

# Configuration Dialog Box (Device)

## Device - 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.

The configuration dialog box of objects of the *Device* type consists of several parts (tabs), which contain similar parameters.

[General properties](#)  
[Groups](#)  
[Parameters](#)  
[Row](#)

### General properties

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#### Description

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

#### Parameters

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#### Device type

An object of [Device definition](#) type that specifies the device type (its structure and items). The device type cannot be changed - it is set when creating the device by specifying the appropriate [Device definition](#) as a Parent.

#### Array size

For devices with an [Array Device Definition](#), it determines the number of array elements. The minimum value is 0.  
For devices with a [Structured Device Definition](#), this parameter is not used.

#### Warning!

If a device is used, it is possible to decrease the array length (number of rows), but it can cause references to the device rows that do not exist.

#### Example:

There is an object of *Historical value* type, that archives the device item on the 4th row. If the number of rows is decreased to 3, the given historical value has no value source. There is no warning about such a situation!!!

You can experience a similar problem when indexing in Event. In this case, it is advisable to use the *IDIM* attribute of the device variable value.

To edit individual configuration parameters, press the left mouse button above the corresponding parameter. According to the type of parameter, a value is entered either by typing into the input field or by selecting from the list.

#### Name

#### Log changes\*

Saves changes of the device items into the log database.

#### Save start value\*

Saves changes of start values of the device items into the configuration database as a new value.

#### Manual\*

Allows changing an item value of the device in process [D2000 HI](#), using an event, etc.

#### Item property

Definition of the item's contents - see the chapter **Devices** - [figure - section 3](#).

The item **Row description** of this parameter allows defining a text description for each of the device rows. Maximum: 50 characters. The 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.  
The description is used to give an account of items of a 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. The value of an item will be valid if the conversion of the start value (text) to a required type (according to the type of the corresponding column) is successful. If the conversion is not successful, then the value of the item is invalid. It is possible to save a start value, that cannot be converted to the corresponding value type (except columns the value type of which is [Object](#), [Internal Item](#) or [Device](#)). The button will check all the start values (except columns the value type of which is [Object](#), [Internal Item](#) or [Device](#)) 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 if their inheritance level is deeper than 2 (Device item).

## Configuration of parameters

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

Index	Value	Name
	Disabled	Disabled
1	Sec	Sec

The rows correspond to the device items ([level 3](#)). Table displays and allows to configure just one type of a configuration parameter for all the device 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 the corresponding item and select one of the options:

Inherit

Disable



All the items in the table display the selected configuration parameter. The source of a parameter value (disabled, defined 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

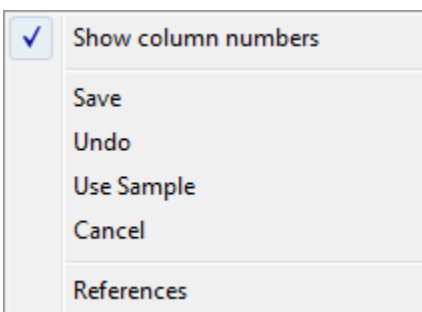
After modification, the user can save the configuration parameters to the CNF configuration window by Clipboard as follows:

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

CNF checks column names and the 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 cell is modified, its content is copied to the configuration. Modification of the way of configuration parameter inheritance is not possible by this process.

## Context menu

Context menu of the 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.



## Row

The **Row** tab provides a different view of the configuration parameters than the [Parameters](#) tab. Only one structure row is displayed, but with all the configuration parameters.

The currently visible row is adjusted by the spin button **Row :** . Row zero (0) represents configuration level [3](#).

The editing method and meaning of the colors of the configuration parameters are the same as in the [Parameters](#) tab.



**Related pages:**

[Device definition](#)