File Format of Station.dat

SUMMARY: THIS DOCUMENT DESCRIBES THE FORMAT OF THE FILE STATION.DAT WHICH STORES THE CONFIGURATION MULTIPOSTS OF AN APPLICATION SV32.

KEY WORDS: SV2, SV32, STATION.DAT, NETWORKING

UPDATES

Version	Author	Actions	Revision	Date	Distribution
2.0	FrM				Advanced
2.1	DL	Update STATIONNG		27/03/07	
2.2	DL	Update STATIONNG Field 9 to 15		11/02/13	
2.3	JCW	Update the wizard settings		06/12/2016	
2.4	JCW	Update the length for all descriptions (from 80 to 255)		30/03/2017	

CONTENTS

Introduction

The file "station.dat" contains the configuration of multi-station.
It consists of line and the information is bounded by commas.

We find there:
- the stations consisted of points of network access (nodes)
- The links between nodes allowing of indicating the connections between the stations.
- The associations allowing to define a group of server as being one only one entity and visible as a station. Associations are used to provide redundancy behaviour.
- The lists allowing defining groups of stations and\or associations for the configuration of objects of scada.

Initial station's IP address and port number for networking wizard: IPBASE

#	Name of property	size	Default value
1	Initial IP address	xxx.xxx.xxx.xxx	10 .0 .0 .1
2	Initial port number	0..65535	1981

Initial station numbers for networking wizard: STATIONIDBASES

#	Name of property	size	Default value
1	Initial server station number	1..50	1
2	Initial association number	51..100	51
3	Initial client station number	101..255	101

Parameters for networking station nodes: AUTOLINKNODE

#	Name of property	size	Default value
1	Station nodes' auto link flag	0/1	1

Parameters of a station : STATIONNG

#	Name of property	size	Default value
1	Name of the station	max 14 characters	STATION1 (auto-numbering)
2	Description of the station	max 255 characters	
3	Object origin	-32767..32768	
4	ID of the station	1..250	
5	Rate of availability	0..100	100
6	Historical server	0..1	0
7	Gateway	0..1	0
8	Log route	0..1	0
9	Run only in a remote desktop session (RDS)	0..1	0

#	Name of property	size	Default value
10	Use different folder for each RDS session	0..1	1. if equal 1, the project and libraries on the host PC are not shared by the supervisor running in remote desktop session
11	Configuration backup file	-2, -1 (none), 0 .. 9	-2 mean same as the global setting.
12	Enable property server	0..1	1 except if the supervisor run only in RDS
13	Network dongle role, owner or renter	0 (Standalone), 1 (owner),2 (renter)	0 = standalone mean no network dongle
14	Network dongle slot	1..2	1 = slot 1
15	Network dongle owner's station name or association	Max 14 characters	This field is only meaningful for renters.

Field 7 and 8 are available only on 8.10 SP1 and further version.
Field 9..11 are available only on 10.0 SP1 and further version.
Field 12 is available only on 10.0 SP2 and further version.
Field 12..14 are available only on 11.0 and further version.

Parameters of a node

The node Tcp/Ip: NODEIP

#	Name of property	size	Default value
1	Name of the node	max 16 characters	STATION1_0 (auto-numbering)
2	Name of the station supporting this node	max 14 characters	STATION1
3	Description of node	max 255 characters	
4	Number of the node	0..3	0
5	Flag of activation of the client mode of the node	0..1	1
6	IP address	xxx.xxx.xxx.xxx	. . .
7	Flag of activation of the server mode of the node	0..1	1
8	Host name	max 16 characters	STATION1
9	Port number	0..65535	1981
10	Flag of activation of the watchog	0..1	1
11	Watchog period	0..300 s	5 s
12	re-connection period	5..300 s	60 s
13	Send timeout	20..300 s	20 s
14	Connection timeout	20..300 s	20 s
15	Buffer size before send	1..64 kb	30 kb
16	Delay before send	250..5000 ms	500 ms

The node NetBIOS: NODENB

#	Name of property	size	Default value
1	Name of the node	max 16 characters	STATION1_0 (auto-numbering)
2	Name of the station supporting this node	max 14 characters	STATION1
3	Description of node	max 255 characters	
4	Number of the node	0..3	0
5	Flag of activation of the client mode of the node	0..1	1
6	Node name in client mode	max 16 characters	STATION1C0
7	Flag of activation of the server mode of the node	0..1	1
8	Node name in server mode	max 16 characters	STATION1S0
9	Protocol number	0..32	0
10	Flag of activation of the watchog	0..1	1
11	Watchog period	0..300 s	5 s
12	re-connection period	5..300 s	60 s
13	Send timeout	20..300 s	20 s
14	Connection timeout	20..300 s	20 s
15	Buffer size before send	1..64 kb	30 kb
16	Delay before send	250..5000 ms	500 ms

Parameters of the link: LINKNG

#	Name of property	size	Default value
1	Name of the client node of a station	max 16 characters	
2	Name of the server node of a station	max 16 characters	

Parameters of an association

Header of the association: ASS_HEADER

#	Name of property	size	Default value
1	Name of the association	max 14 characters	ASSOCIATION1
2	Network ID of the association	1..250	(auto-numbering)
3	Description of the association	max 255 characters	
4	Flag of activation of the unique server	0..1	1
5	Internal variable switching	0..1	0

The elements of association: ASS_ELT

#	Name of property	size	Default value
1	Name of the association	max 14 characters	
2	Name of a server node of a station	max 16 characters	

Parameters of historical association

Header of the historical association: ASSH_HEADER

#	Name of property	size	Default value
1	Name of historical association	max 14 characters	ASSOC_HISTO1
2	Networking ID of the association	1..250	(auto-numbering)
3	Description of the association	max 255 characters	

The elements of historical association: ASSH_ELT

#	Name of property	size	Default value
1	Name the historical association	max 14 characters	
2	Name of a server node of a station	max 16 characters	

Parameters of a list of servers

Header of list of servers: SSL_HEADER

#	Name of property	size	Default value
1	Name of list	max 40 characters	LSERVER1 (auto-numbering)
2	Reserve		
3	Description of the list	max 255 characters	

The elements of list of servers: SSL_ELT

#	Name of property	size	Default value
1	Name of list	max 40 characters	
2	Name of station server	max 14 characters	

Parameters of a list of clients

Header of list of clients: CSL_HEADER

#	Name of property	size	Default value
1	Name of list	max 40 characters	LCLIENT1 (auto- numbering)
2	Reserve		
3	Description of the list	max 255 characters	

The elements of list of clients: CSL_ELT

#	Name of property	size	Default value
1	Name of list	max 40 characters	
2	Name of station client	max 14 characters	

Parameters of a list of modifications clients

Header of list of modifications clients: SLCFG_HEADER

#	Name of property	size	Default value
1	Name of list	max 40 characters	LMDFCLIENT1 (auto- numbering)
2	Reserve		
3	Description of the list	max 255 characters	
4	Flag of activation	0..1	0

The elements of list of modifications clients: SLCFG_ELT

#	Name of property	size	Default value
1	Name of list	max 40 characters	
2	Name of station client of modifications	max 14 characters	

Parameters of a list of historical serveurs

Header of list of historical servers: SSHL_HEADER

#	Name of property	size	Default value
1	Name of list	max 40 characters	LHSERVER1 (auto- numbering)
2	Reserve		
3	Description of the list	max 255 characters	

The elements of list of historical servers: SSHL_ELT

#	Name of property	size	Default value
1	Name of list	max 40 characters	
2	Name of station historical server	max 14 characters	