attributes; extension IND instead of IDX)	N	2	
26	26		No. of days of data storage for files in a VCR type unit	N	2	
27	27		Duration in hours of a snapshot in a VCR type unit	N	2	

28	28		Format for storing dates in a VCR type unit	N	2	
29	29		Format of storing attributes in a VCR type unit	C		
30	30		Folder for accessing VCR archive files from a dedicated station	C		
31	31		Buffer cache for storing VCR events	N	2	
32	32		Interval for flushing the VCR cache	N	2	
33	33		Buffer size for merging VCR events	N	4	
34	34		Interval for merging VCR events	N	2	

TRD RECORDING					
#1	#2	Description	T	Size - bytes	Value
1		Record type for trend variables	C	2	TD
	1	Record type for trend variables	C	3	TRD
2		Tagname of the variable	C	12	
	2	Name of the variable	C	40	
3	3	Variable type (not used)	C	1	0/1
4		Tagname of inhibiting bit	C	12	
	4	Name of the inhibiting bit	C	40	
5	5	Maximum interval for blinking (in seconds)	N	4	0 to 32000
6	6	Buffer size (in bytes)	N	2	1000 to 32000
7	7	Interval for saving the buffer (in seconds)	N	2	0 to 32000
8	8	Name of the archive disk unit	C	12	
9	9	Flag indicating storage in binary (0) or in ASCII (1)	C	1	0/1
10	10	Archiving flag (milliseconds)	C	1	0/1
11	11	Inhibiting bit flag	N	2	0/1
12	12	Archiving flag in header: tagname (1), name (2) or none (0)	N	2	0 to 2
13	13	Archiving by value flag: tagname (1), name (2) or none (0)	N	2	0 to 2
14	14	Format for storing time-stamps in ASCII	N	2	
15	15	Code of separator for storing a date in ASCII	N	2	

16	16	Code of separator for storing hours in ASCII	N	2	
17	17	Code for separator for storing milliseconds in ASCII	N	2	
18	18	Flag for trend: real-time (0) or imported (1)	C	1	0/1
19	19	Name of the list of producer stations and associations. Not used	C	14	
20	20	Name of the list of consumer stations. Not used	C	14	
21	21	Source of the object	N	2	
22	22	Version of the object	N	2	
23	23	Comment	C		
24	24	Flag for trend configured as the primary trend	N	2	

TRDFILTER RECORDING					
#1	#2	Description	T	Size - bytes	Value
1	1	Record type	C	9	TRDFILTER
2	2	Name of the trend variable	C	40	
3	3	Recording filter on attributes (a condition that must be met for a value to be recorded)			

TRDFORMAT RECORDING					
#1	#2	Description	T	Size - bytes	Value
1	1	Record type	C	9	TRDFORMAT
2	2	Name of the trend variable	C	40	
3	3	Values to store at the same time as trends (attributes etc.)			

LOG RECORDING					
#1	#2	Description	T	Size - bytes	Value
1		Record type of the log lists	C	2	LC
	1	Record type of the log lists	C	3	LOG
2	2	Name of the log list	C		
3	3	Logging of state changes	N	2	0/1

4	4	Logging of alarm acknowledgements	N	2	0/1
5	5	Min. Priority for logging alarms	N	2	0/1
6	6	Sending of c/c/t/r	N	2	0/1
7	7	Logging the starts & ends of sessions	N	2	0/1
8	8	Merging interval	N	2	
9	9	Size of merging buffer	N	4	
10	10	Buffer size	N	2	
11	11	Interval for saving the buffer	N	2	
12	12	Archive unit	C		
13	13	Printer name	C		
14	14	Printed output format	C		
15	15	Name of the list of producer stations and producer associations. Not used	C	14	
16	16	Name of the list of consumer stations. Not used	C	14	
17	17	Source of the object	N	2	
18	18	Version of the object	N	2	
19	19	Comment	C		

LOGFILTER RECORDING					
#1	#2	Description	T	Size - bytes	Value
1	1	Record type	C	9	LOGFILTER
2	2	Name of the log list	C	8	
3	3	Filter for recording of attributes (a condition that has to be met for values to be recorded)			

LOGFORMAT RECORDING					
#1	#2	Description	T	Size - bytes	Value
1	1	Record type	C	9	LOGFORMAT
2	2	Name of the log list	C	40	
3	3	Values to store at the same time as the default data (attributes etc.)			

REP RECORDING					
#1	#2	Description	T	Size - bytes	Value
1		Record type for log lists	C	3	JB
	1	Record type for log lists	C	3	REP
2	2	List name	C		
3	3	Variable for starting	C		
4	4	Direction for starting	N	2	
5	5	Block length (in bytes)	N		
6	6	Interval for saving the buffer	N		
7	7	Archive disk unit			
8	8	Current printer			
9	9	Buffer			
10	10	List header			
11	11	Name of the list of producer stations or producer associations. Not used	C	14	
12	12	Name of the list of consumer stations. Not used	C	14	
13	13	Source of the object	N	2	
14	14	Version of the object	N	2	
15	15	Comment	C		
	16	Name of the associated printer	C	30	
	17	Flag for print status dialog being open (1: not open)	C	1	0/1