Configuration Dialog Box (D2000/Structures and Databases /Structured Variable)

Structured variable - configuration dialog box

Editing of all objects in the process D2000 CNF is being performed in the configuration dialog box, a specific part of which is common for all editable objects and another part depends on the type of edited object.

Configuration dialog box of objects of *Structured variable* type consists of several parts (tabs), which contains similar parameters.

General properties
Groups
Parameters
Row

General properties

Description

A text string describing the structure definition. Maximum: 128 characters.
Possibility to use the Dictionary (to open press **CTRL+L**).

Parameters

Structure type

An object of Structure definition type. The object determines the structure type. If the structured variable is being used, then it is not possible to change the structure type.

Array length

The number of rows of the object value. Minimum: 1.

Warning!
If any structure is used, it is possible to decrease the array length (number of rows), but it can cause references to structure rows which do not exist.
Example:
There is an object of *Historical value* type, that archives the structure item on the row of 4. If the number of rows is decreased to 3, the given historical value has no value source. There is no warning about such situation!!!
You can experience a similar problem when indexing in Event. In this case, it is advisable to use the attribute */DIM* of the structured variable value.

Log changes*

Saves changes of the structure variable items into the log database.

Save start value*

Saves changes of start values of the structured variable into the configuration database as a new value. If the start value is text type, then a maximum of 200 bytes is stored into the configuration database in UTF-8 encoding.

Manual*

Allows to change an item value of the structured variable in process D2000 HI, using an event etc.

Item property

Definition of the item's contents - see the chapter **Structured variables** - figure - section 4.

The item **Row description** of this parameter allows to define a text description for each of the structure rows. Maximum: 50 characters. Description may be defined (empty text also) or disabled - to disable a description click the right mouse button on the description and select the item **Disable** from the local popup menu.
Description is used to give account of items of given row in graphs, control and information windows.
To retrieve the description of a structured variable row, use the action GETROWDESC.

Start value checkout

Start values of individual values are saved in text form. While the system starts, process D2000 Server assigns values to individual items according to the definition of their start value. Value of an item will be valid, if the conversion of the start value (text) to required type (according to the type of corresponding column) is successful. If the conversion is not successful, then a value of the item is invalid. It is possible to save a start value, that cannot be converted to

corresponding value type (except columns the value of which is of **Object** type). The button ⊞ will check all the start values (except columns the value of which is of **Object** type) and if the conversion fails, it displays an error message.
The way of start value record is mentioned here.

Insert rows per sample 📑

Inserts a copy of the current row below the actual row.

Delete row 📄

Deletes the current row.

* Configuration parameters are applied only in case that their inheritance level is deeper than 2 (Structure column, Structure item).

Configuration of parameters

Configuration of parameters of individual structure items is performed in the table:

Index	Value	Name
	Disabled	Disabled
1	Sec	Sec

where the row with undefined index represents the row of 0 (section 3). The other rows correspond to the structure items (section 4). Table displays and allows to configure just one type of a configuration parameter for all the structure items. Changing (selecting) a visible parameter is performed in the dropdown box:

Item property :	Start value ▼

Editing individual configuration parameters can be started by left-mouse-click on the corresponding parameter. According to the type of configuration parameters, its entry is performed either by typing into the input box or by selecting from the list.
To disable or inherit a configuration parameter from a parent level, right-mouse click on corresponding item and select one of the options:

> Inherit
>
> Disable

.

Switching between disable and transmission of configuration parameter for all cells within the column or row is possible by left-mouse-click above the column name, or row number

All the items in the table display selected configuration parameter. The source of a parameter value (disabled, defined on level 4, or on level 3) is shown in one of the colors:

Color for configuration parameter source
| Defined | Inherited | Disabled |

During editing configuration parameters, the user is allowed to divide the table into two or possibly four independent sections (analogous to Worksheet in MS Excel).

Table dividing

1. Point the mouse cursor to the left or bottom margin of the table.
2. When the cursor changes its shape to ⯮ or ⯬, drag the margin to the required position.

Note:
The keyboard shortcut **CTRL+C** inserts all currently visible parameters into the Clipboard. Then the parameters can be inserted into e.g. MS Excel.

Example:

Configuration window:

Index	Name	ComputerName	UpTime	Status	StatusTime
	Disabled	Disabled	Disabled	Disabled	Disabled
1	srvdev05	Disabled	Disabled	Disabled	Disabled
2	srvdev06	Disabled	Disabled	Disabled	Disabled
3	srvdev11	Disabled	Disabled	Disabled	Disabled
4	srvdev12	Disabled	Disabled	Disabled	Disabled
5	ws1pbre1	Disabled	Disabled	Disabled	Disabled
6	ws1gond1	Disabled	Disabled	Disabled	Disabled
7	ws1gond1	Disabled	Disabled	Disabled	Disabled

After copy to MS Excel (Open Office):

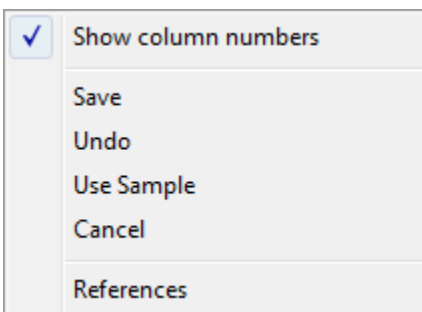|	A	B	C	D	E	F
1	Index	Name	Computer	UpTime	Status	StatusTime
2		Disabled	Disabled	Disabled	Disabled	Disabled
3	1	srvdev05	Disabled	Disabled	Disabled	Disabled
4	2	srvdev06	Disabled	Disabled	Disabled	Disabled
5	3	srvdev11	Disabled	Disabled	Disabled	Disabled
6	4	srvdev12	Disabled	Disabled	Disabled	Disabled
7	5	ws1pbre1	Disabled	Disabled	Disabled	Disabled
8	6	ws1gond1	Disabled	Disabled	Disabled	Disabled
9	7	ws1gond1	Disabled	Disabled	Disabled	Disabled

After modification, user can save the configuration parameters to CNF configuration window by Clipboard as follows:

1. Select whole table (section A1:H13). Press CTRL-C (Copy).
2. Select any row in table of parameters in CNF and press CTRL-V (Paste).

CNF checks column names and number of rows. In case of differences, it announces error and modification is not executed. It compares the modification within single cells on input. If some of the cells is modified, it's contents is copied to configuration. Modification of the way of configuration parameter transmission is not possible by this process.

Context menu

Context menu of structured variable contains both a group of options common to all objects and option **Show column numbers**. It sets the column number instead of a column name.

✓	Show column numbers
	Save
	Undo
	Use Sample
	Cancel
	References

Row

The tab **Row** provides a different view on the configuration parameters than the tab Parameters. Only one structure row is displayed, but with all the configuration parameters.

Currently visible row is adjusted by the spin button Row : 1 . Zero row (0) represents the configuration level 3.

Editing method and meaning of the colors of the configuration parameters is the same as in the tab Parameters.

ⓘ

Related pages:

[Structured variables](#)