

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 of particular event category 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](#).
Note: The deletion time of the logged event is determined at the time of its creation based on the configuration of the corresponding [Data purpose](#) object. Change of [Data purpose](#) object configuration does not affect existing logged events (every log contains the deletion time).
- **Use device** - [Yes/No] - enables/disables event logging to the 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. Starting with the 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. In the example above, 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 D2000 System Configuration - topic Alarm states).
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 D2000 HI 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 Browser
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.