

# Logging Parameters (D2000)

## Event logging in the system

The "Log database" dialog box in the [D2000 CNF](#) process allows setting the log database parameters. The dialog box contains a table comprising the following columns:

- **Event** - category of system events,
- **Log** - [Yes/No] - enables/disables logging particular event into the log database,
- **History depth [days]** - [0-3650] - writing period of event into the log database (in days). Configuration of history depth in D2000 version V21.1 R73 is moved into corresponding objects of type [Data purpose](#).
- **Use device** - [Yes/No] - enables/disables event logging to output device,
- **Device** - the name of an output device. The output device is the type of device, where logged data will be written. There are these types of output devices:
  - PRN, LPT1, LPT2 - output to a specified printer,
  - `FileName.Ext` - saving to a text file of a given name. From V21.1 version, it is possible to use Windows environment variables. Usage example: "% userprofile%\Monitoring\logon.txt". When writing to a file, the existence of directories is checked and the missing directory is created. Here, for example, the "Monitoring" directory. The file size is controlled by the `max_log_size` parameter that is described in the [Special Settings](#) chapter.

Event category	Data purpose object	System events
Alarms	AlarmLogging	All changes of alarm states (information about particular alarm states and their changes, see the online guide <b>D2000 System Configuration</b> - topic <b>Alarm states</b> ).
System	SystemLogging	Start and stop of the D2000 system Operator's logon into the D2000 system (logon with incorrect name or password).
Process	ProcessLogging	All status changes of the D2000 system processes (e.g. start, stop, breakdown).
Kom process	KomLogging	Communication failures.
Operator	OperatorLogging	All operator's interactions into the system (e.g. changes of system objects' values via control windows in the <a href="#">D2000 HI</a> process).
Event	EventMsgLogging	Logs are written by performing LOG commands.
Logon /Logoff	LogonLogoffLogging	Operator's logon/logoff from/to the D2000 system processes.
Data export	DataExportLogging	Export from <a href="#">Browser</a>
Change value	ChangeValueLogging	Spontaneous changes of values.
PostMortem Data	PostMortemDataLogging	Special communication data.

To set parameters to write events of a given category into the log database:

1. Click the required category of events.
2. Using **Log**, **History depth**, **Use device** and **Device** placed below the table, set parameters for the given category of events.
3. Click the **Save** button to confirm the log database configuration.