

UPDATES

Revision	Author	Action	Review	Date	Published
2.0					
2.1	JS	Adding OPCSVR		14/10/2009	

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Miscellaneous

'VERSION' RECORD					
No.	Description	Т	Size in bytes	Value	
1	Record type	С	7	VERSION	
2	PARAM.DAT file version number (1 to n)	N	2	8	
3	Revision number (R1 to Rn)	С	2	R1	
4	File type	С		PARAM	
5	Full name of the file	С	132		
6	Latest modification date	С	8		
7	Latest change time	С	8		
8	Project name	С	12		

'FIR	'FIRST' record				
No.	Description	Т	Size in bytes	Value	
1	Record type	С	5	FIRST	
2	Unused (with initial view, 0 or 1)	N	1		
3	B21 branch of the initial window	С	26		
4	B21 initial window (0 or 1)	N	1		
5	B21 initial window name	С	26		
6	Unused (start programs (0 or 1))	N	1		
7	Unused (start CIMWAY, 0 or 1)	N	2		
8	Unused (start simulation programs)	N	2		
9	Unused (real-time archiving test)	N	2		
10	The main window B21Titre	С	132		
11	B21 main window title	N	1		
12	B60 base for variables numbers	N	5		
13	B21 title of the main window (alternative language)	С	132		

'PRO	OG' record			
No.	Description	Т	Size in bytes	Value
1	Record type	С	4	PROG
2	B21 user programs: statements	С	26	
3	Unused (name_biblio)	С	26	
4	B21 communication programs:	С	26	
	before			
5	B21 communication programs: after	С	26	
6	unused (CIMWAY compatibility)	С	26	
7	unused (compatibility)	С	26	
8	B21 DDE programs: before	С	26	
9	B21 DDE programs: after	С	26	
10	B21 start user programs	N	1	
11	B21 start communication software	С	1	
12	B21 do not start DDE conversation	С	1	

'FIL	'FILES' record					
No.	Description	Т	Size in bytes	Value		
1	Record type	С	5	FILES		
2	Unused (in BIN)	С	12			
3	Unused (in FTE)	С	12			
4	Unused (in SYM)	С	12			
5	Unused (in BMP)	С	12			
6	Unused (in project\C)	С	12			
7	Unused (in project\W)	С	12			
8	Unused (in project\S)	С	12			
9	Unused (in project\B)	С	12			
10	Unused (in project\P)	С	12			
11	Unused (in project\TP)	С	12			
12	Unused (in project\H)	С	12			
13	Unused (in project\TH)	С	12			

'WI	'WINDOWO' to 'WINDOW7' records					
No.	Description	Т	Size in bytes	Value		
1	Record type	С	6	WINDOW		
2	B26 drawing background: background color	N	2	7		
3	B26 display: X start	N	2	0		

4	B26 display: Y start	N	2	0
5	B26 display: width	N	2	640
6	B26 display: height	N	2	480
7	B26 display: grid x	N	2	8
8	B26 display: grid y	N	2	8
9	B26 behavior: borders	N	2	1
10	B26 behavior: menu system	N	2	1
11	B26 behavior: reduction	N	2	0
12	B26 behavior: expansion	N	2	1
13	B26 behavior: title bar	N	2	1
14	Unused (Close)	N	2	0
15	Unused (Task Manager)	N	2	0
16	B26 responsible plan: background	N	2	1
10	color flag	' '		'
17	B26 drawing background:			0
.,	Bit 0: use bitmap			
	Bit 1: use symbol			
18	B26 display: show grid			1
19	B26 display: alignment			1
20	B26 behavior: next drawing (bit 0)			6
20	B26 behavior: move (bit1)			
	B26 behavior: size (bit2)			
	B26 behavior: cache (bit3)			
21	B26 show title			1
22	B26B popup behavior			0
23	B26B opening position (0-8)			0
24	B26B initial position of a corner of			1
	the window (1-4)			-
25	B26B distance from corner of			0
	window: width			
26	B26B distance from corner of			0
	window: height			
27	B26 window tracking level			0
28	B26 bitmap: X start			0
29	B26 bitmap: Y start			0
30	Unused			0
31	B26 bitmap name			
32	B26 symbol name			
33	B26 title			
34	B26 title (alternative language)			
35	B26 style appearance: label			N style
36	B26 Style appearance: label			Template
	(alternative language)			n
37	B26 symbol: X start			11
38	B26 symbol: Y start			
<u> </u>	DZO SYTTIDOL. I STALL			
		+		

DRA	DRAW_DEFAULT record				
No.	Description	Т	Size in bytes	Value	
1	Record type	С	12	DRAW_DEFAULT	
2	colmotifbase	N	2	23	
3	colmotifcli	N	2	0	
4	colmotif	N	2	23	
5	HR	N	2	0	
6	VR	N	2	0	
7	typehatch	N	2	0	
8	typepattern	N	2	0	
9	aspect	N	2	0	
10	distance	N	2	0	
11	colftbase	N	2	0	
12	colftcli	N	2	0	
13	colft	N	2	0	
14	typefont	N	2	0	
15	typefont2	N	2	0	
16	att1font	N	2	0	
17	att1font2	N	2	0	
18	att2font				
19	att2font2				
20	typeline				
21	sizeline				
		N			

'COI	LORBIT' record			
No.	Description	Т	Size in bytes	Default value
1	Record type	С	8	COLORBIT
2	B41 expression or text: color state to 0	N	2	23
3	B41 expression or text: color state to 1	N	2	2
4	B41 expression or text: color invalid state	N	2	5
5	B41 line or background text: color state to 0	N	2	25
6	B41 line or background text: color state to 1	N	2	25
7	B41 line or background text: color invalid state	N	2	25

	LORWDWALARMO' to 'COLOR		1	T T
No.	Description	Т	Size in bytes	Value
1	Record type	С	13	COLORWDWALARM
2	B40 alarm priority (0 to 15)	N	2	n
3	B40 expression or text: alarm	N	2	2
	color inactive			
4	B40 expression or text alarm color not Ack	N	2	4
5	B40 expression or text alarm color present acknowledged	N	2	4
6	B40 expression or text color missing alarm not Ack	N	2	6
7	B40 expression or text color invalid alarm	N	2	5
8	B40 expression or text fixed/blinking alarm inactive	N	2	0
9	B40 expression or text fixed/blinking alarm not Ack	N	2	1
10	B40 expression or text fixed/blinking alarm On acknowledged	N	2	0
11	B40 expression or text fixed/blinking alarm Off not Ack	N	2	1
12	B40 expression or text fixed/blinking alarm Off invalid	N	2	0
13	B40 line or background text color alarm inactive	N	2	25
14	B40 line or background text color alarm has not Ack	N	2	25
15	B40 line or background text color alarm On Ack	N	2	25
16	B40 line or background text color missing alarm not Ack	N	2	25
17	B40 line or background text color alarm invalid	N	2	25
18	B40 line or background text fixed/blinking alarm inactive	N	2	0
19	B40 line or background text fixed advance alarm not Ack	N	2	0
20	B40 line or background text fixed/blinking alarm On Ack	N	2	0

21	B40 line or background text fixed/blinking alarm Off not Ack	N	2	0
22	B40 line or background text fixed/blinking alarm Off invalid	N	2	0
23	B40 supplementary flag 1: beep 2: auto-Ack to Off 4: auto-Ack to On	N	2	0

Rec	Recording to printer: 'PRINTER'				
No.	Description	Т	Size in bytes	Value	
1	Record type	С	7	PRINTER	
2	B184 Number (1 to 10)				
3	B184 in service (0 – No, 1 - Yes)				
4	B184 Print to:				
	0: Printer port				
	1: Communication port				
	2: File				
	3: Spooler				
5	B184 port number (0 to n)				
6	B184 speed (if serial printer)			6	
	0: BaudRate = 110				
	1: BaudRate = 300				
	2: BaudRate = 600				
	3: BaudRate = 1200				
	4: BaudRate = 2400				
	5: BaudRate = 4800				
	6: BaudRate = 9600				
	7: BaudRate = 9600				
7	B184 equity (if serial printer)			0	
	0: Parity = PIO_NO_PARITY;				
	1: Parity = PIO_EVEN_PARITY;				
	2: Parity = PIO_ODD_PARITY;				
	3: Parity = PIO_MARK_PARITY;				
	4: Parity = PIO_SPACE_PARITY;				
8	B184 Data bits (if serial printer)			3	
	0: ByteSize = 5;				
	1: ByteSize = 6;				
	2: ByteSize = 7;				
	3: ByteSize = 8;				

9	B184 Stop Bits (if serial printer) 0: StopBits = PIO_ONE_STOP_BIT;		0
	break;		
	1: StopBits =		
	PIO_ONE_5_STOP_BITS; break;		
	2: StopBits =		
	PIO_TWO_STOP_BITS; break;		
10	B184 flow control (if printing to		
	communication port)		
	0: Flow = PIO_DTR_DSR; break;		
	1: Flow = PIO_RTS_CTS; break;		
	2: Flow = PIO_XON_XOFF; break;		
11	Unused		
12	B184 file name (if printing to file)		
13	B184 printer name (if print spooler)		
14	B184 printer port		
15	B184 spooling folder		
16	B184 automatic flag		

'CO	LORWDWHISTO' record			
No.	Description	Т	Size in bytes	Value
1	Record type	С	13	COLORWDWHISTO
2		N	2	
3		N	2	
4	B45 text: forcing color	N	2	7
5	B45 text: start/end color in log list	N	2	7
6		N	2	
7		N	2	
8	B45 fixed / blinking for forcing	N	2	0
9	B45 fixed / blinking start/end log list blinking	N	2	0

'ALA	ARM' record			
No.	Description	Т	Size in	Value
			bytes	
1	Record type	С	5	ALARM
2		N	2	0
3	B43 color of toolbar	N	2	48
4	B43 height of toolbar	N	2	30
5		N	2	
6		N	2	
7		N	2	
8		N	2	
9		N	2	
10		N	2	
11		N	2	
12		N	2	
13	B43 behavior: Ack flag	N	2	1
14	B43 toolbar flag (bit 0), previous flag (bit 1)	N	2	1
15	B43 alarm filters: flag inactive	N	2	1
16	B43 alarm filters: flag On not Ack	N	2	1
17	B43 alarm filters: flag On Ack	N	2	1
18	B43 alarm filters: flag missing not Ack	N	2	1
19	B43 alarm filters: flag invalid	N	2	1
20	B43 printing: printer number	N	2	0
21	B43 alarm filters: alarms start level	N	2	0
22	B43 alarm filters: alarms end level	N	2	15
23	B43 command buttons color	N	2	0

24	B43 text background color -	N	2	48
	command buttons			
25	B43 appearance - command buttons	N	2	7
26	B43 policy for command buttons	N	2	5
27	B43 behavior: masking/unmasking	N	2	1
	flag			
28	B43 behavior: filtering flag	N	2	1
29	B43 number of characters per line	N	2	0
30		N	2	0
31	B43 policy (no. in list starting at 0)	N	2	0
32	B43 operation at startup	N	2	1
	flag? (bit 0)			
	flow control flag / list (bit 1)			
33		N	2	0

'ALA	'ALARM2' record				
No.	Description	Т	Size in bytes	Value	
1	Record type	С	6	ALARM2	
2	B43 display format	С	81		
3	B43 blinking background color (2nd_field)	N	2		

'COI	'CONSI' and 'JBORD' records				
No.	Description	Т	Size in bytes	Value	
1	Record type	С	5	CONSI JBORD	
2	Appearance: log window background (1 field)	N	2		
3	Appearance: log window bar color	N	2		
4	Appearance: log window bar height	N	2		
5		N	2		
6		N	2		
7		N	2		
8		N	2		
9		N	2		
10		N	2		
11		N	2		
12		N	2		
13		N	2		
14	Appearance: log window printer no.	N	2		

		T	
15	Appearance: log window	N	2
	flag On Ack (bit 1)		
	flag On not Ack (bit 2)		
	flag inactive (bit 3)		
	flag Off not Ack (4 bit)		
	flag invalid (bit5)		
	flag acknowledgements, bit6)		
16	Appearance: log window	N	2
	flag to 0 (bit 1)		
	flag to 1 (bit 2)		
	flag invalid (bit 3)		
17	Appearance: log window	N	2
	forcing flag (bit 0)		
	program flag (bit 1)		
18	Appearance: log window start/finish	N	2
	flag		
19	Appearance: log window change	N	2
	comment flag		
20	Appearance: log window filters flag	N	2
21	, pp-caractering	N	2
22		N	2
23	Appearance: log window color of	N	2
23	control buttons text	'	
24	Appearance: log window command	N	2
	buttons text background color	'	
25	Appearance: log window command	N	2
25	buttons appearance (no. in list	IN .	
	starting at 0)		
26	<u> </u>	N	2
20	Appearance: log window command	IN	
	buttons font (no. in list starting at		
27	0)	N.I	2
27		N	2
28		N	2
29	Appearance: log window number of	N	2
	characters per line		
30		N	2
31	Appearance: log window policy (no.	N	2
	in list starting at 0)		
32		N	2
33		N	2

'COI	'CONSI2' record				
No.	Description	Т	Size in bytes	Value	
1	Record type	С	6	CONS12	
2	B44 display format	С	81		

3	B44 background color blinking (2nd	N	2	
	field)			

'TRI	END1' record			
No.	Description	Т	Size in bytes	Value
1	Record type	С	5	TREND1
2	Appearance: trend window curves area border thickness	N	2	
3		N	2	
4	Appearance: window trend curve area border line type	N	2	
5	Appearance: window trends 2 color border	N	2	
6	Appearance: trend window curves area left-hand thickness	N	2	
7	Appearance: trend window curves area right-hand thickness	N	2	
8	Appearance: trend window curves area top thickness	N	2	
9	Appearance: trend window curves area bottom thickness	N	2	
10	Appearance: window trend curves area line type (no. in list starting at 0)	N	2	

'TRI	END2' record			
No.	Description	Т	Size in bytes	Value
1	Record type	С	6	TREND2
2	Appearance: window trends 2 color curves area	N	2	
3	Appearance: window trends 2 scale grid	N	2	
4	Appearance: trend window curves area cursor color	N	2	
5	Appearance: trend window curves area cursor thickness	N	2	
6	Appearance: window trend curve area slider stroke type	N	2	
7		N	2	

'TRI	END3' record			
No.	Description	Т	Size in bytes	Value
1	Record type	С	6	TREND3
2	Appearance: trend window 2 scales division V	N	2	
3	Appearance: trend window 2 colors divisions	N	2	
4	Appearance: trend window curves area thickness div H	N	2	
5	Appearance: window trend curve area line type div H	N	2	
6	Appearance: trend window 2 scale division H	N	2	
7		N	2	
8	Appearance: trend window curves area thickness div V	N	2	
9	Appearance: trend window curves area line type div V	N	2	
10	Appearance: trend window 2 scales in division V	N	2	
11	Appearance: trend window 2 colors in divisions	N	2	
12	Appearance: trend window curves area thickness in div H	N	2	
13	Appearance: trend window curve area trend type in div H type	N	2	
14	Appearance: trends window 2 scales in division H	N	2	
15		N	2	

16	Appearance: trend window curves	N	2	
	area thickness in div V			
17	Appearance: trend window curve	N	2	
	area curve type in div V			

'TRI	'TREND4' record					
No.	Description	Т	Size in bytes	Value		
1	Record type	С	6	TREND4		
2	Appearance: trend window 2 curve valid color 1	N	2			
3	Appearance: trend window 2 curve valid thickness 1	N	2			
4	Appearance: window trend curve 2 valid line type 1	N	2			
5	Appearance: trend window 2 curve invalid color 1	N	2			
6	Appearance: trend window 2 invalid curve line type 1	N	2			
7	3	N	2			
8	Appearance: trend window 2 markers color 1	N	2			
9	Appearance: trend window 2 markers line type 1	N	2			
10	Appearance: trend window 2 curve valid color 2	N	2			
11	Appearance: trend window 2 curve valid thickness 2	N	2			
12	Appearance: window trend curve 2 valid line type 2	N	2			
13	Appearance: trend window 2 curve invalid color 2	N	2			
14	Appearance: trend window 2 invalid curve line type 2	N	2			
15		N	2			
16	Appearance: trend window 2 markers color 2	N	2			
17	Appearance: trend window 2 markers line type 2	N	2			
18	Appearance: trend window 2 curve valid color 3	N	2			
19	Appearance: trend window 2 curve valid thickness 3	N	2			
20	Appearance: window trend curve 2 valid line type 3	N	2			
21	Appearance: trend window 2 curve invalid color 3	N	2			

22	Appearance: trend window 2 invalid curve type line 3	N	2
23		N	2
24	Appearance: trend window 2 markers color 3	N	2
25	Appearance: trend window 2 markers line type 3	N	2
26	Appearance: trend window 2 curve valid color 4	N	2
27	Appearance: trend window 2 curve valid thickness 4	N	2
28	Appearance: trend window curve 2 valid line type 4	N	2
29	Appearance: trend window 2 curve invalid color 4	N	2
30	Appearance: trend window 2 invalid curve line type 4	N	2
31	-	N	2
32	Appearance: trend window 2 markers 4 color	N	2
33	Appearance: trend window 2 markers line type 4	N	2

'TRI	'TRD4SECOND' record							
No.	Description	Т	Size in bytes	Value				
1	Record type	С	12	TREND4SECOND				
2	Appearance: trend window 2 curve valid color 5	N	2					
3	Appearance: trend window 2 curve valid thickness 5	N	2					
4	Appearance: window trend 2 curve valid line type 5	N	2					
5	Appearance: trend window 2 curve invalid color 5	N	2					
6	Appearance: trend window 2 curve invalid line type 5	N	2					
7		N	2					
8	Appearance: trend window 2 markers color 5	N	2					
9	Appearance: trend window 2 markers line type 5	N	2					
10	Appearance: trend window 2 curve valid color 6	N	2					
11	Appearance: trend window 2 curve valid thickness 6	N	2					

'TRI	05' record			
No.	Description	Т	Size in bytes	Value
1	Record type	С	6	TRD5

	T		
2	Appearance: trend window 2 color bar	N	2
3	Appearance: trends window bar left the bar width	N	2
4	Appearance: trends window bottom bar height	N	2
5	Appearance: trend window buttons color text time	N	2
6	Appearance: trend window buttons color background time	N	2
7	Appearance: trend window buttons display time	N	2
8	Appearance: trend window buttons policy time	N	2
9	Appearance: trend window buttons names text color	N	2
10	Appearance: trend window buttons names background color	N	2
11	Appearance: trend window buttons names aspect	N	2
12	Appearance: trend window buttons name policy	N	2
13		N	2
14		N	2
15		N	2
16		N	2
17		N	2
18		N	2
19		N	2
20		N	2
21	Appearance: trend window 2 scale unit length (no. in list starting at 0)	N	2
22	Appearance: trend window 2 scale length X	N	2
23	Appearance: trend window 2 scale screen refresh	N	2
24		N	2
25		N	2
26	Appearance: trend window buttons flag names text (bit 0) flag names background (bit 1) flag values text (bit 2) flag values background (bit 3)	N	2
27	J J (****/	N	2
28	Appearance: trend window bar left- hand width of buttons	N	2
29		N	2
30		N	2

31		N	2	
32	Appearance: trend window buttons	N	2	
	text color values			

'TRI	'TRD6' record					
No.	Description	Т	Size in bytes	Value		
1	Record type	С	6	TREND6		
2		N	4			
3		N	4			
4	Appearance: trend window 2 scale unit of length (no. in list starting at 0)	N	2			
5		N	2			
6	Appearance: trend window 2 scale screen refresh	N	2			

'DEI	'DEFUSER' record						
No.	Description	Т	Size in bytes	Value			
1	Record type	С	7	DEFUSER			
2	B50A access rights	N	4				
3	B50B command rights	N	4				
4	B50C tracking rights	N	4				
5	B50E acknowledgement rights	N	4				
6	B50F recipe rights	N	4				

'USI	'USER' record					
No.	Description	Т	Size in bytes	Value		
1	Record type	С	4	USER		
2	User	С	12			
3	Password	С	12			
4	Access rights Access rights (bit 0) Control and acknowledge (bit 1) Monitoring (bit 2) Quit the project (bit 3) Help (4 bit) Installation (bit 5) Appearance: (6 bit) Administration (bit 7) Office (8 bit) Recipe (9 bit)	N	4			

5	Run-time rights	N	4	
	Level 0 (bit 0)			
	Level 1 (bit 1)			
	Level 2 (bit 2)			
	Level 3 (bit 3)			
	Level 4 (4 bit)			
	Level 5 (bit 5)			
	Level 6 (6 bit)			
	Level 7 (bit 7)			
	Level 8 (8 bit)			
	Level 9 (9 bit)			
6	Monitoring rights	N	4	
	Level 0 (bit 0)			
	Level 1 (bit 1)			
	Level 2 (bit 2)			
	Level 3 (bit 3)			
	Level 4 (4 bit)			
	Level 5 (bit 5)			
	Level 6 (6 bit)			
	Level 7 (bit 7)			
	Level 8 (8 bit)			
	Level 9 (9 bit)			
7	Acknowledgement rights	N	4	
'	Level 0 (bit 0) level 10 (bit 10)	14	-	
	Level 1 (bit 1) level 11 (bit 11)			
	Level 2 (bit 2) level 12 (bit 12)			
	Level 3 (bit 3) level 13 (bit 13)			
	Level 4 (bit 4) level 14 (bit 14)			
	Level 5 (bit 5) level 15 (bit 15)			
	Level 6 (bit 6)			
	Level 7 (bit 7)			
	Level 8 (bit 8)			
	Level 9 (bit 9)	N.I	1	
8	Recipe rights	N	4	
	Management (bit 0)			
	Backup (bit 1)			
	Creation (bit 2)			
	Change (bit 3)			
	Time real (4 bit)			
	Monitoring (bit 5)			
	7 (bit 6)			
	8 (bit 7)			
	9 (bit 8)			
	10 (bit 9)			

'LANGUAGE' record				
No.	Description	Т	Size in	Value
			bytes	

1	Record type	С	8	LANGUAGE
2	B27 bilingual: name of first	С	40	
	language			
3	B27 bilingual: name of second	С	40	
	language			

	N' RECORD	1_	T = -	T
No.	Description	Т	Size in bytes	Value
1	Record type	С	3	WIN
2	B24 main window X start	N	4	
3	B24 main window Y start	N	4	
4	B24 main window width	N	4	
5	B24 main window height	N	4	
6	B24 main window background color	N	2	
7	B24 main window - window flag Edge (bit 0) System menu (bit 1) Reduction (bit 2) Expansion (bit 3) Title (bit 4) Closure (bit 5) Switch (bit 6) Move (bit 7) Size (bit 8) B25 Window Editor window flag Auto palette (bit 9) Auto tools (bit 10) Foreground palette (bit 11) Foreground tools (bit 13)	N	2	
8	Other debug flag (unused)	N	2	
9	Administer settings Use of palette Run (bit 1) Auditing rules Audit user_program (bit 3) Photo (4 bit)	N	2	
10	MAPTrace	N	2	
11_	MAPTraceSI	N	2	
12	Appearance: Window Editor edge selection	N	2	
13	Administer settings system information in title bar	N	2	
14	Administer settings base timer period	N	2	
15	unused (0)	N	2	

16	unused (0)	N	2	
17	Administer bilingual choice of	N	2	
	alternative language (0 or 1)			
18	Administer bilingual choice of	N	2	
	bilingual mode (0 or 1)			
19	Monitoring of all variables (1)	N	2	
20	Administer numbering settings	N	2	
	for dialog boxes			
21	B49 settings: period for saving	N	2	
	internal variables			
22	B49 settings: number of backup	N	2	0-3
	of configuration			
23	B49 settings: size of the cache	N	2	0-99
	of windows			
24	Setting photo audit period	N	2	
25	Setting audit delay	N	2	
26	B49 setting threshold of infinite	N	2	
	loop for programs			

'WA	TCHDOGMAIN' record			
No.	Description	Т	Size in bytes	Value
1	Record type	С	12	WATCHDOGMAIN
2		N	4	
3		N	4	
4		N	4	
5	Adjustment to audit time-out, causing exit from SV (3)	N	4	
6	Adjustment to audit time-out, causing exit from SV (4)	N	4	
7	Adjustment to audit time-out, causing exit from SV (5)	N	4	
8	Adjustment to audit time-out, causing exit from SV (6)	N	4	
9	Adjustment to audit time-out, causing exit from SV (7)	N	4	
10	Adjustment to audit time-out, causing exit from SV (8)	N	4	
11	Unused	N	2	0

TUN	TUNING0 record					
No.	Description	Т	Size in bytes	Value		
1	Record type	С	7	TUNINGO		
2		N	4			
3	Unused	N	4	0		

4	Unused	N	4	0
5	Unused	N	4	0
6	Unused	N	4	0
7	Unused	N	4	0
8	Unused	N	4	0
9	Unused	N	4	0
10	Unused	N	4	0
11	Unused	N	4	0

'TUI	'TUNING1' record					
No.	Description	Т	Size in bytes	Value		
1	Record type	С	7	TUNING1		
2	Conversion to exponential notation (6 by default)	N	2	6,7,8,9		
3	Max. number of messages queued in the link-list	N	4			
4	Unused	N	2	0		
5	Unused	N	2	0		
6	Unused	N	2	0		
7	Unused	N	2	0		
8	Unused	N	2	0		
9	Unused	N	2	0		
10	Unused	N	2	0		

'TUI	NING2' record			
No.	Description	Т	Size in bytes	Value
1	TUNING2	С	7	TUNING2
2	Audit 4: photos period (seconds)	N	2	
3	Audit 4: TimerProg delay (ms)	N	2	
4	Threshold of infinite loop for programs (seconds)	N	2	
5	Time limits for printer (seconds)	N	2	
6	Number of rows to print per period (all printers)	N	2	
7	Initial state of the internal variables (0 HS, 1 for 0, 2 for 1)	N	2	

8	Separator for alarm registers: domain/nature	С		
9	AUDIT without BEEP	N	2	
10	AUDIT periodcomeqt	N	2	
11	Audit 4: Period of mini	N	2	
	photos (seconds)			

'TUI	NING3' record			
No.	Description	Т	Size in bytes	Value
1	Record type	С	7	TUNING3
2		N	2	
3		N	2	
4		N	2	
5		N	2	
6		N	2	
7		N	2	
8		N	2	
9		N	2	
10		N	2	
11		N	2	
12	B47D send recipes even if a variable is NS	N	2	

'TUI	NING4' record			
No.	Description	Т	Size in bytes	Value
1	Record type	С	7	TUNING4
2	Processing overflows: 0 None 4 On physical value 3 On physical value with smoothing 2 On equipment value 1 On equipment value with smoothing	N	1	
3	Overflow processing: lower limit per thousand	N	4	
4	Overflow processing: upper limit per thousand	N	4	
5	Unused (freemem)			
6	Unused (freeseg)			
7	Dialog boxes: distance from corner of screen: width	N	4	

8	Dialog boxes: distance from corner of screen: height	N	4	
9	Dialog boxes: initial position of a corner of box 0 standard 1 top left 2 top right 3 lower left 4 lower right	N	1	
10	Unused	N	2	0
11	Unused	N	2	0

'TUI	VING5' record			
No.	Description	Т	Size in bytes	Value
1	Record type	С	7	TUNING5
2		N	2	
3		N	2	
4		N	2	
5		N	2	
6		N	2	
7		N	2	
8		N	2	
9		N	2	
10		N	2	
11	Unused	N	2	0

'TUI	'TUNING6' record						
No.	Description	Т	Size in bytes	Value			
1	Record type	С	7	TUNING6			
2							
3							
4							
5							
6							
7							
8							
9							
10	Unused	N	2	0			
11	Unused	N	2	0			

'TUI	'TUNING7' record				
No.	Description	Т	Size in bytes	Value	
1	Record type	С	7	TUNING7	
2		N	2		
3		N	2		
4		N	4		
5	Unused	N	2	0	
6	Unused	N	2	0	
7	Unused	N	2	0	
8	Unused	N	2	0	
9	Unused	N	2	0	
10	Unused	N	2	0	
11	Unused	N	2	0	

'TUI	NINGV3' record			
No.	Description	Т	Size in bytes	Value
1	Record type	С	7	TUNINGV
2	FLAG1 (in hexadecimal: 0x0000 to 0x7FFF)	Н	6	
	0001 Unused (audit 4: Memory trace in caption)			
	0002 Unused (audit 4: Memory trace in log)			
	0004 Use version 2 of the Window Editor			
	0008 No accelerator for calling the Editor			
	0010 Color for Advanced Mode alarms			
	0020 Unused (audit 4: WIN last pixel)			
	0040 Unused (audit 4: OS2 end rounding)			
	0080 Unused (audit 4: show message numbers)			
	0100 Redirect the title of a secondary window to main			
	window			
	0200 Unused (audit 4: fast exit) 0400 Show only first of each type			
	of error 0800 Use version 2 for title format			
	1000 Do not change the operating system's cursor			
	2000 Use associations			
	4000 Allow the reading of			
	PARAM.DAT file in LIB			

3	FLAG2 (in hexadecimal: 0x0000 to 0x7FFF) 0001 Allow pop-up windows 0002 Allow substitutions 0004 Monitor the configuration files 0008 Renumbering of communication objects 0010 Allow extended attributes 0020 Continuous poll for all variables 0040 Reserved 0080 Reserved 0100 Pass invalid if not continuously polled variables 0200 Reserved	N	2	
14	Unused	N	1	0

'PAI	'PAL' record				
No.	Description	Т	Size in bytes	Value	
1	Record type	С	3	PAL	
2	Positioning in X	N	4		
3	Positioning in Y	N	4		
4	Width of palette	N	4		
5	Height of palette	N	4		
6	Number of columns (unused)	N	2		
7	Flag (unused)	N	2		

'TB	'TBXD' record				
No.	Description	Т	Size in bytes	Value	
1	Record type	С	4	TBXD	
2	Identifies first button on Drawing toolbar	N	2		
3	Identifies the second button on the Drawing toolbar	N	2		
4					
n + 1	Identifies the <i>n</i> th button on the Drawing toolbar	N	2		

'TB	'TBXA' record				
No.	Description	Т	Size in bytes	Value	
1	Record type	С	4	TBXD	
2	Identifies first button on Animations toolbar	N	2		
3	Identifies second button on Animations toolbar	N	2		
4					
n + 1	Identifies <i>n</i> th button on Animations toolbar	N	2		

'TB)	'TBXE' record					
No.	Description	Т	Size in bytes	Value		
1	Record type	С	4	TBXD		
2	Identifies first button on Runtime toolbar	N	2			
3	Identifies second button on Runtime toolbar	N	2			
4						
n + 1	Identifies nth button on Runtime toolbar	N	2			

'TO	'TOOLSD', 'TOOLSA' and 'TOOLSS' records				
No.	Description	Т	Size in bytes	Value	
1	TOOLSD (for Design) TOOLSA (to Animation) TOOLSS (to Runtime)	С	6		
2	Positioning in X axis	N	4		
3	Positioning in Y axis	N	4		

4	Width of bar	N	4	
5	Height of bar	N	4	
6	Name of toolbar's bitmap	С	131	
7	Offset	N	2	
8	X base	N	2	
9	Y base	N	2	
10	Background color	N	2	

TBX	TBXDPS, TBXAPS TBXEPS record					
No.	Description	Т	Size in bytes	Value		
	Record type	С	6	TBXDPS TBXAPS TBXEPS		
	Positioning on X axis	N	4			
	Positioning on Y axis	N	4			
	Width of bar	N	4			
	Height of bar	N	4			

'VAI	'VARFORMATCONFIG' record				
No.	Description	Т	Bytes	Value	
1	Record type	С	15	VARFORMATCONFIG	
2	B60 variables file format	N	2	1-3	
	1 = Binary				
	2 = Compressed				
	3 = Extended				

'VAI	'VARCONFIGFILE' record				
No.	Description	T	Bytes	Value	
1	Record type	С	13	VARCONFIGFILE	
2	B60 variables file name	С	132		

'VAI	RINCLUDEDFILES' record			
No.	Description	T	Bytes	Value
1	Record type	С	13	VARINCLUDEDFILES

2	B60A Inclusion in VAREXP following	С	132	var\vntov .hxx
	files:			
	Bit 0: ACTION			
	Bit 1: EVENT			
	Bit 2: CYCLIC			
	Bit 3: HISTO			
	Bit 4: COMM			
	Bit 5: FORMULA			
	Bit 6: KEY			
	Bit 7: EXPRM			
	Bit 9: EXPRV			
	Bit 10: TABLE			

'VARIMPORTFILES' record					
No.	Description	Т	Bytes	Value	
1	Record type	С	14	VARIMPORTFILES	
2 to 22	B59 Import: name of the import	С	132		
	file to no.1 to no.20				

'MEI	'MENU' record				
No.	Description	Т	Size in bytes	Value	
1	Record type	С	4	MENU	
2	MENU window: X position	N	4		
3	Y position	N	4		
4	Width	N	4		
5	Height	N	4		
6	B25 Editor window edge selection (2-16)	N	2		
7	B25 Window Editor composite edge selection (2-16)	N	2		

'COI	'COLORS' record				
No.	Description	Т	Size in bytes	Value	
1	Record type	С	6	COLORS	
2	B25 Window Editor color shade	N	2		
3	B25 Window Editor color top of buttons	N	2		
4	B25 Window Editor color down buttons	N	2		
5	B25 Windows Editor drawing cursor	N	2		
6	B25 appearance of Window Editor multiple entries	N	2		
7	B21 show Window Editor at start- up	N	2	0/1	
8	B21 start-up mode 0 = Drawing 1 = Animation 2 = Runtime	N	2	0-2	
9	B25 Window Editor cursor mode	N	2		
10	B25 Window Editor mode without mouse	N	2		

'BLINK' record				
No.	Description	Т	Size in bytes	Value
1	Record type	С	5	BLINK
2	B47 blinking in the primary animations	N	4	800 a 4000
				ms

3	B47 blinking in the secondary	N	4	800-
	animations			4000
				ms
4	B47 period of visibility for pop-ups	N	4	Ms
5	B47 period of visibility for Reference	N	4	Ms
	Set			

'LIB	'LIBRARY' record				
No.	Description	Т	Size in bytes	Value	
1	Record type		7		
2	Folder (8 + 3)		12		
3	Library name		20		
4	Library name (alternative language)		20		
5	Common library indicator (in SV\LIB)		1		
6	Previous library indicator		1		
7	Commitment		1		
8	Write permission Active if no editing rights or 'Commitment'		1		
9	Read permission Active if no editing rights or 'Commitment'		1		
10	Flags (reserved)		3		

'OP	CSVR' record			
No.	Description	Т	Bytes	Value
1	Record type	С	14	OPCSVR
2	Display the properties of variables in	N	1	0: Non-
	the server's address space			1: Yes
3	Security mode of OPC Server	N	1	0: Disable
				security
				1: Disable the
				server
				2: Use
				authentication
4	Allow entries	N	1	0: Non-
				1: Yes
5	Allow browsing	N	1	0: Non-
				1: Yes
6	Record entry type operator actions	N	1	0: Non-
				1: Yes
7	Record operator actions of type	N	1	0: Non-
	start/end of session			1: Yes

'RGB' record				
No.	Description	Т	Size in bytes	Value
1	Registration type	С	3	RGB
2	Color index	N	2	32-63
3	Red level (RED, 0-255)	N	2	
4	Green level (GREEN, 0-255)	N	2	
5	Blue level (BLUE, 0-255)	N	2	
6	-1 if color is invisible	N	2	
	1 to <i>n</i> if color is visible			

Miscellaneous

ALARMACKNOWLEDGMENT_BOTH

New behavior for alarms. Acknowledge alarm coming On or going Off. If the alarm goes Off and it was acknowledged, this should be put in the state Off NOT acknowledged.

Initializing internal alarms

User-configured in Configure/Admin./Settings

The information is saved as follows:

INTERNAL_ALARM_INIT, 0 if alarm initialized as invalid INTERNAL_ALARM_INIT, 1 if alarm initialized as inactive

SEQUENCINGWRITE

New behavior of CIMWAY. enables or disables writing in parallel mode (non-blocking writes between equipment).

Sequencing of writes

Can be configured via SCADA Basic with the verb:

CIMWAY ("SEQUENCINGWRITE", "YES");

to disable parallel mode.

CIMWAY ("SEQUENCINGWRITE", "NO");

to enable parallel mode.

The information is saved as follows (without backup when the mode is forced in SCADA Basic):

SEQUENCINGWRITE, 0

if parallel mode is active

SEQUENCINGWRITE, 1

if parallel mode is inactive