

# Alarm States (Values)

## Alarm states (values)

For the needs of documentation of alarms and relating activities of the D2000 system, the term "alarm status" has been established, although actually, it is the "value of the object of the [Alarm](#) type". Alarms can be in various states, i.e. objects of [Alarm](#) type may acquire various values. An overview of the states of system alarms is shown in the following table

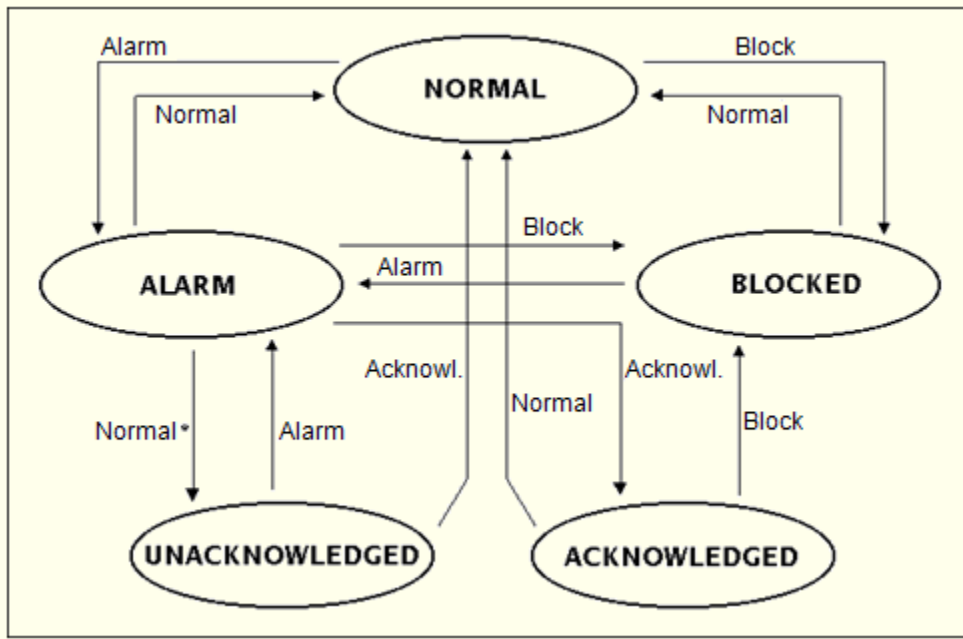
Alarm status	Cause
A_Norm	The condition to start the alarm has not occurred.
A_Alarm	Condition to start the alarm occurred.
A_Kvit	The alarm was acknowledged by an operator.
A_Block	The alarm was blocked by the operator, or the option <b>Blocked alarm</b> is checked in the alarm configuration.
A_UnBlock	The process <a href="#">D2000 Alarm</a> is not running and the operator unblocked the alarm in the status A_Block (Blocked).
A_NoKvit	For the acknowledgement-required alarm, the condition to end the alarm was met before its acknowledgement.

The system responds only to changes in these states. Conditions of changes in alarm states and activities corresponding to these changes must be defined for each object of Alarm type.

## Changes in alarm states

Alarm status change	Condition to change
<b>Normal -&gt; Alarm</b>	The condition to start the alarm must be met. The condition is represented by an object of the BOOLEAN type. Change into the state Alarm is subject to the time filter.
<b>Alarm -&gt; Acknowledged</b>	The operator acknowledged the alarm.
<b>Alarm -&gt; Normal</b>	The condition of ending an alarm must be met. If the condition is not defined, the condition of starting an alarm has to finish. If the alarm is defined as an acknowledgement-required alarm, its status may not change from the state Alarm to the state Normal
<b>Acknowledged -&gt; Normal</b>	The condition of ending an alarm must be met. If the condition is not defined, the condition of starting the alarm must finish.
<b>Normal, Alarm, Acknowledged -&gt; Blocked</b>	The operator blocked the alarm.
<b>Blocked -&gt; Normal, Alarm</b>	The operator unblocked the alarm. New alarm status (Normal or Alarm) depends on which state the alarm was raised in.
<b>Alarm -&gt; Unacknowledged</b>	The condition of ending an alarm is met - for acknowledgement-required alarm.
<b>Unacknowledged -&gt; Normal</b>	The operator acknowledged the acknowledgement-required alarm.
<b>Unacknowledged -&gt; Alarm</b>	The condition of starting an alarm is met again - for acknowledgement-required alarm.

The changes in alarm states are shown in the following figure.



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[Alarms](#)

[Alarms - configuration dialog box](#)