

File Format of Action.dat

UPDATES

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1.0	OZ	Creation		05/12/1993	
2.0	JCW	Update	Import format for the alarm associated actions	10/18/2003	
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Location of the configuration file

The associated actions configuration file "ACTION.DAT" is saved in the subfolder C – Ctemp – Ctemp\Bak of the project folder.

The format for the version 10.0 & later

The format of the bilingual texts on buttons for the actions associated for each alarm

This is integrated into each alarm action format.

The format of the alarm associated action of type PROGRAM

No	Description	T	Size (bytes)	Value
1	Entry type header (mandatory)	C	16	ASSOCIATEDACTION
2	Type of action (action associated with alarm)	C	7	AAALARM
3	Nature of action	C	7	PROGRAM
4	Name	C		<i>See the following note</i>
5	Alarm variable name	C	256	
6	Button for selection (LB = left button, RB = right button)	C	2	LB or RB
7	Object origin 0 = local Not 0 = 3 rd party objects	N	2	
8	Object version number	N	2	
9	Program - The name of the SCADA BASIC program which contains the function to execute.	C	12	
10	Branch – The database branch to be used by the function. (Optional)	C	256	
11	Function - The function to be executed.	C	30	

12	Arguments - A list of arguments for the function. These may be retrieved using the GETARG instruction.	C	255	
13	Description text in language 1 on button	C	256	
14	Description text in language 2 on button	C	256	

Where: the action object type is determined by the fields 1, 2 & 3; the action object identifier is specified by the fields 4.

Note: the Name should be composed of the underscore ‘_’ and the fields 5 & 6.

For example: let the field 5 be “Branch1.Var” and the field 6 as “LB” (action 1), then the name should be “Branch1_Var_LB”.

The format of the alarm associated action of type WINDOW

No	Description	T	Size (bytes)	Value
1	Entry type header (mandatory)	C	16	ASSOCIATEDACTION
2	Type of action (action associated with alarm)	C	7	AAALARM
3	Nature of action	C	6	WINDOW
4	Name	C		<i>See the following note</i>
5	Alarm variable name	C	256	
6	Button for selection (LB = left button, RB = right button)	C	2	LB or RB
7	Object origin 0 = local Not 0 = 3 rd party objects	N	2	
8	Object version number	N	2	
9	Window – The name of the mimic window to be opened.	C	12	

10	Branch – The database branch to be used by the window. (Optional)	C	256	
11	Description text in language 1 on button	C	256	
12	Description text in language 2 on button	C	256	

Where: the action object type is determined by the fields 1, 2 & 3; the action object identifier is specified by the fields 4.

Note: the Name should be composed of the underscore ‘_’ and the fields 5 & 6.

For example: let the field 5 be “Branch2.Var” and the field 6 as “RB” (action 2), then the name should be “Branch2_Var_RB”.

The format of associated actions for discrepancy checking on bits

No	Description	T	Size (bytes)	Value
1	Entry type header (mandatory)	C	16	ASSOCIATEDACTION
2	Type of action (action associated with discrepancy checking on bits)	C	13	AADISCREPANCY
3	Alarm or Bit variable name	C	256	
4	Object version number	N	2	
5	Bit variable name to test on command to 0	C	256	
6	Value of the bit variable to test on command to 0	N	2	0/1
7	Bit variable name to test on command to 1	C	256	
8	Value of the bit variable to test on command to 1	N	2	0/1
9	Bit variable name to test on discrepancy	C	256	
10	Value of the bit variable to test on discrepancy	N	2	0/1
11	Delay in seconds	N	4	

Where: the action object type is determined by the fields 1 & 2; the action object identifier is the fields 3.

The format of associated actions for alarm acknowledgement trace

No	Description	T	Size (bytes)	Value
1	Entry type header (mandatory)	C	16	ASSOCIATEDACTION
2	Type of action (action associated with alarm acknowledgement trace)	C	6	AAAACK
3	Alarm variable name	C	256	
4	Object version number	N	2	
5	Bit or alarm variable name to force	C	256	
6	Value of the bit or alarm variable to force	N	2	0/1

Where: the action object type is determined by the fields 1 & 2; the action object identifier is the fields 3.

The format of associated actions of the overflow processing for the equipment registers

No	Description	T	Size (bytes)	Value
1	Entry type header (mandatory)	C	16	ASSOCIATEDACTION
2	Type of action (treatment action associated with register out of range)	C	10	AAOVERFLOW
3	Register variable name	C	256	
4	Object version number	N	2	

5	Bit variable name to force	C	256	
6	Value of the bit variable to force	N	2	0/1
7	Bit variable name to stop	C	256	
8	Value of the bit variable to stop	N	2	0/1

Where: the action object type is determined by the fields 1 & 2; the action object identifier is the fields 3.

The format for the version earlier than 10.0 (obsolete but read-only in version 10.0 & later)

The format of the bilingual texts on buttons for all alarm associated actions

No	Description	T	Size (bytes)	Value
1	Type of action (0 = action associated with alarm)	N	2	0
2	Text on the buttons for selection	C	3	PAR
3	Text in language 1 on button 1	C	40	
4	Text in language 2 on button 1	C	40	
5	Text in language 1 on button 2	C	40	
6	Text in language 2 on button 2	C	40	

The format of the alarm associated actions

No	Description	T	Size (bytes)	Value
1	Entry type header (optional)	C	6	ACTION, AAA or nothing
2	Type of action (0 = action associated with alarm)	N	2	0
3	Button for selection (LB = left, RB = right)	C	2	LB or RB
4	Alarm variable name	C	40	

5	Program/window flag (P= program, W= window)	C	1	P/W
6	Name of program or window	C	12	
7	Branch	C	30	
8	Function	C	30	
9	Arguments (in quotes)	C	255	
10	Server list name	C	40	
11	Client list name	C	40	
12	Origin of the object (0 if local, >0 if remote)	N	2	
13	Version number of the object	N	2	
14	Description	C	80	

The format of associated actions for discrepancy checking on bits

No	Description	T	Size (bytes)	Value
1	Entry type header (optional)	C	6	ACTION or nothing
2	Type of action (1 = action associated with discrepancy checking on bits)	N	2	1
3	Alarm or Bit variable name	C	40	
4	Bit variable name to test on command to 0	C	40	
5	Bit variable name to test on command to 1	C	40	
6	Value of the bit variable to test on command to 0	N	2	0/1
7	Value of the bit variable to test on command to 1	N	2	0/1

8	Bit variable name to test on discrepancy	C	40	
9	Value of the bit variable to test on discrepancy	N	2	0/1
10	Delay in seconds	N	4	

The format of associated actions for alarm acknowledgement trace

No	Description	T	Size (bytes)	Value
1	Entry type header (optional)	C	6	ACTION or nothing
2	Type of action (2 = action associated with alarm acknowledgement trace)	N	2	2
3	Alarm variable name	C	40	
4	Bit variable name to set	C	40	
5	Value of the bit variable to set	N	2	0/1

The format of associated actions of the overflow processing for the equipment registers

No	Description	T	Size (bytes)	Value
1	Entry type header (optional)	C	6	ACTION or nothing
2	Type of action (3 = treatment action associated with register out of range)	N	2	3
3	Register variable name	C	40	
4	Bit variable name to force	C	40	

5	Value of the bit variable to force	N	2	0/1
6	Bit variable name to stop	C	40	
7	Value of the bit variable to stop	N	2	0/1