

User Window for Alarm Management

The user window for alarm management allows you to obtain information about alarms in the system - about their current status (active, acknowledged, blocked), historical course, and details. In the window, it is possible to acknowledge, block and unblock individual alarms.




This chapter describes the window with the new alarm management user interfaces functional from version D2000 12.2.

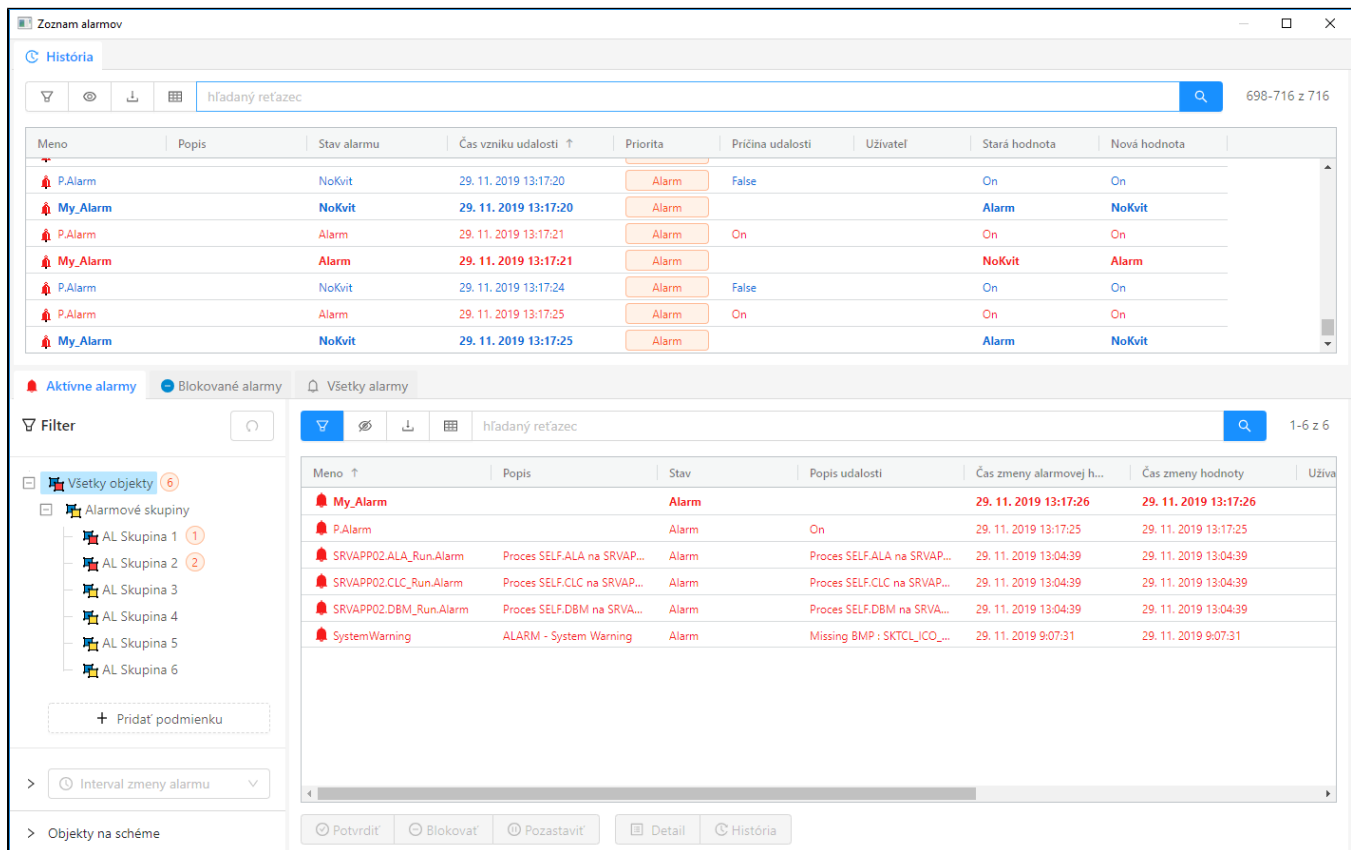
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Opening a Window and its Panels

Opening the alarm management window in the [D2000 HI](#) process can be done:

- by selecting **Alarms** from the **Open** menu
- by clicking the  button in the [Main toolbar](#) button in the
- by pressing the F2 button
- or by clicking on the light bulb symbol located in the lower-left corner of the [D2000 HI](#) process window

The user window for alarm management can be opened automatically when an alarm occurs if the [user](#) or [console settings](#) are configured correctly.



The screenshot displays the 'Zoznam alarmov' (Alarm List) window. The top section shows a list of alarms with columns: Meno, Popis, Stav alarmu, Čas vzniku udalosti, Priorita, Príčina udalosti, Užívateľ, Stará hodnota, and Nová hodnota. Below this, there are tabs for 'Aktívne alarmy', 'Blokované alarmy', and 'Všetky alarmy'. The 'Aktívne alarmy' tab is selected, showing a list of active alarms. On the left, there is a 'Filter' panel with a tree view of alarm groups (AL Skupina 1 to 6) and a search bar. At the bottom, there are buttons for 'Potvrdiť', 'Blokovať', 'Pozastaviť', 'Detail', and 'História'.

Meno	Popis	Stav alarmu	Čas vzniku udalosti	Priorita	Príčina udalosti	Užívateľ	Stará hodnota	Nová hodnota
P.Alarm		NoKvit	29. 11. 2019 13:17:20	Alarm	False		On	On
My_Alarm		NoKvit	29. 11. 2019 13:17:20	Alarm			Alarm	NoKvit
P.Alarm		Alarm	29. 11. 2019 13:17:21	Alarm	On		On	On
My_Alarm		Alarm	29. 11. 2019 13:17:21	Alarm			NoKvit	Alarm
P.Alarm		NoKvit	29. 11. 2019 13:17:24	Alarm	False		On	On
P.Alarm		Alarm	29. 11. 2019 13:17:25	Alarm	On		On	On
My_Alarm		NoKvit	29. 11. 2019 13:17:25	Alarm			Alarm	NoKvit

Meno	Popis	Stav	Popis udalosti	Čas zmeny alarmovej h...	Čas zmeny hodnoty	Užíva
My_Alarm		Alarm		29. 11. 2019 13:17:26	29. 11. 2019 13:17:26	
P.Alarm		Alarm	On	29. 11. 2019 13:17:25	29. 11. 2019 13:17:25	
SRVAPP02.ALARun.Alarm	Proces SELF.ALAR na SRVAP...	Alarm	Proces SELF.ALAR na SRVAP...	29. 11. 2019 13:04:39	29. 11. 2019 13:04:39	
SRVAPP02.CLCRun.Alarm	Proces SELF.CLC na SRVAP...	Alarm	Proces SELF.CLC na SRVAP...	29. 11. 2019 13:04:39	29. 11. 2019 13:04:39	
SRVAPP02.DBMRun.Alarm	Proces SELF.DBM na SRVA...	Alarm	Proces SELF.DBM na SRVA...	29. 11. 2019 13:04:39	29. 11. 2019 13:04:39	
SystemWarning	ALARM - System Warning	Alarm	Missing BMP : SKTCL_JCO_...	29. 11. 2019 9:07:31	29. 11. 2019 9:07:31	

This is the default setting of the alarm management window. The default screen settings may be preconfigured in different ways.

The alarm dialog consists of named panels: **Active Alarms**, **Blocked Alarms**, **All Alarms**, and **History** organized by tabs with their names. We can display the hidden panel by clicking on the tab with its name. Panels can be freely moved around the screen by holding down the mouse button after clicking on its tab. In this way, the alarm screen can be freely organized.

The individual panels display the following data:

- the **Active Alarms** panel displays the current list of active alarms or alarms that need to be acknowledged (they are in the Acknowledged state)
- the **Blocked Alarms** panel displays the current list of blocked, temporarily suspended and muted alarms
- the **All Alarms** panel displays all alarms that are configured in the system
- the **History** panel shows the current progress of alarm events. In principle, the content of this panel is identical to a specially configured log dialog with data read from the log database

The layout of the panels as well as their configuration is not automatically remembered after a change by the user and switching off the **D2000 HI**. The default configuration of the alarm window can be set by the user or administrator according to the procedure described in the last subchapter.



All panels contain a table, general functionalities of the table are described in a separate chapter [General control of the table in the new user interface](#).

All alarm panels share a lot of common functionality, whether it's a hideable filter on the left side of the panel, an alarm/event detail on the right, or control of the table and its context panel located above the table. For this reason, the following subchapters are organized to describe the common functionality in one place and thus not repeat the same description unnecessarily several times.

"Active alarms" panel

The panel of active alarms displays all currently active alarms in the system (light red text), in a special case also alarms that are already inactive but require confirmation (so-called [mandatory acknowledged alarms](#)). In the table, such alarms are displayed in blue text. An acknowledged alarm that is still active is displayed in dark red. Active alarms can be acknowledged either by double-clicking on a row in the table or by clicking the "Confirm" button at the bottom of the active alarms panel. This button is active if at least one selected alarm can be acknowledged. Next to the acknowledge button, there are also the "Block", "Pause" and "Mute" buttons. "Block" and "Pause" change the status of the selected alarms to blocked. These alarms will be moved from the active alarms panel to the blocked alarms panel. Button "Mute" will also move the alarm to the blocked alarms panel, but only for the currently logged in user. This action will not affect other users and they will see the alarm in its original state.

Meno ↑	Popis	Stav	Popis udalosti	Čas zmeny alarmovej
My_Alarm		NoKvit		2. 12. 2019 8:58:05
✓ P.Alarm		Kvit	On	29. 11. 2019 17:08:33
SRVAPP02.ALA_Run.Alarm	Proces SELF.ALA na SRVAP...	Alarm	Proces SELF.ALA na SRVAP...	29. 11. 2019 13:04:39
SRVAPP02.CLC_Run.Alarm	Proces SELF.CLC na SRVAP...	Alarm	Proces SELF.CLC na SRVAP...	29. 11. 2019 13:04:39
SRVAPP02.DBM_Run.Alarm	Proces SELF.DBM na SRVA...	Alarm	Proces SELF.DBM na SRVA...	29. 11. 2019 13:04:39
SystemWarning	ALARM - System Warning	Alarm	Missing BMP : SKTCL_ICO...	29. 11. 2019 9:07:31

In the active alarms panel, the first alarm in the table is inactive but still requires confirmation, the second is acknowledged but still active, and the remaining alarms are actively unacknowledged.

Pozastaviť 2 alarmy?

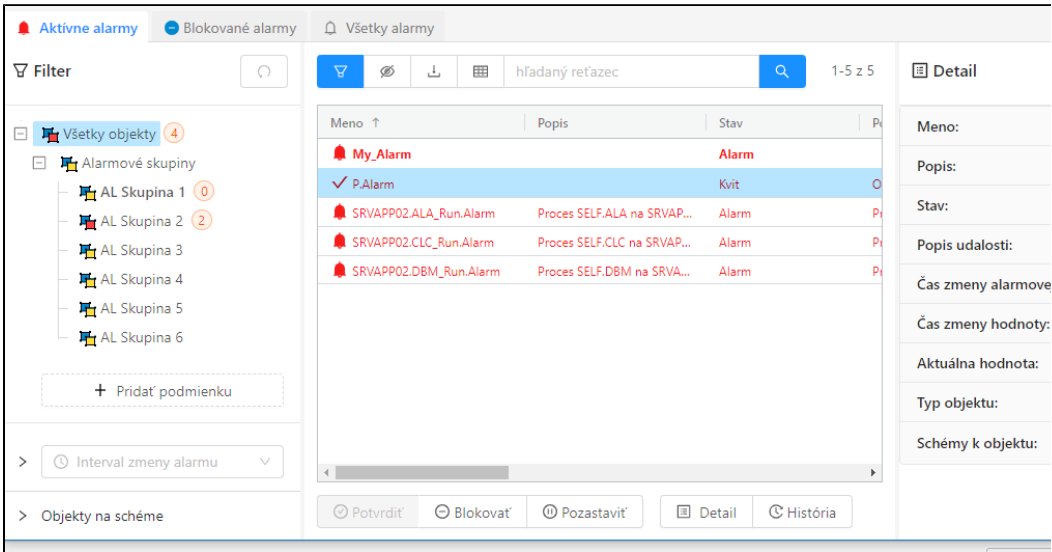
Pozastaviť do: 18.12.2019 08:47:22

10 min 20 min 30 min 40 min


Nie Áno

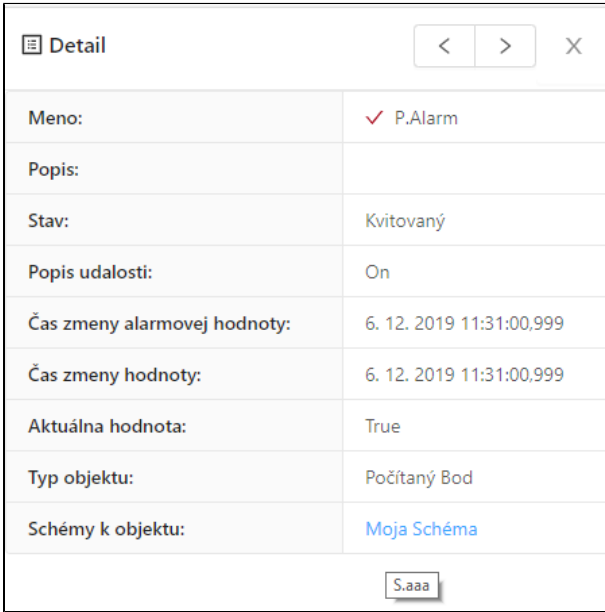
The dialog is triggered by the "Pause" button to pause selected alarms until a certain time. Below the time selector are buttons for quickly setting the lock time to 10, 20, 30, and 40 minutes.

In addition to the status and alarm buttons, the "Detail" and "History" buttons are present at the bottom of all alarm panels. The "Detail" button opens in the right part detail of the selected alarm with the possibility to display all schemes on which the object belonging to the alarm is used. The "History" button displays a separate monitoring dialog with a preset filter for the object selected in the table.



After pressing the "Detail" button, the detail of the selected alarm will be displayed on the right part of the screen.

After clicking the  button next to the Object schemas item, the list of schemas on which the given object (in this case P.Alarm) is located will be displayed.



The alarm detail for the P.Alarm object is located on the diagram with the description "My Scheme", after moving the cursor over the line, the name of the scheme will be displayed (in this case "S.aaa").

Via the line with the description or the name of the scheme (if the description is not filled in) it is possible to open the given scheme in the HI window by clicking.

Columns in Alarm Tables


The following columns can be displayed in the alarm list tables:



Name	The name of the Alarm object or object to which the process alarm applies.
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Description	A textual description of the <i>Alarm</i> object or object to which the process alarm associates.
State	Indication of the state in which there is an object of the Alarm type or the object to which the process alarm relates - the current state of the alarm object.
Event description	Description of the alarm event according to the definition assigned when configuring the object in the D2000 CNF process (display mask).
Alarm value change time	Time of value change of the <i>Alarm</i> object.
Value change time	Time of value change of the object to which the process alarm associates.
User	The name of the user who performed the last operation with the alarm.
Current value	The current value of the object.
Object type	Object type.
Technical units	Technical units of the object.
Object Id	Internal id of the object associated with the alarm (initially this column is hidden).
(description or name of the attribute logical group)	Each attribute logical group is displayed as a separate column.

Clicking on a column header will sort the items in the list in ascending/descending order according to the key specified by that column.

Alarm Panel Filter

On the left part of the alarm panels, there is a filter that can be hidden by a  button located above the table. The contents of the alarm table change automatically after each change of the filter by the user. The search button located above the table in this case only fulfils the function. After the

change, the  button for cancelling all filter conditions (or returning them to the default state) will be available. The filter at the top contains a tree of alarm logic groups. This tree also shows the number of alarms that were not acknowledged (active and inactive) after the name of the given alarm group with at least one unacknowledged alarm. After moving the cursor over this number, more detailed statistics will be displayed with unacknowledged but also acknowledged alarms of the given logical group of alarms. After clicking on an item in the tree, only alarms that belong to the given group are automatically filtered in the table. Multiple alarm groups can be selected at once via the Ctrl key. The alarm group tree can be expanded via the  icon at each level. If the alarms selected in the table belong to an alarm group, its name is dynamically highlighted in bold in the tree.

Filter

Všetky objekty (5)

Alarmové skupiny

- AL Skupina 1 (1)
- AL Skupina 2 (2)
 - 1 x Kritický Alarm
 - 1 x Nekritický Alarm
- AL Skupina 3
- AL Skupina 4
- AL Skupina 5
- AL Skupina 6

a zároveň

Atribútové logické skupiny

a zároveň

Logické skupiny

+ Pridať podmienku

Meno ↑	Popis
My_Alarm	
P.Alarm	
SRVAPP02.ALA_Run.Alarm	Proces SELF.ALA na SRVAP...
SRVAPP02.CLC_Run.Alarm	Proces SELF.CLC na SRVAP...
SRVAPP02.DBM_Run.Alarm	Proces SELF.DBM na SRVA...

Potvrdiť | Blokovat' | Pozastaviť

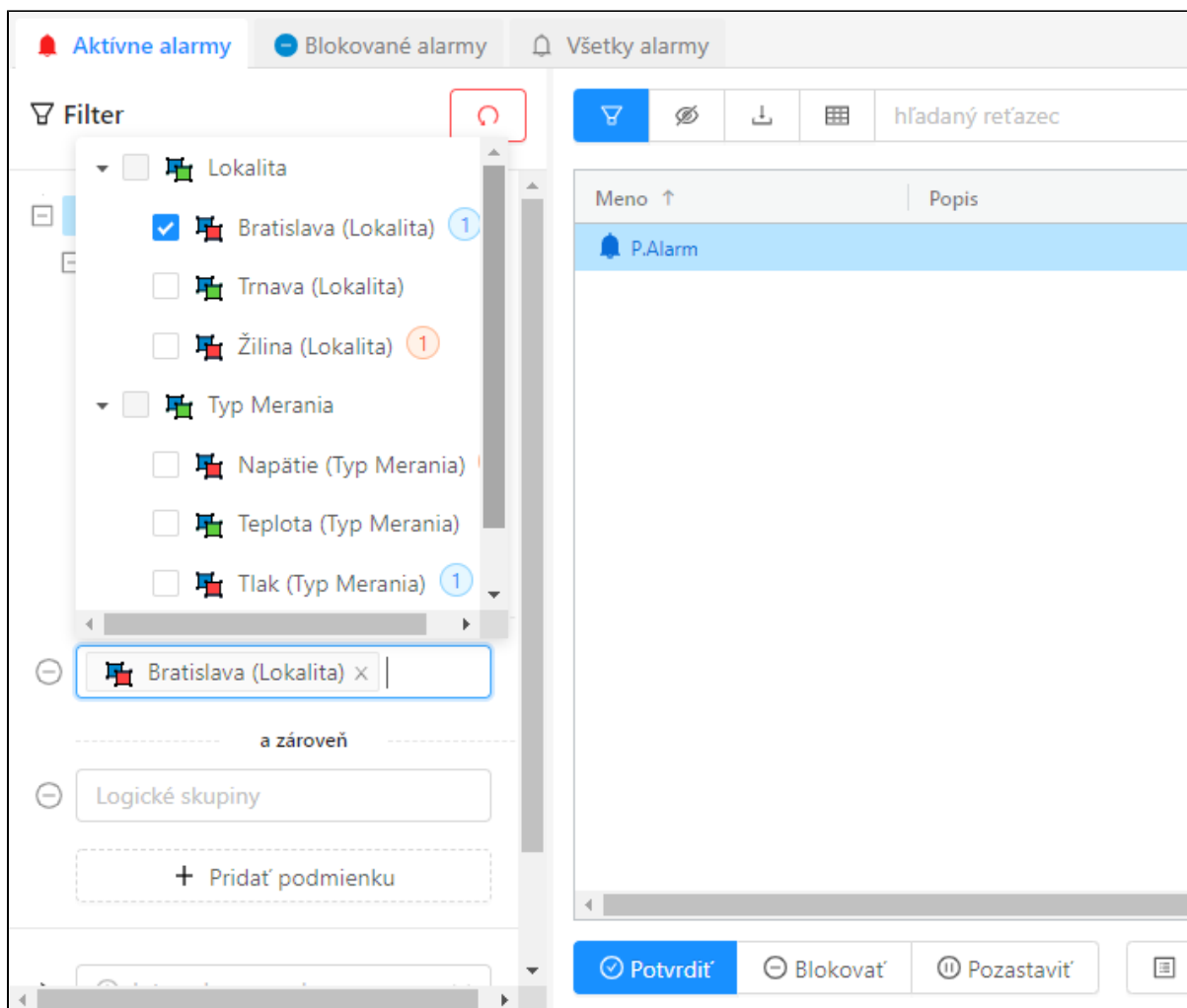
The popup with detailed numbers of active alarms after moving the cursor over the total number of alarms (e.g. ②).

Logical groups with at least one active alarm also have a changed icon

If the summary number is displayed with a blue background (e.g. ①) it means that there are only unacknowledged inactive alarms in the given logical group

The filter of alarm logical groups can be supplemented by filtering of attribute logical groups after pressing the . In this case, a multi-select selector with a list of attribute logical groups is added under the alarm group tree.



+ Pridať podmienku

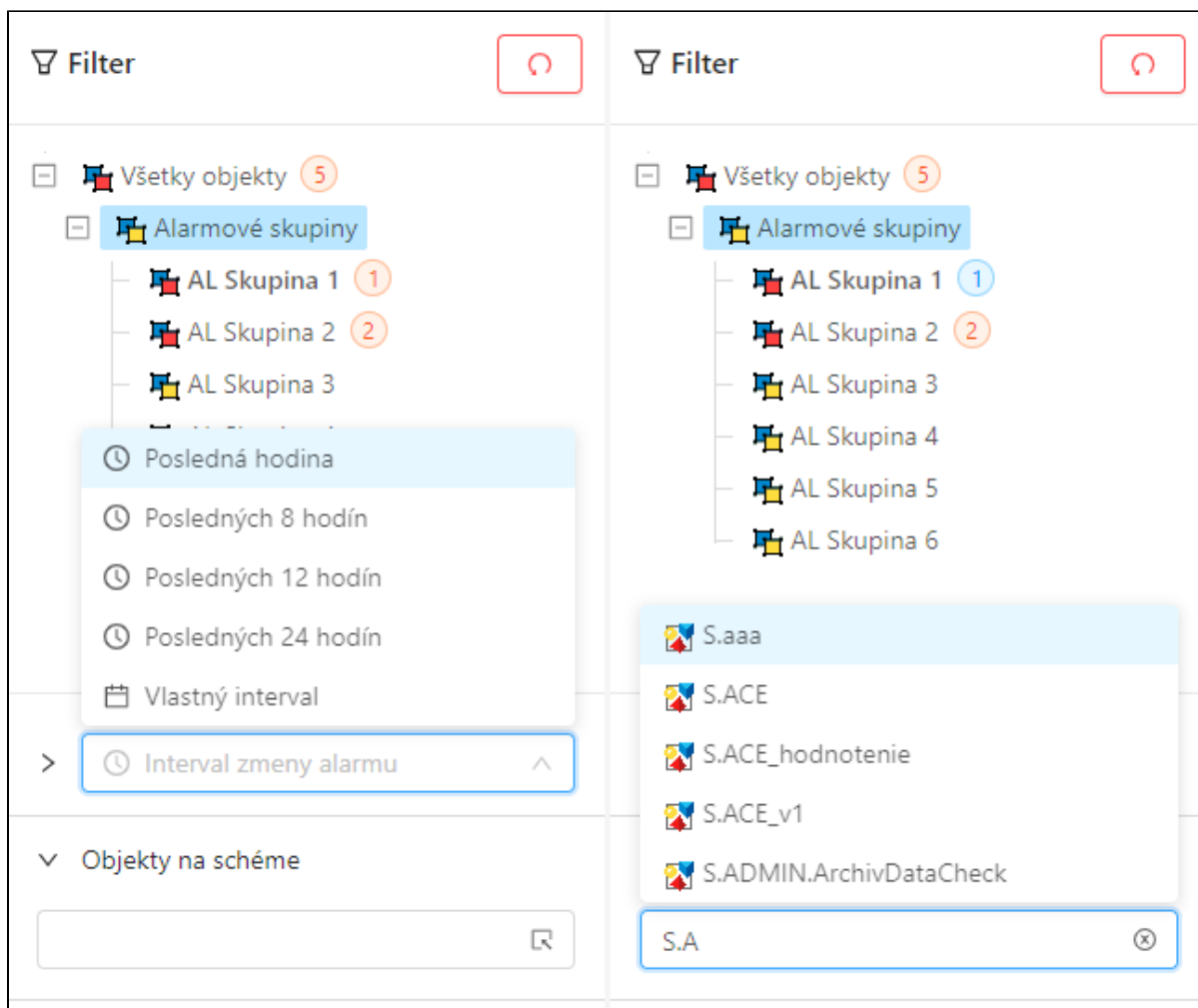


Under the tree of alarm logical groups, after pressing the "Add condition" button, a multi-selector selection of attribute logical groups (icons s) will be displayed.

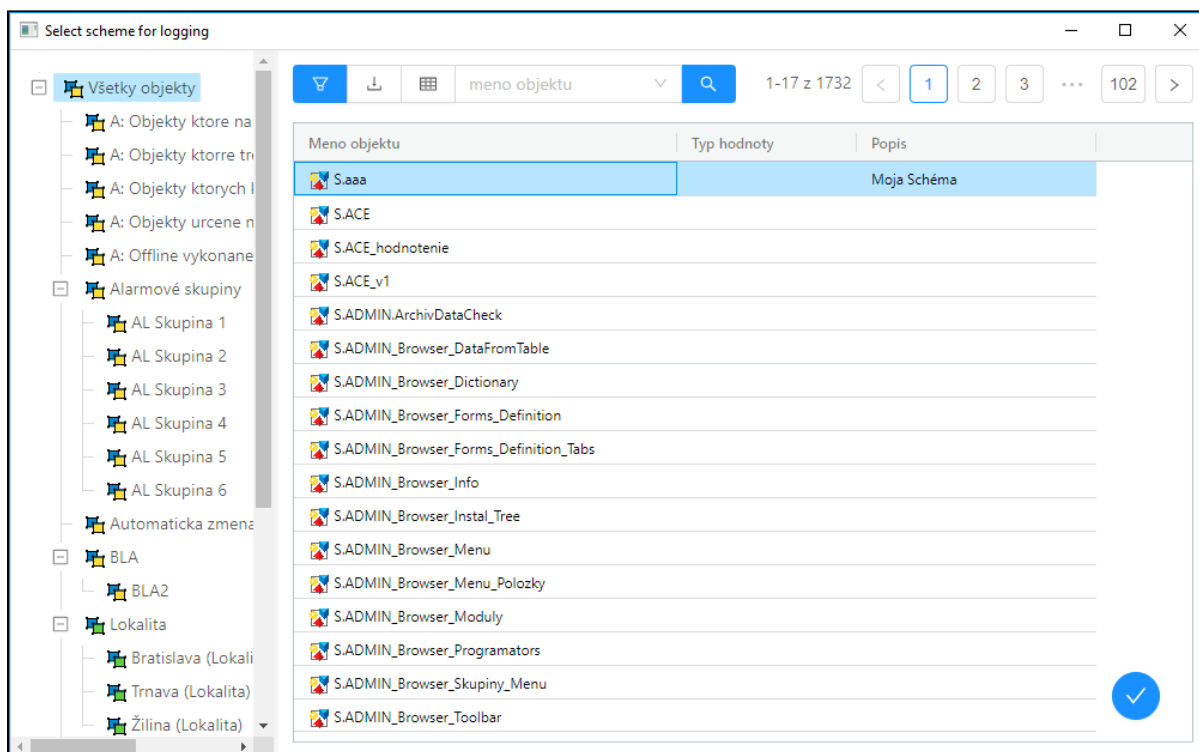
The item Bratislava in the attribute logical group Locality is currently selected in it.

By repeatedly pressing this button, it is possible to add any number of additional logical group filters for the searched objects. Individual multi-select

components can be removed in the opposite way by clicking on the corresponding icon - . Below the  Pridať podmienku button on are two more filter components. It is possible to filter out the first alarms that occurred in a given time interval (e.g. in the last 8 hours) through the first one. Through the second, only alarms pertaining to objects on a given schema can be filtered.



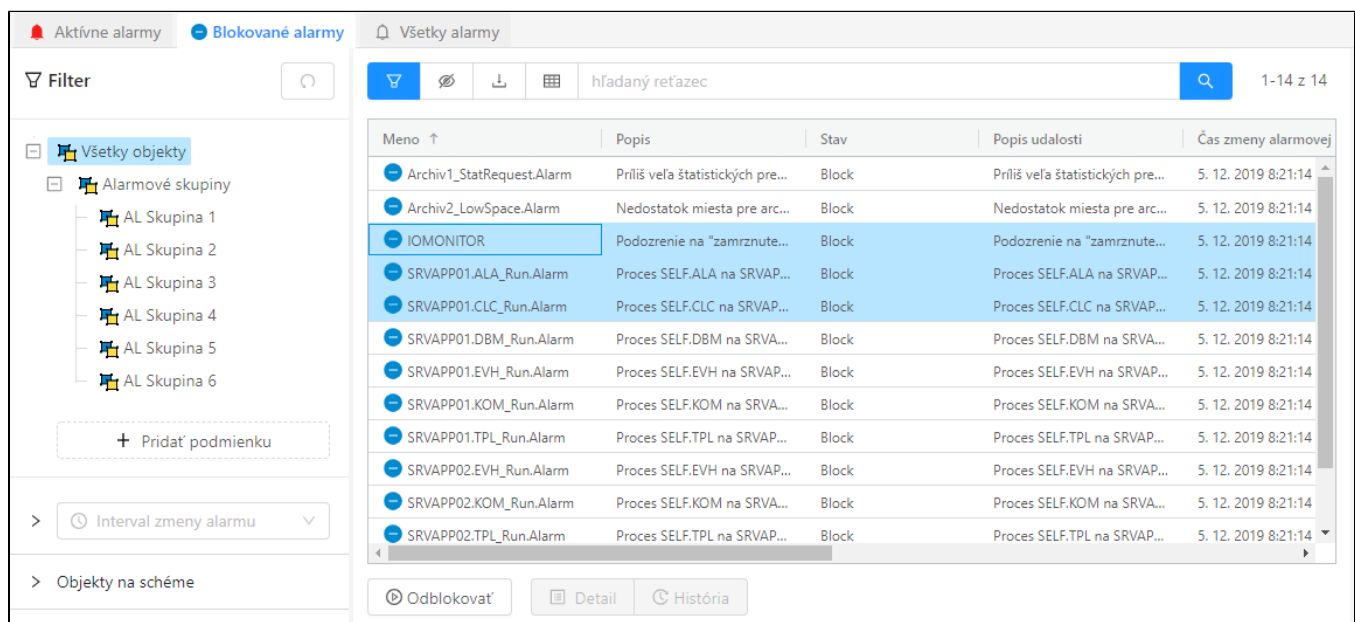
On the left, there is an interval selector for filtering alarms according to the time of their change, on the right, there is a selector of objects of the scheme type with self-completion of the object name (alternatively it is possible to call a separate dialog with schema selection by double-clicking, see the following figure).



The separate dialog with scheme selection to filter. The scheme is selected either by double-clicking on a row in the table or by confirming with the confirmation button in the lower right part of the dialog.

"Blocked alarms" Panel

The blocked alarms panel shows the currently blocked or suspended alarms in the system and muted alarms for current user. At first glance, it can be noticed that the buttons at the bottom of the panel have changed compared to active alarms, and it is possible to unblock or unmute selected alarms in bulk in this panel from operations on selected alarms. Alternatively, individual alarms can be quickly unblocked by double-clicking on a table row. In this case, the filter does not display the current numbers of active alarms after the names of the alarm logic groups - these numbers do not make sense in this view.



The panel of active alarms, and selected alarms can be unlocked via the button below the table.

"All alarms" Panel

The All Alarms panel displays all defined alarms in the system. This view is important e.g. during regular revisions and checking of defined alarms. Compared to the previous panels, this view contains several changes. Below the table, all buttons for operations with selected alarms known from the previous views are available. The table can contain thousands of records and therefore displays records page by page - paging can be seen in the upper right corner. The content of the filter, which displays all logical groups in the tree instead of exclusively alarm logical groups, has also changed, as in this view it is not strictly bound by minimizing logical group entries for quick identification of alarm situations.

Aktívne alarmy

Blokované alarmy

Všetky alarmy

Filter

Všetky objekty

A: Objekty ktore namaju pouziti

A: Objekty ktore treba prekonf

A: Objekty ktorych konfig. je po

A: Objekty urcene na zrusenie

A: Offline vykonane zmeny kont

Alarmové skupiny

Automaticka zmena konf.archiv

BLA

Lokalita

Ostatne

Typ Merania

XML

Zálohovanie

Pridať podmienku

Všetky alarmy

meno objektu

1-14 z 41

123

Meno	Popis	Stav	Popis udalosti	Čas zmeny alarmovej h...	Užívateľ
Archiv1_DBRequest.Alarm	Príliš veľa DB požiadaviek ...	Normal	Príliš veľa DB požiadaviek ...	5. 12. 2019 8:21:14	
Archiv1_LowSpace.Alarm	Nedostatok miesta pre arc...	Normal	Nedostatok miesta pre arc...	5. 12. 2019 8:21:14	
Archiv1_StatRequest.Alarm	Príliš veľa štatistických pre...	Block	Príliš veľa štatistických pre...	5. 12. 2019 8:21:14	
Archiv2_DBRequest.Alarm	Príliš veľa DB požiadaviek ...	Normal	Príliš veľa DB požiadaviek ...	5. 12. 2019 8:21:14	
Archiv2_LowSpace.Alarm	Nedostatok miesta pre arc...	Block	Nedostatok miesta pre arc...	5. 12. 2019 8:21:14	
Archiv2_StatRequest.Alarm	Príliš veľa štatistických pre...	Normal	Príliš veľa štatistických pre...	5. 12. 2019 10:25:08	
IOMONITOR	Podozrenie na "zamrznuťe...	Block	Podozrenie na "zamrznuťe...	5. 12. 2019 8:21:14	
M.ALBE400.1A.CB.Status	ALBERTIRSA, 400kV, 1A, C...	Normal		---	
My_Alarm		Alarm		5. 12. 2019 10:32:16	
P.ADMIN.ArchivDataCheck...	Chyba porovania archivov	Normal		---	
P.Alarm		NoKvit	On	5. 12. 2019 10:32:16	
P.AlarmImport	Chýbajúce archivné objekt...	Normal		---	
P.Boris		Normal		---	
P.C2_AlarmArchMsg	Chýbajúce archivné objekt...	Normal		---	

Potvrdiť

Blokovať

Pozastaviť

Odblokovať

Detail

História

The panel of all alarms, at the bottom of the screen it is possible to notice the buttons with all operations above the selected alarms.

"History" Panel

As the name suggests, this panel shows the historical progress of alarm states. In principle, this is actually the content of the log dialog, which is configured with a preset filter to display only alarm events. This filter can of course be changed. A detailed description of the entire functionality of the log dialog can be found in a separate part of the [User Window documentation for displaying data from the log database](#)

História

hľadaný reťazec

Meno	Popis	Stav alarmu	Čas vzniku udalosti	Priorita	Príčina udalosti	Užívateľ
My_Alarm		NoKvit	5. 12. 2019 16:00:55	Alarm		
My_Alarm		Alarm	5. 12. 2019 16:00:56	Alarm		
P.Alarm		NoKvit	5. 12. 2019 16:00:56	Alarm	False	
P.Alarm		Alarm	5. 12. 2019 16:00:57	Alarm	On	
My_Alarm		NoKvit	5. 12. 2019 16:01:00	Alarm		
P.Alarm		NoKvit	5. 12. 2019 16:01:00	Alarm	False	
My_Alarm		Alarm	5. 12. 2019 16:01:01	Alarm		
P.Alarm		Alarm	5. 12. 2019 16:01:01	Alarm	On	

The default state of the view of the historical course of alarms shows the last events that occurred at the end of the table (the table is automatically scrolled down if we do not click on it)

Setting and Saving the Alarm Window Configuration

The alarm window configuration is not automatically saved in the computer's registry as with other windows. Nonetheless, it is possible to explicitly set this configuration for the user, so that this setting is consistent for him on all computers. The current window settings [can be saved or exported in the advanced window settings](#). However, the save button of the window settings window is allowed only to administrators or users who have the configuration allowed to save alarms (checked checkbox "Change alarm window parameters" on the user's mask). The button to export the window configuration to a file is enabled for everyone. Such a file can then be imported into the user settings (item Alarm window configuration). This means that e.g. the administrator can set the same default alarm window configuration for multiple users.



Related pages:

[Alarm control from ESL script](#)

[Unblocking all alarms from ESL script](#)