

# **The formats of the expression templates and the expressions on variables**

---

The document describes the format of Expressions configuration

## UPDATES

Revision	Author	Action	Editing	Date	Distribution
1.0	JCW	Creation		06/27/2000	
2.0	JCW	Evolution	Enable, Enabling bit, Networking calculation & dynamic configuratio n distribution	08/23/2008	
2.1	JCW	Evolution	Updated	09/08/2008	
2.2a	JCW	Evolution	Updated	01/09/2011	
2.2	JCW	Evolution	Description length from 80 to 255	30/03/2017	From version 12.0 on

Information in this document is subject to change without notice and does not represent a commitment on the part of the supplier. The software described in this document is furnished under a license agreement. The software may be used or copied only in accordance with the terms of the agreement. It is against the law to copy software on any medium except as specifically allowed in the license agreement. The purchaser may make one copy of the software for backup purposes. No part of this manual may be reproduced or transmitted in any form or by any means, without the express permission of the supplier.

Whilst the utmost care is taken to ensure the accuracy of the data contained herein, it is provided on the understanding that the supplier shall under no circumstances, be liable for any injuries, expenses, or losses which may be in any way attributable to the use or adaptation of such data.

All trademarks duly acknowledged.

## Location of the expression template configuration file

The expression template configuration file “EXPRM.DAT” is saved in the subfolder C – Ctemp – Ctemp\Bak of the project folder.

## The format of the expression templates for the version 10.0 & later

N	Description	T	Size in bytes	Value
1	Type	C	18	EXPRESSIONTE MPLATE
2	Name – A free format mnemonic which will appear as an identifier in the list of defined expressions and is used to refer to an expression in an animation.	C	80	
3	Description	C	80  255 from version 12 on	
4	Object origin 0 = local Not 0 = 3 <sup>rd</sup> party objects	N	2	
5	Object version number	N	2	
6	Server list name	C	40	
7	Client list name (reserved)	C	40	
8	Enable flag  = 1 enabled, 0 disabled	C	1	
9	Enabling Bit - The name of a database bit which, if specified, must have a value of 1 to enable the calculation.	C	256	

10	Expression – The expression to be defined. The expression may contain any number of characters but is limited to 20 symbols. (Variables, operators, functions and constants). An expression may be continued onto 2 or more lines.	C	32000	

**The format of the expression templates for the version earlier than 9.0 (obsolete but read-only in version 10.0 & later)**

N	Description	T	Size in bytes	Value
1	Type	C	5	EXPRM
2	Name	C	80	
3	Expression	C	32000	
4	Reserved	C	40	
5	Reserved	C	40	
6	Object origin	N	2	0 : LOCAL >0 : CUSTOM
7	Object version	N	2	
8	Comment	C	80	

### **Location of the expression on variable configuration file**

The expression template configuration file “EXPRV.DAT” is saved in the subfolder C – Ctemp – Ctemp\Bak of the project folder.

## The format of expressions on variables for the version 10.0 & later

N	Description	T	Size in bytes	Value
1	Type	C	15	EXPRESSIONON VAR
2	Name – A free format mnemonic which will appear as an identifier in the list of defined expressions.	C	80	
3	Description	C	80  255 from version 12 on	
4	Object origin 0 = local Not 0 = 3 <sup>rd</sup> party objects	N	2	
5	Object version number	N	2	
6	Server list name	C	40	Not saved but got from the attribute of the result variable
7	Client list name (reserved)	C	40	
8	Enable flag  = 1 enabled, 0 disabled	C	1	
9	Enabling Bit - The name of a database bit which, if specified, must have a value of 1 to enable the calculation.	C	256	

10	Result variable – The variable in which the result of the expression is placed. The variable does not need the control property set.	C	256	
11	Branch – The database branch is applied to all elements in the expression ant the result variable.	C	256	
12	Expression – The expression to be defined. The expression may contain any number of characters but is limited to 20 symbols. (Variables, operators, functions and constants). An expression may be continued onto 2 or more lines.	C	32000	

**The format of expressions on variables for the version earlier than 10.0 (obsolete but read-only in version 10.0 & later)**

Format 1:

N	Description	T	Size in bytes	Value
1	Type	C	5	EXPRV
2	Result variable	C	40	
3	Expression	C	32000	
4	Branch	C	40	
5	Reserved	C	40	
6	Object origin	N	2	0 : LOCAL >0 : CUSTOM
7	Object version	N	2	
8	Comment	C	80	