

Manual

Event Browser



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1 GRIDVIS 7.42

This manual will give you an insight into how the Event Browser works.

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The Event Browser provides an overview and a graphic analysis of all recorded events and transients. Simultaneous events/transients can be grouped in the overview.

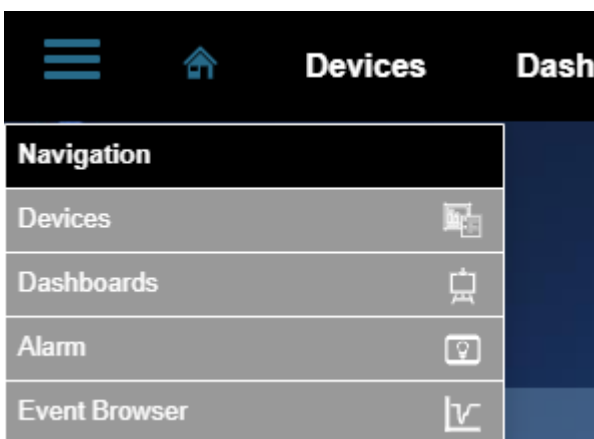
i This manual explains use of the Event Browser in the GridVis Desktop software. Handling in GridVis Energy is analogous and the function can be called via Menu > Event Browser.

Fig. 1: Screenshot from the Event Browser

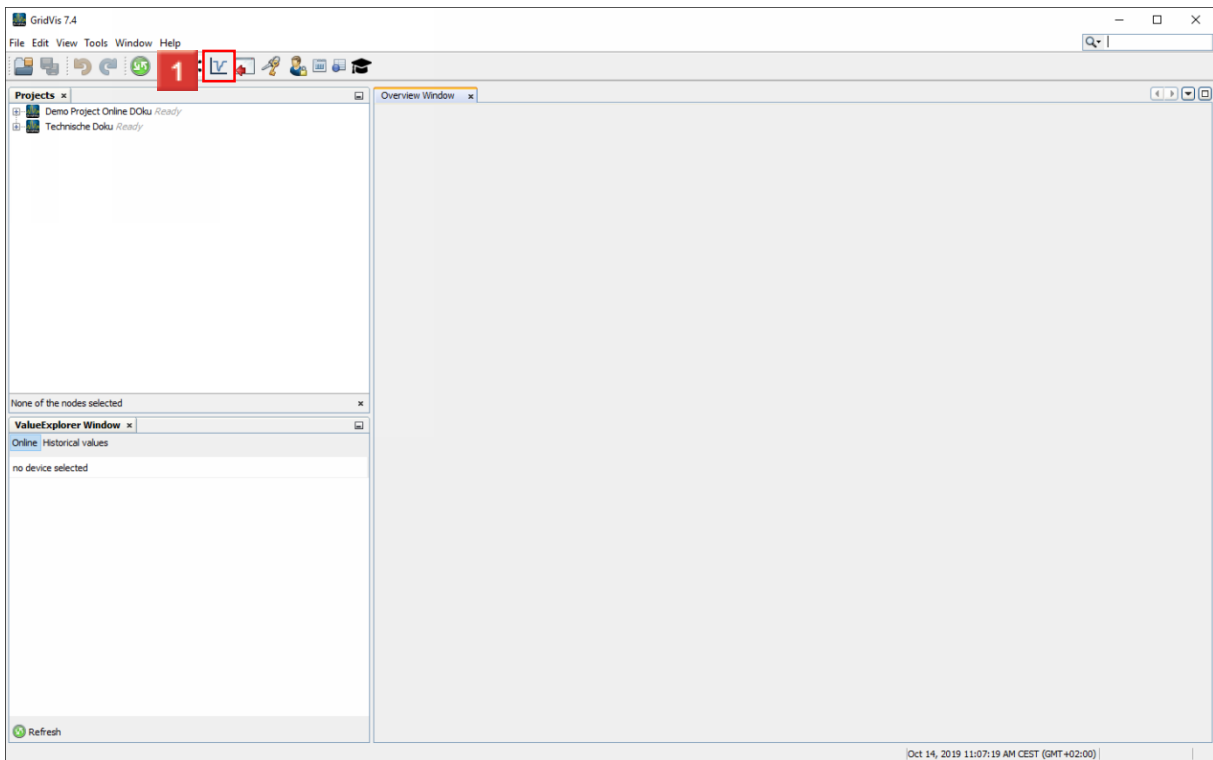
Fig. 2: Screenshot from the GridVis Energy menu

Event Browser

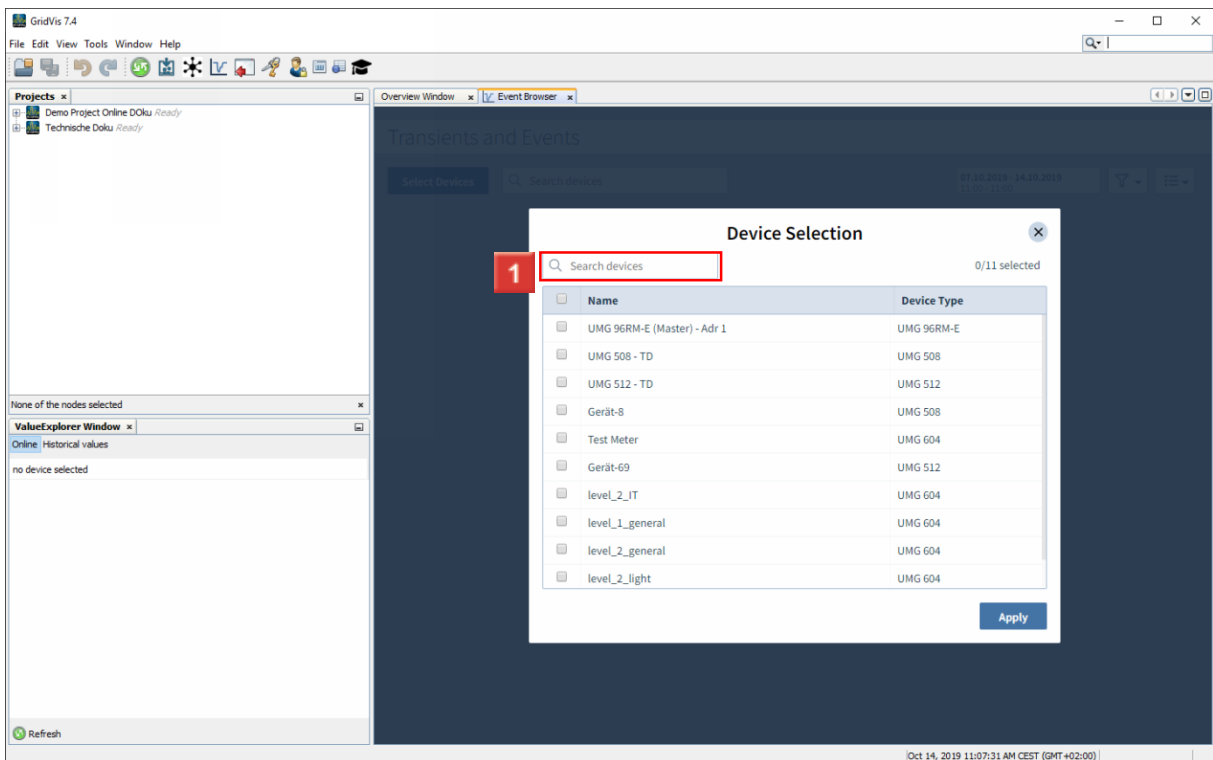
Statistical Evaluation	Device Name *	Type	Phase	Start	End	Duration	Value
1. 21.09.2017 12:33:35*247 - 12:33:35*248							
Events	level_2_general	Under voltage	L1 L2 L3 L4 L5 L6	21.09.2017 12:33:35*248	21.09.2017 12:33:35*348	100 ms	184.635 V
Transients	level_2_light	Under voltage	L1 L2 L3 L4 L5 L6	21.09.2017 12:33:35*247	21.09.2017 12:33:35*347	100 ms	184.611 V
Events Overview	level_3_general	Under voltage	L1 L2 L3 L4 L5 L6	21.09.2017 12:33:35*248	21.09.2017 12:33:35*347	99 ms	184.578 V
Average Duration	level_3_IT	Under voltage	L1 L2 L3 L4 L5 L6	21.09.2017 12:33:35*248	21.09.2017 12:33:35*348	100 ms	184.432 V
Highest Duration	level_3_light	Under voltage	L1 L2 L3 L4 L5 L6	21.09.2017 12:33:35*247	21.09.2017 12:33:35*347	100 ms	184.516 V
Under voltage	Main Power Supply	Under voltage	L1 L2 L3 L4 L5 L6	21.09.2017 12:33:35*248	21.09.2017 12:33:35*348	100 ms	183.597 V
2. 21.09.2017 12:33:34*698 - 12:33:34*808							
Envelope	level_2_general	Under voltage	L1 L2 L3 L4 L5 L6	21.09.2017 12:33:34*708	21.09.2017 12:33:34*808	100 ms	185.243 V
Affected Phases	level_2_light	Under voltage	L1 L2 L3 L4 L5 L6	21.09.2017 12:33:34*708	21.09.2017 12:33:34*807	99 ms	185.219 V
Phase L1	level_3_general	Under voltage	L1 L2 L3 L4 L5 L6	21.09.2017 12:33:34*708	21.09.2017 12:33:34*808	100 ms	184.916 V
Phase L2	level_3_IT	Under voltage	L1 L2 L3 L4 L5 L6	21.09.2017 12:33:34*708	21.09.2017 12:33:34*808	100 ms	184.996 V
Phase L3	level_3_light	Under voltage	L1 L2 L3 L4 L5 L6	21.09.2017 12:33:34*708	21.09.2017 12:33:34*808	100 ms	185.078 V
	Main Power Supply	Under voltage	L1 L2 L3 L4 L5 L6	21.09.2017 12:33:34*698	21.09.2017 12:33:34*808	110 ms	184.035 V



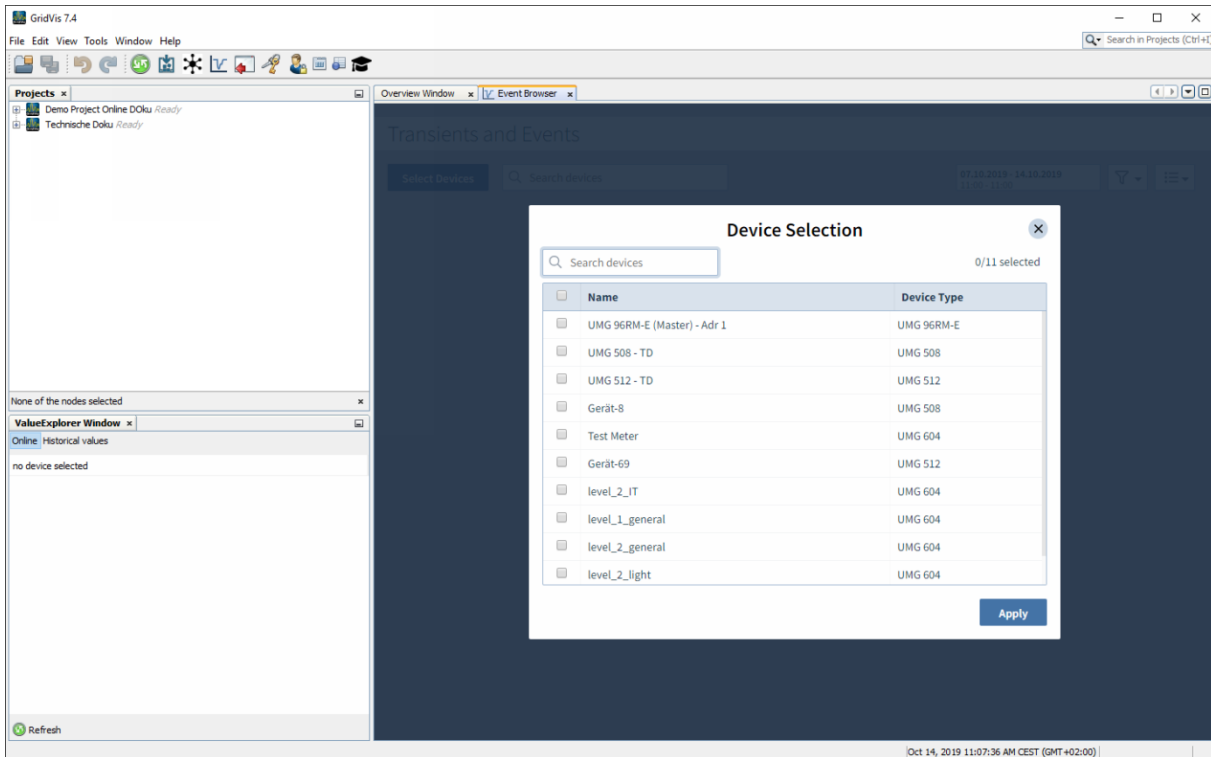
1 GridVis 7.4



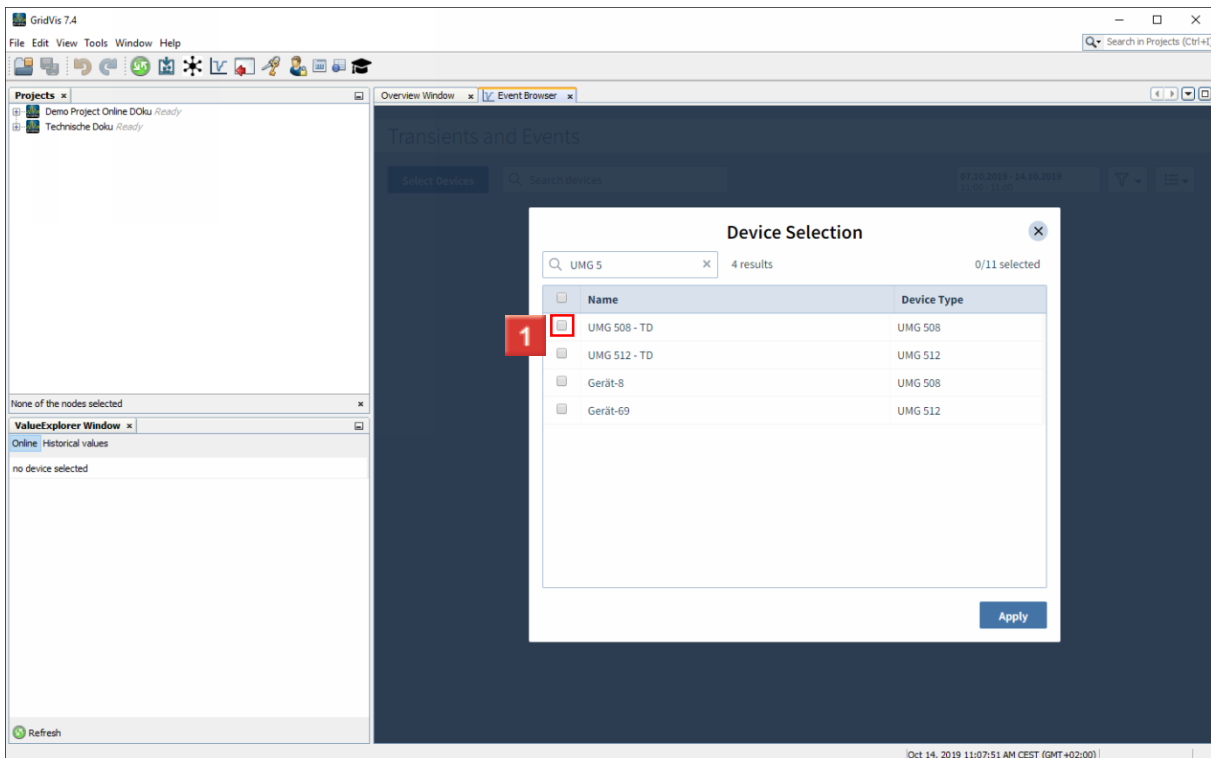
1 Click the **Event Browser** button.



1 Click the **Search devices** input field.

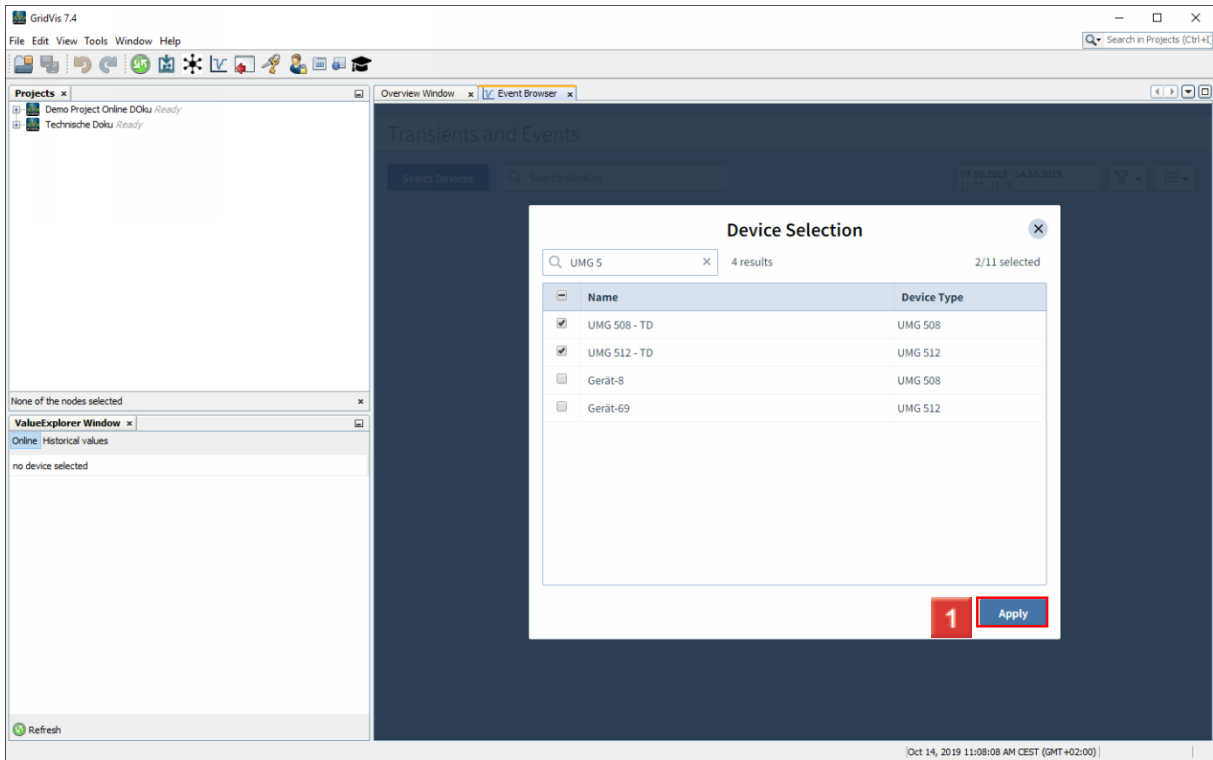


1 To filter the list by device names, enter the term in the search field.

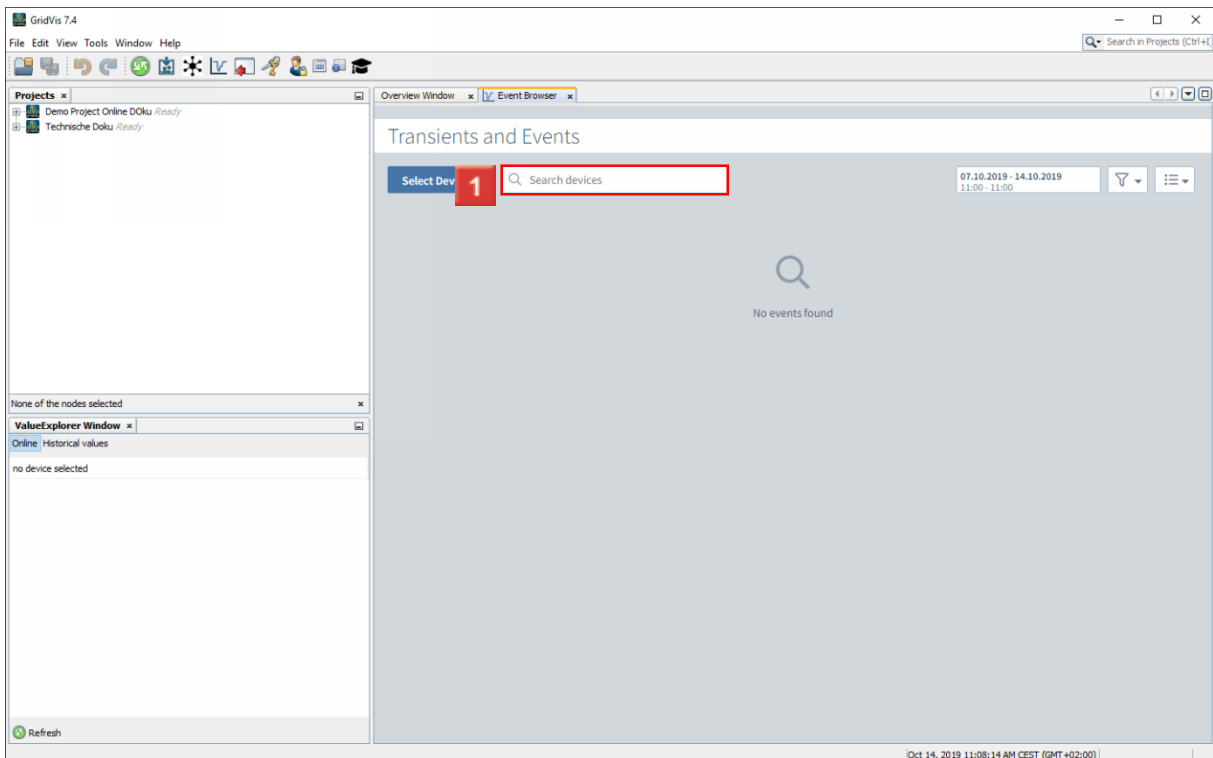


1 Use the checkboxes to select the desired devices.

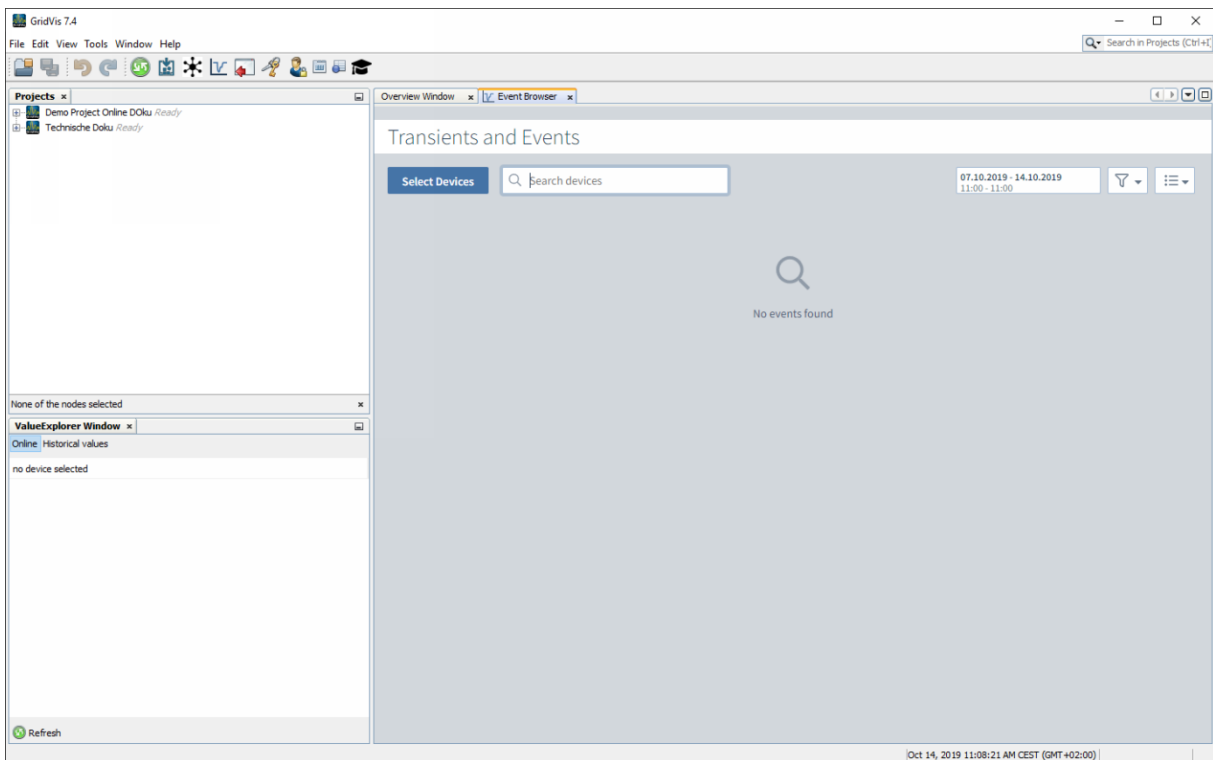
i The search term is checked against the name and the device type.



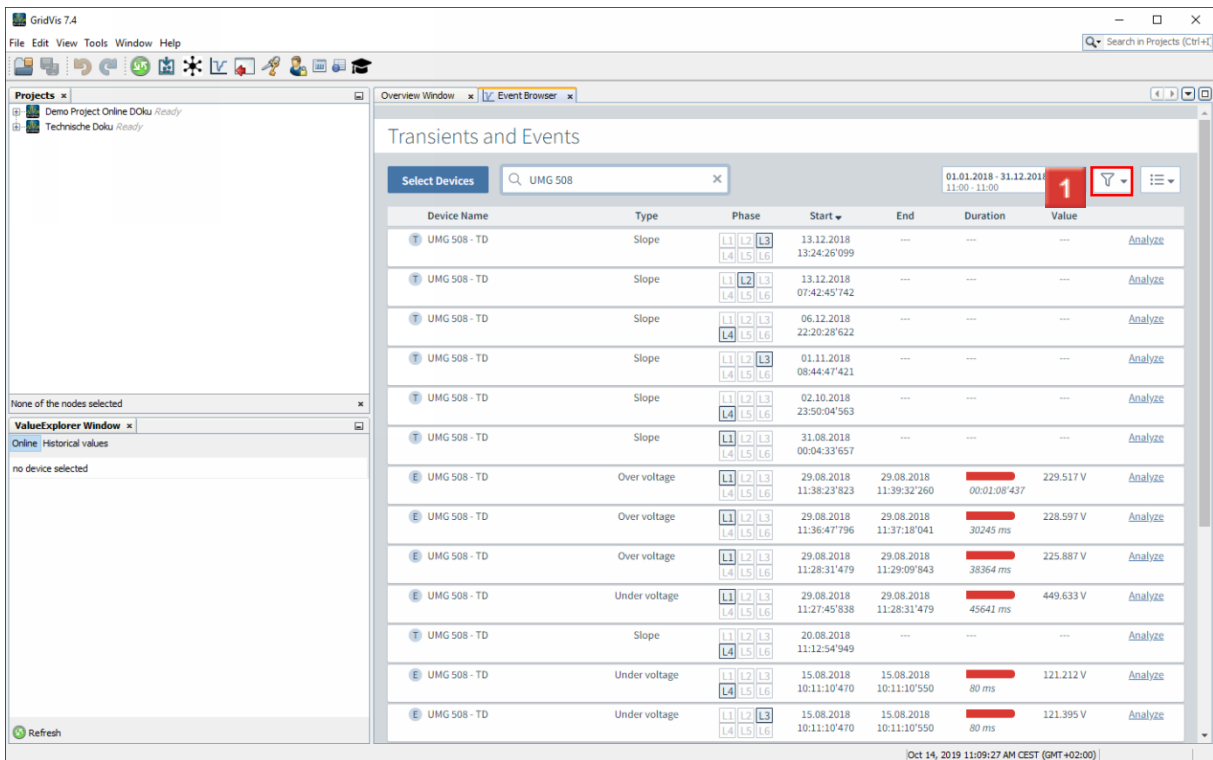
1 Click the **Apply** button.



1 To filter the list by device names, click in the **Search Devices** input field.



1 Enter the desired term in the search field.



1 To filter the list further, click on the **Filter** button.

The screenshot shows the GridVis 7.4 Event Browser interface. The main window displays a table of transients and events for device UMG 508. The table has columns for Device Name, Type, Phase, and Start. A 'FILTER' dialog box is open, showing options to filter by 'All', 'Events', or 'Transients'. The 'Events' radio button is selected, and a red '1' is placed over it. The 'Projects' dropdown menu is also visible, showing 'All Projects' selected.

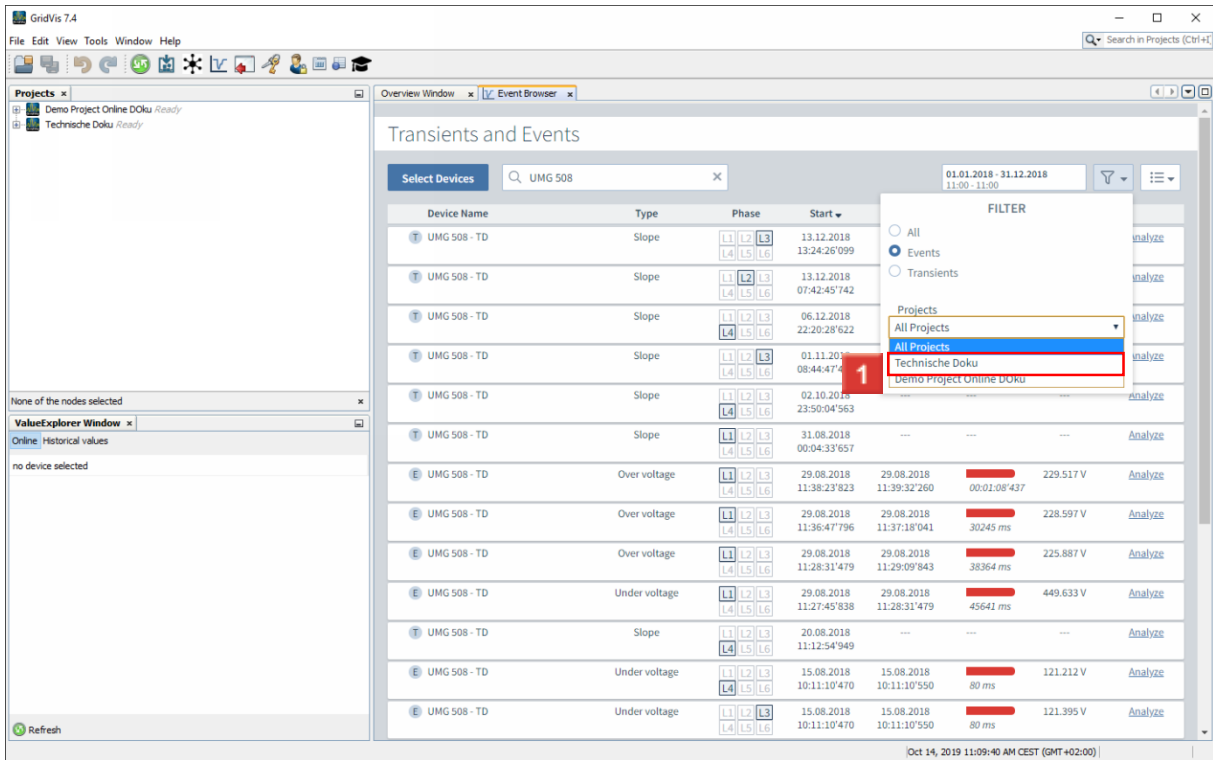
Device Name	Type	Phase	Start	End	Value	Duration	Analyze
UMG 508 - TD	Slope	L1, L2, L3, L4, L5, L6	13.12.2018 13:24:26	13.12.2018 07:42:45			Analyze
UMG 508 - TD	Slope	L1, L2, L3, L4, L5, L6	13.12.2018 07:42:45	06.12.2018 22:20:28			Analyze
UMG 508 - TD	Slope	L1, L2, L3, L4, L5, L6	01.11.2018 08:44:47	02.10.2018 23:50:04			Analyze
UMG 508 - TD	Slope	L1, L2, L3, L4, L5, L6	31.08.2018 00:04:33	29.08.2018 11:38:23	229.517 V	00:01:08	Analyze
UMG 508 - TD	Over voltage	L1, L2, L3, L4, L5, L6	29.08.2018 11:36:47	29.08.2018 11:37:18	228.597 V	30245 ms	Analyze
UMG 508 - TD	Over voltage	L1, L2, L3, L4, L5, L6	29.08.2018 11:28:31	29.08.2018 11:29:09	225.887 V	38364 ms	Analyze
UMG 508 - TD	Under voltage	L1, L2, L3, L4, L5, L6	29.08.2018 11:27:45	29.08.2018 11:28:31	449.633 V	45641 ms	Analyze
UMG 508 - TD	Slope	L1, L2, L3, L4, L5, L6	20.08.2018 11:12:54	15.08.2018 10:11:10	121.212 V	80 ms	Analyze
UMG 508 - TD	Under voltage	L1, L2, L3, L4, L5, L6	15.08.2018 10:11:10	15.08.2018 10:11:10	121.395 V	80 ms	Analyze

1 Use the selection fields to specify whether events, transients or both should be displayed.

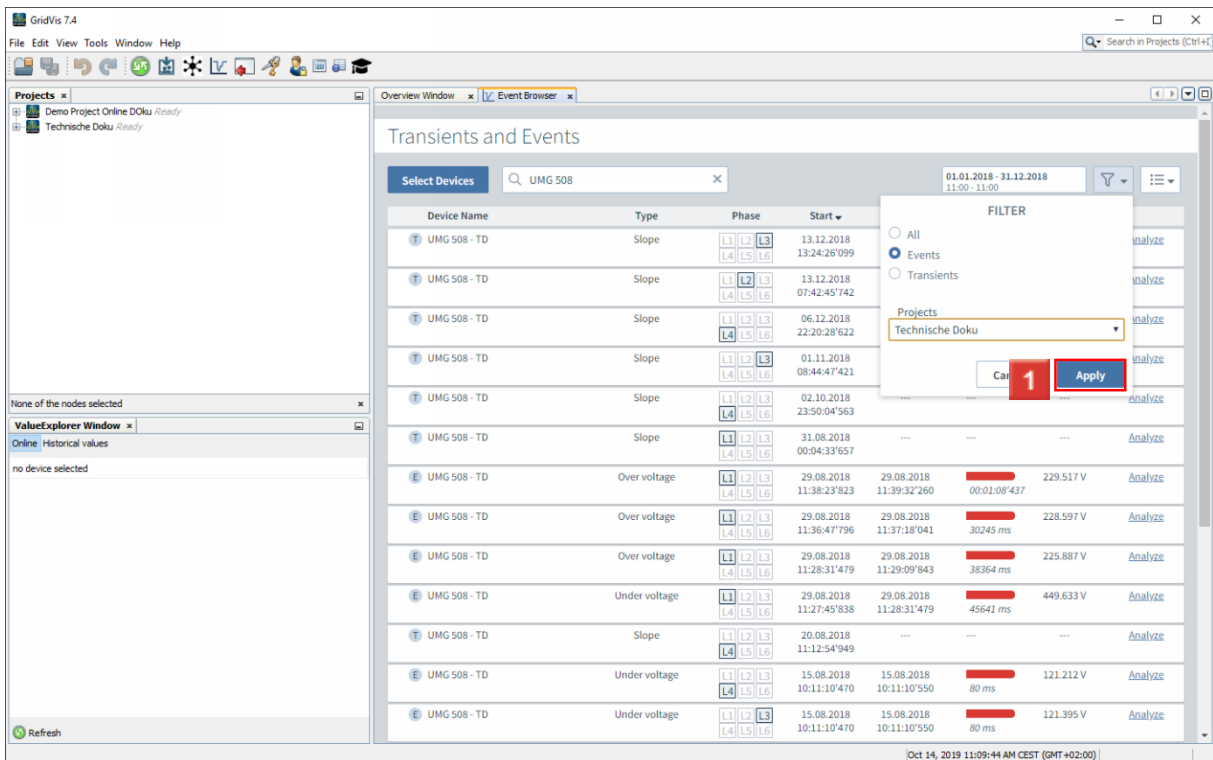
The screenshot shows the GridVis 7.4 Event Browser interface. The main window displays a table of transients and events for device UMG 508. The table has columns for Device Name, Type, Phase, and Start. A 'FILTER' dialog box is open, showing options to filter by 'All', 'Events', or 'Transients'. The 'All Projects' dropdown menu is highlighted, and a red '1' is placed over it.

Device Name	Type	Phase	Start	End	Value	Duration	Analyze
UMG 508 - TD	Slope	L1, L2, L3, L4, L5, L6	13.12.2018 13:24:26	13.12.2018 07:42:45			Analyze
UMG 508 - TD	Slope	L1, L2, L3, L4, L5, L6	13.12.2018 07:42:45	06.12.2018 22:20:28			Analyze
UMG 508 - TD	Slope	L1, L2, L3, L4, L5, L6	01.11.2018 08:44:47	02.10.2018 23:50:04			Analyze
UMG 508 - TD	Slope	L1, L2, L3, L4, L5, L6	31.08.2018 00:04:33	29.08.2018 11:38:23	229.517 V	00:01:08	Analyze
UMG 508 - TD	Over voltage	L1, L2, L3, L4, L5, L6	29.08.2018 11:36:47	29.08.2018 11:37:18	228.597 V	30245 ms	Analyze
UMG 508 - TD	Over voltage	L1, L2, L3, L4, L5, L6	29.08.2018 11:28:31	29.08.2018 11:29:09	225.887 V	38364 ms	Analyze
UMG 508 - TD	Under voltage	L1, L2, L3, L4, L5, L6	29.08.2018 11:27:45	29.08.2018 11:28:31	449.633 V	45641 ms	Analyze
UMG 508 - TD	Slope	L1, L2, L3, L4, L5, L6	20.08.2018 11:12:54	15.08.2018 10:11:10	121.212 V	80 ms	Analyze
UMG 508 - TD	Under voltage	L1, L2, L3, L4, L5, L6	15.08.2018 10:11:10	15.08.2018 10:11:10	121.395 V	80 ms	Analyze

1 Click the **All Projects** dropdown button.



1 Select a project from the list to display only events that were recorded in that project.



1 Click the **Apply** button.

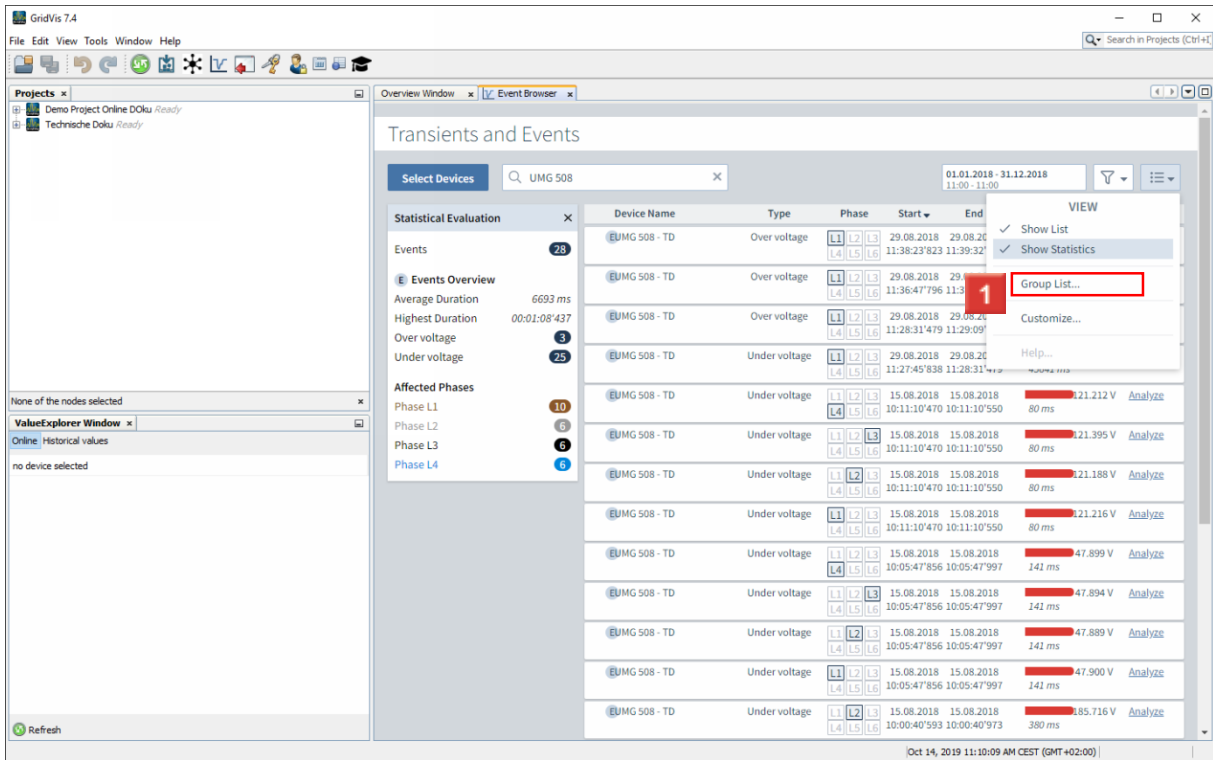
The screenshot shows the 'Transients and Events' window in GridVis 7.4. The table lists various events for device UMG 508, including overvoltage and undervoltage incidents. A red box with the number '1' highlights the view icon (three horizontal lines) in the top right corner of the table header area.

Device Name	Type	Phase	Start	End	Duration	Value	
UMG 508 - TD	Over voltage	L1, L2, L3	29.08.2018 11:38:23'823	29.08.2018 11:39:32'260	00:01:08'437	229.517 V	Analyze
UMG 508 - TD	Over voltage	L1, L2, L3	29.08.2018 11:36:47'796	29.08.2018 11:37:18'041	30245 ms	228.597 V	Analyze
UMG 508 - TD	Over voltage	L1, L2, L3	29.08.2018 11:28:31'479	29.08.2018 11:29:09'843	38364 ms	225.887 V	Analyze
UMG 508 - TD	Under voltage	L1, L2, L3	29.08.2018 11:27:45'838	29.08.2018 11:28:31'479	45641 ms	449.633 V	Analyze
UMG 508 - TD	Under voltage	L1, L2, L3	15.08.2018 10:11:10'470	15.08.2018 10:11:10'550	80 ms	121.212 V	Analyze
UMG 508 - TD	Under voltage	L1, L2, L3	15.08.2018 10:11:10'470	15.08.2018 10:11:10'550	80 ms	121.395 V	Analyze
UMG 508 - TD	Under voltage	L1, L2, L3	15.08.2018 10:11:10'470	15.08.2018 10:11:10'550	80 ms	121.188 V	Analyze
UMG 508 - TD	Under voltage	L1, L2, L3	15.08.2018 10:11:10'470	15.08.2018 10:11:10'550	80 ms	121.216 V	Analyze
UMG 508 - TD	Under voltage	L1, L2, L3	15.08.2018 10:05:47'856	15.08.2018 10:05:47'997	141 ms	47.899 V	Analyze
UMG 508 - TD	Under voltage	L1, L2, L3	15.08.2018 10:05:47'856	15.08.2018 10:05:47'997	141 ms	47.894 V	Analyze
UMG 508 - TD	Under voltage	L1, L2, L3	15.08.2018 10:05:47'856	15.08.2018 10:05:47'997	141 ms	47.889 V	Analyze
UMG 508 - TD	Under voltage	L1, L2, L3	15.08.2018 10:05:47'856	15.08.2018 10:05:47'997	141 ms	47.900 V	Analyze
UMG 508 - TD	Under voltage	L1, L2, L3	15.08.2018 10:00:40'593	15.08.2018 10:00:40'973	380 ms	185.716 V	Analyze

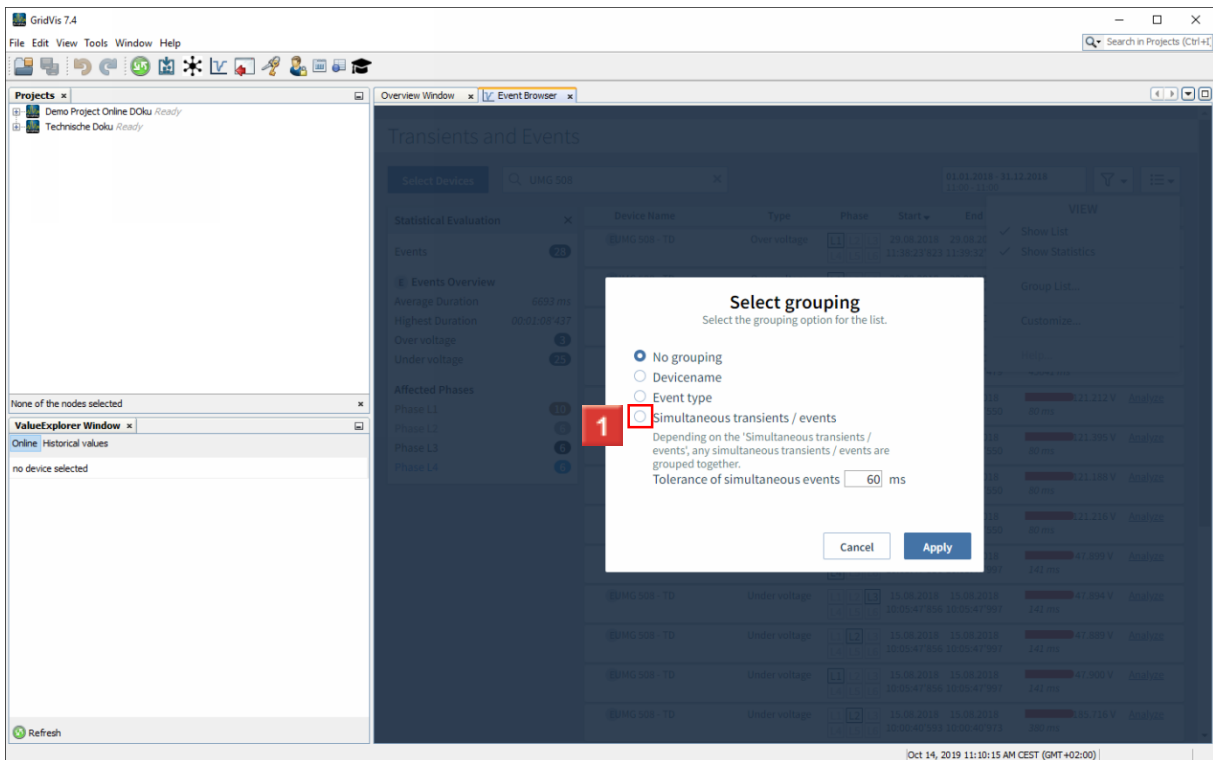
1 Click the **view** button.

The screenshot shows the same 'Transients and Events' window, but with the 'VIEW' context menu open over the first row of the table. The 'Show Statistics' option is highlighted with a red box. A red box with the number '1' points to the 'VIEW' menu icon.

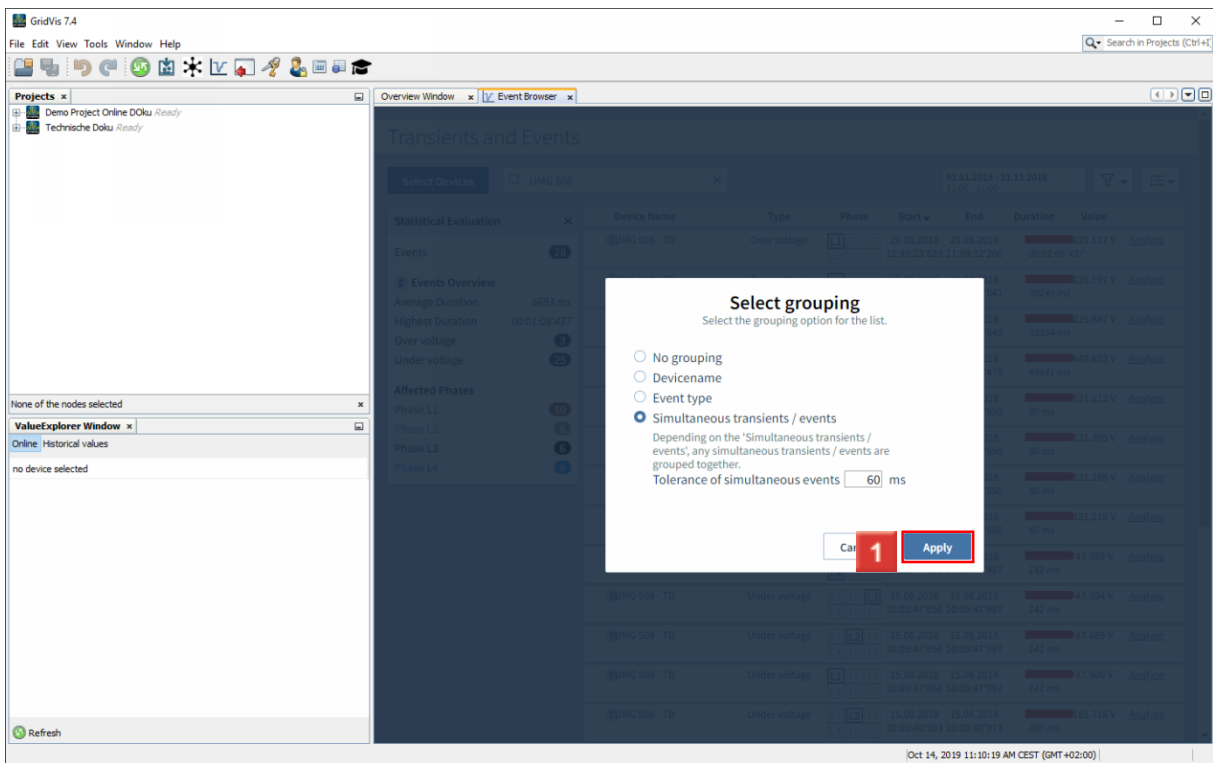
1 To display a statistical evaluation of all events from the list, click the menu item **Show Statistics**.



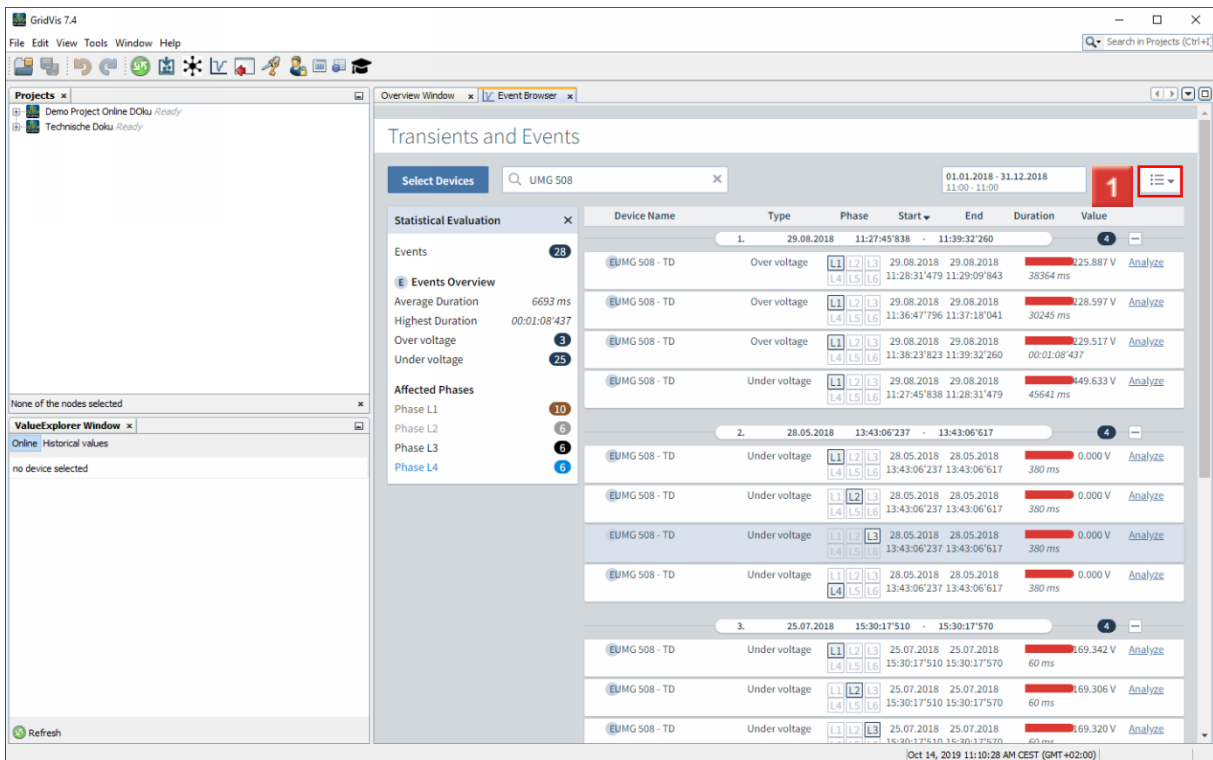
1 Click the **Group List** menu item.



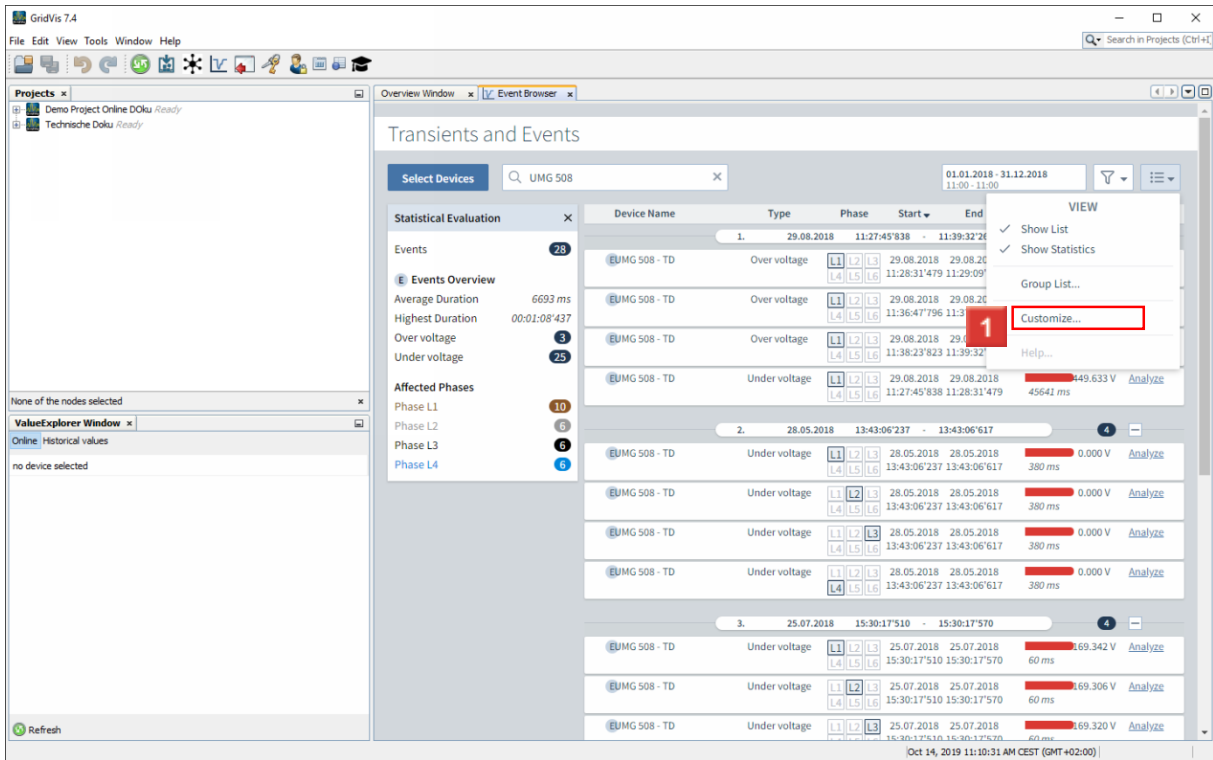
1 Click the **Simultaneous transients / events** radiobutton.



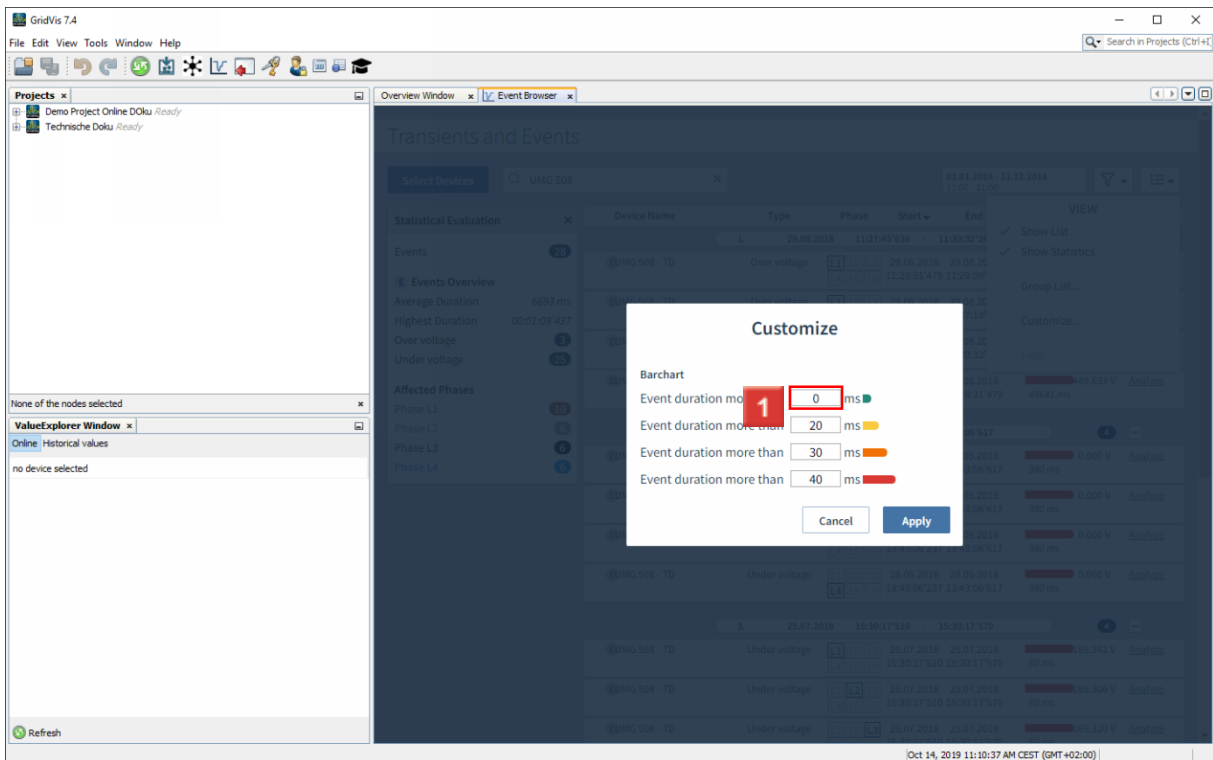
1 Click the **Apply** button.



1 Click the **view** button.



1 To edit the visualization of the duration, click the menu item **Customize**.



1 Click the input field.

- 2
- 3
- 4
- 5

6

7

8

Click the **Apply** button.

i The maximum length of the bar depends on the uppermost threshold configured (here, 500 ms). The length of the bar varies up to a maximum of 1.5 times the uppermost threshold. (In the example, up to 750 ms)

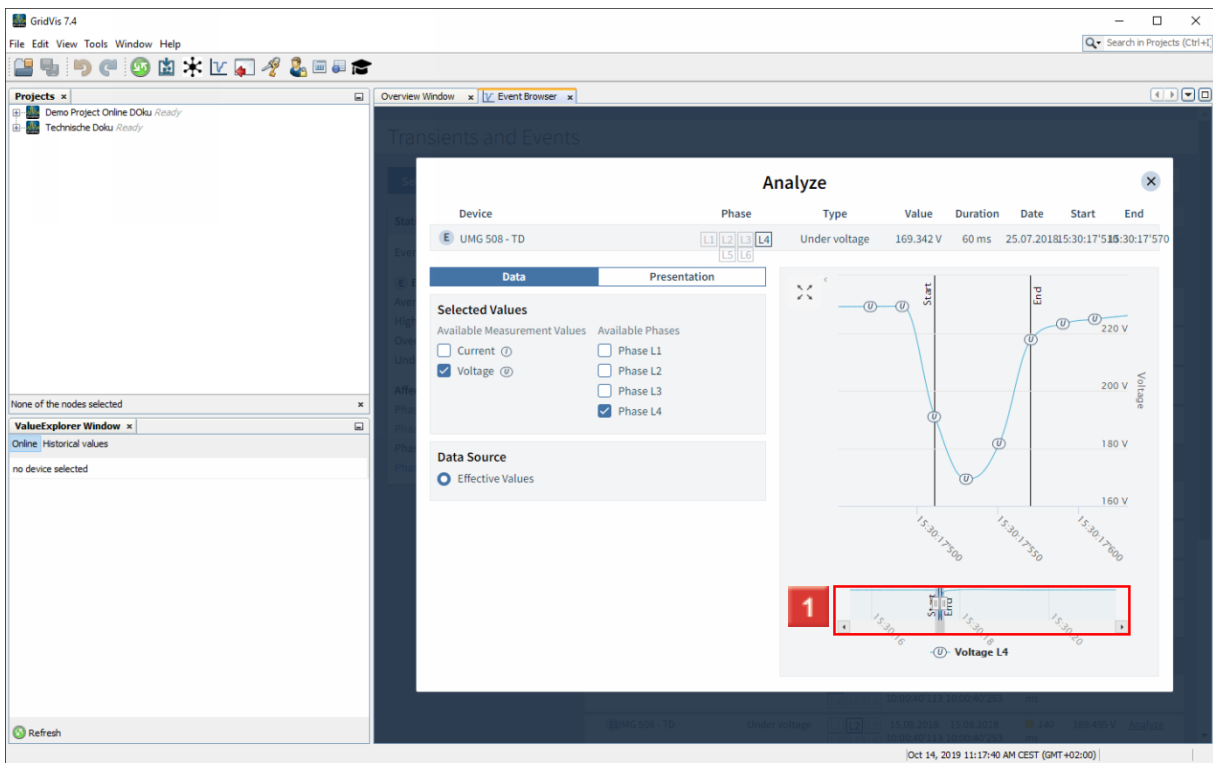
The screenshot shows the GridVis 7.4 Event Browser interface. The main window displays a list of transients and events for the device UMG 508. The table below summarizes the visible data:

Event ID	Date	Start Time	End Time	Duration	Value	Action
1.	29.08.2018	11:27:45'838	11:39:32'260	4		
2.	28.05.2018	13:43:06'237	13:43:06'617	4		
	28.05.2018	13:43:06'237	13:43:06'617	380 ms	0.000 V	Analyze
	28.05.2018	13:43:06'237	13:43:06'617	380 ms	0.000 V	Analyze
	28.05.2018	13:43:06'237	13:43:06'617	380 ms	0.000 V	Analyze
	28.05.2018	13:43:06'237	13:43:06'617	380 ms	0.000 V	Analyze
3.	25.07.2018	15:30:17'510	15:30:17'570	4		
	25.07.2018	15:30:17'510	15:30:17'570	60 ms	169.342 V	Analyze
	25.07.2018	15:30:17'510	15:30:17'570	60 ms	169.306 V	Analyze
	25.07.2018	15:30:17'510	15:30:17'570	60 ms	169.320 V	Analyze
	25.07.2018	15:30:17'510	15:30:17'570	60 ms	169.342 V	Analyze
4.	15.08.2018	10:00:40'113	10:11:10'550	1-8 (16)		
	15.08.2018	10:00:40'113	10:00:40'253	140 ms	189.541 V	Analyze
	15.08.2018	10:00:40'113	10:00:40'253	140 ms	189.495 V	Analyze

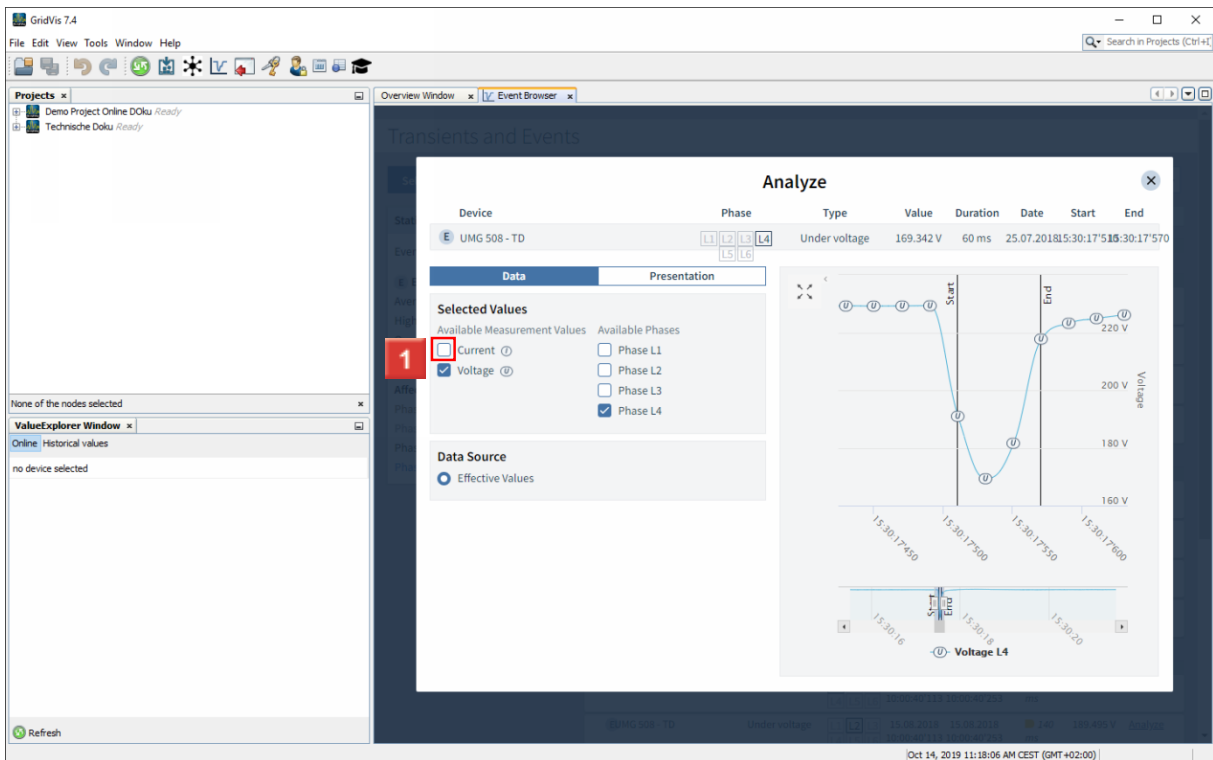
The 'Analyze' button for the event with a duration of 60 ms and a value of 169.342 V is highlighted with a red box and a red '1'.

1

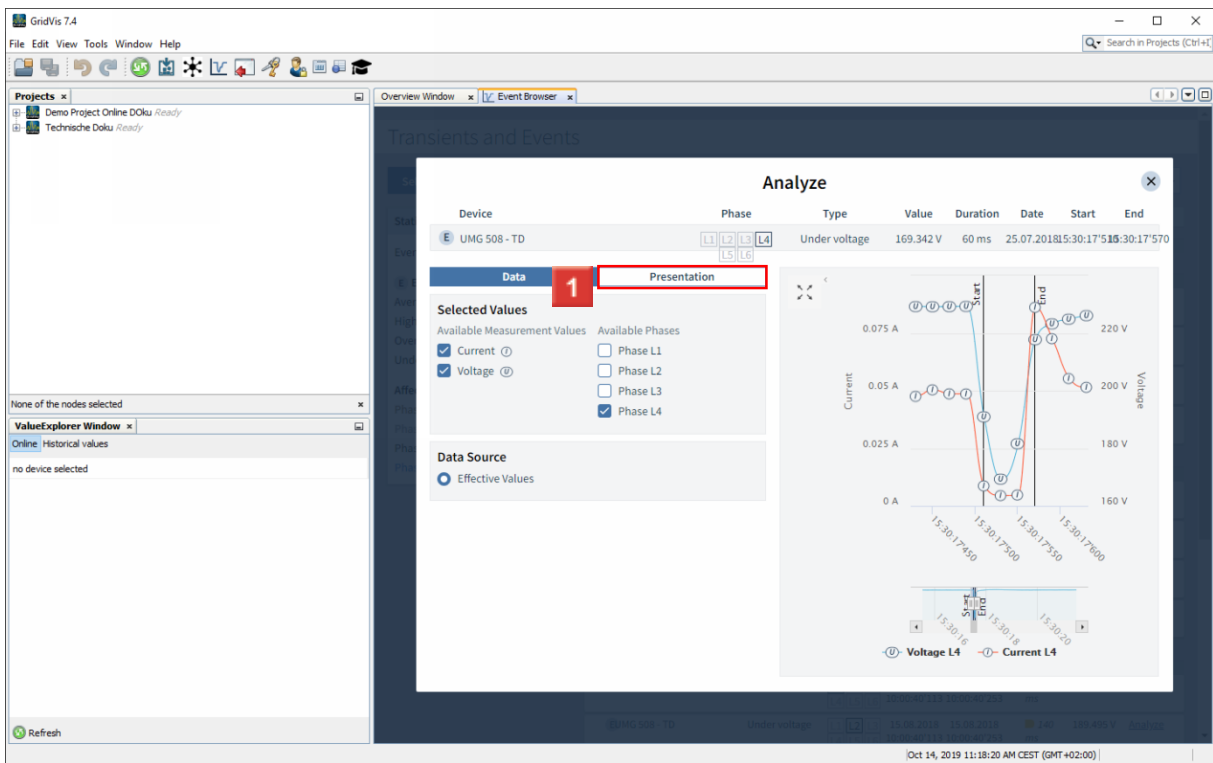
Click the **Analyze** hyperlink to open a more detailed view of the event.



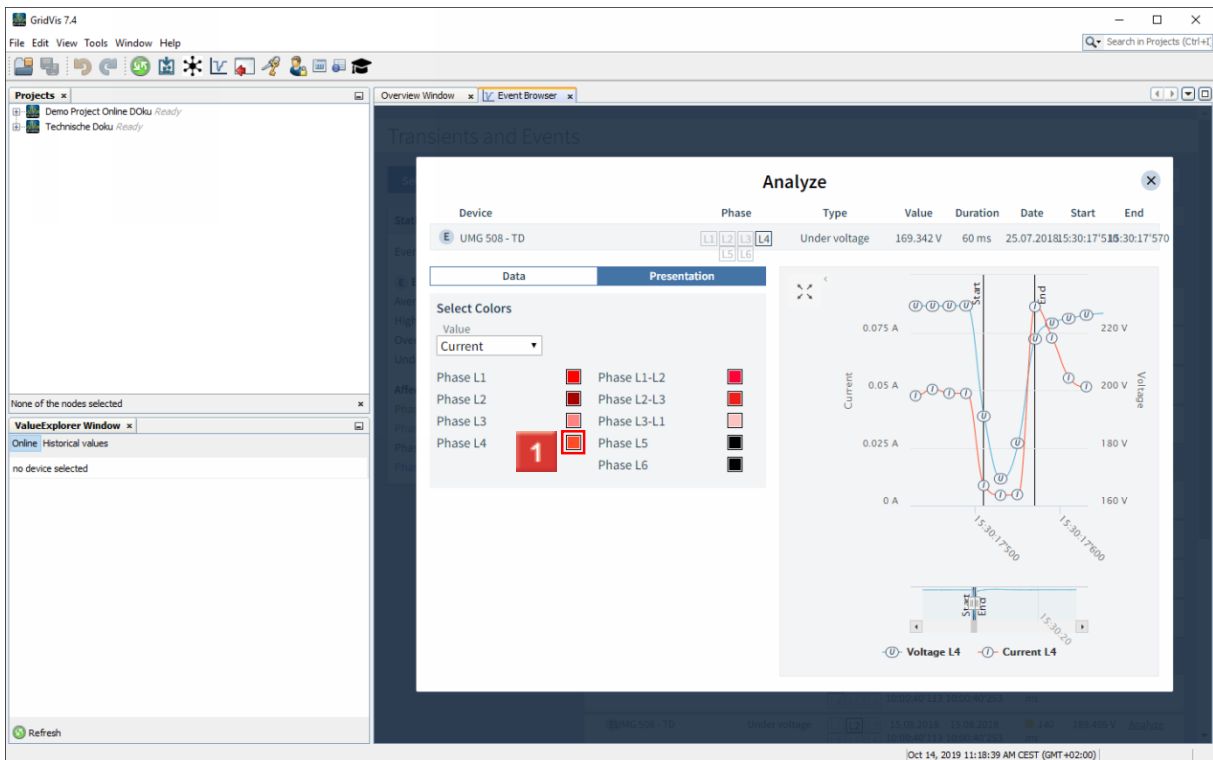
1 Use the slider to fine adjust the section of the graph that is displayed.



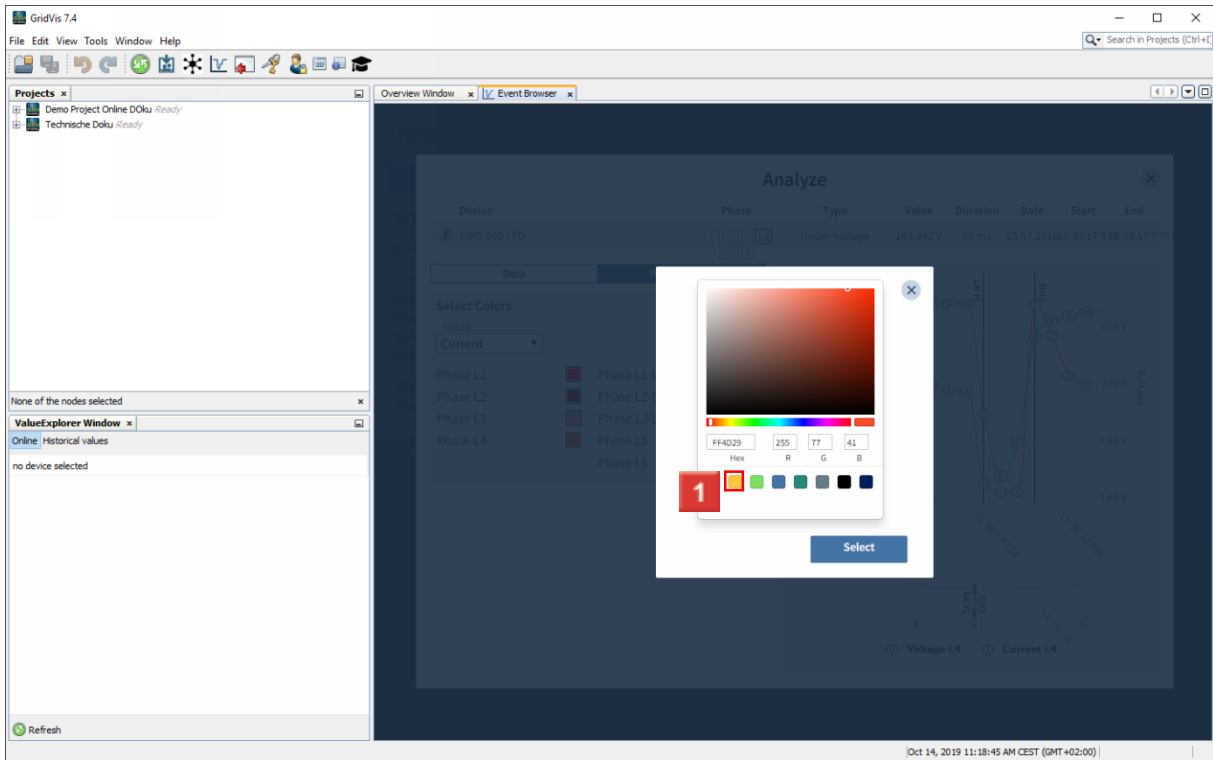
1 Click the **Current** radiobutton.



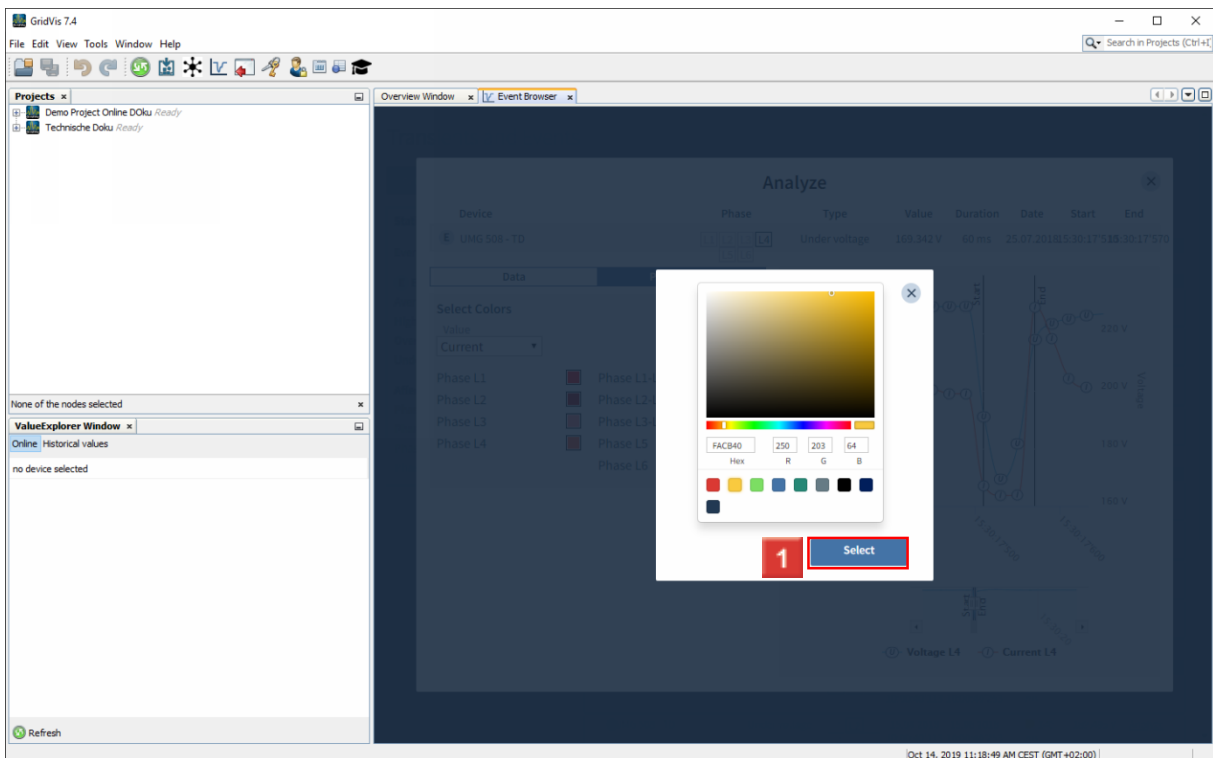
1 Click the **Presentation** tab.



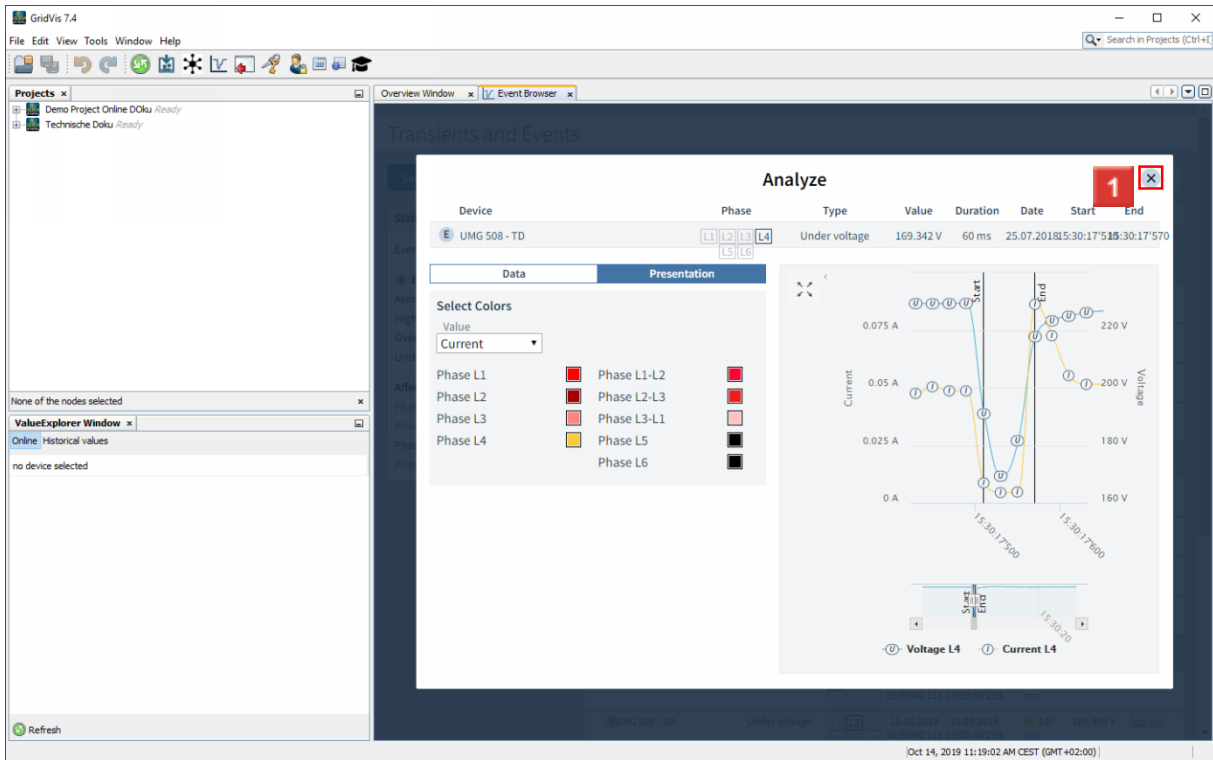
1 Click on the color field of one of the phases to modify its appearance in the graph.



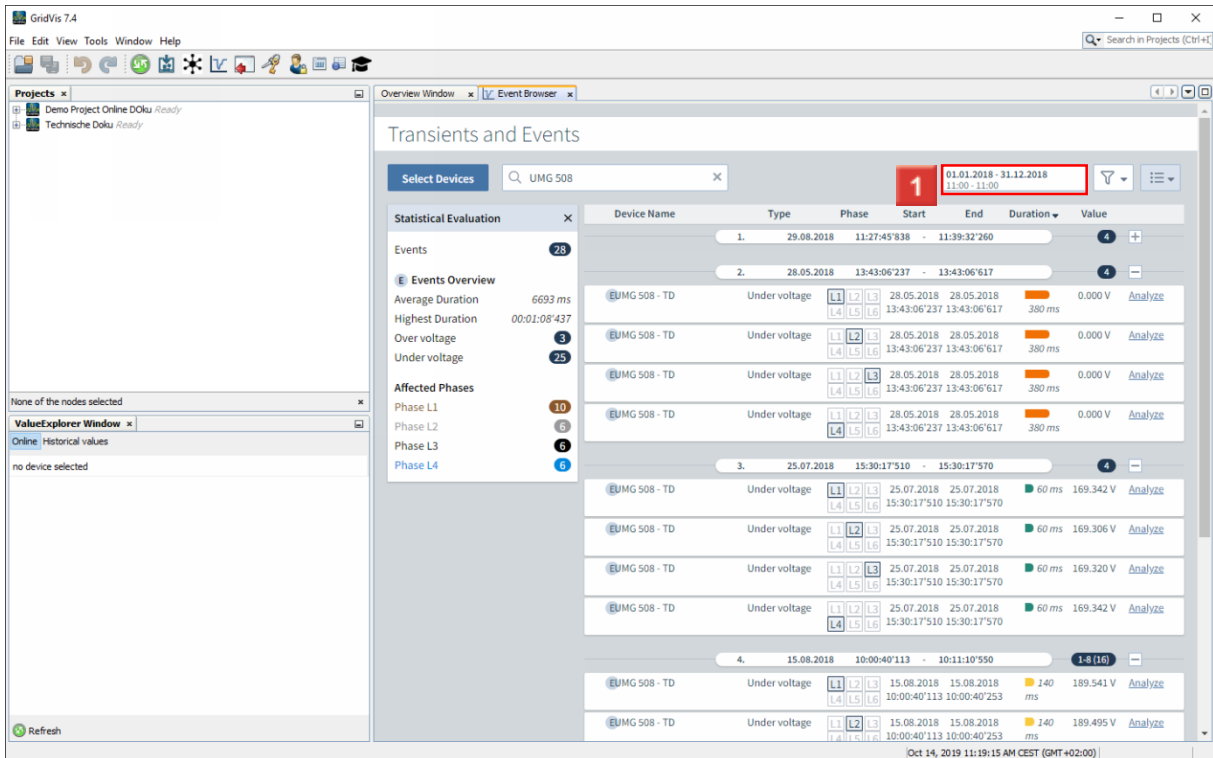
1 Select a predefined color. (As an option, you can also select the color via the corresponding hexadecimal or RGB value or use the Color Picker.)



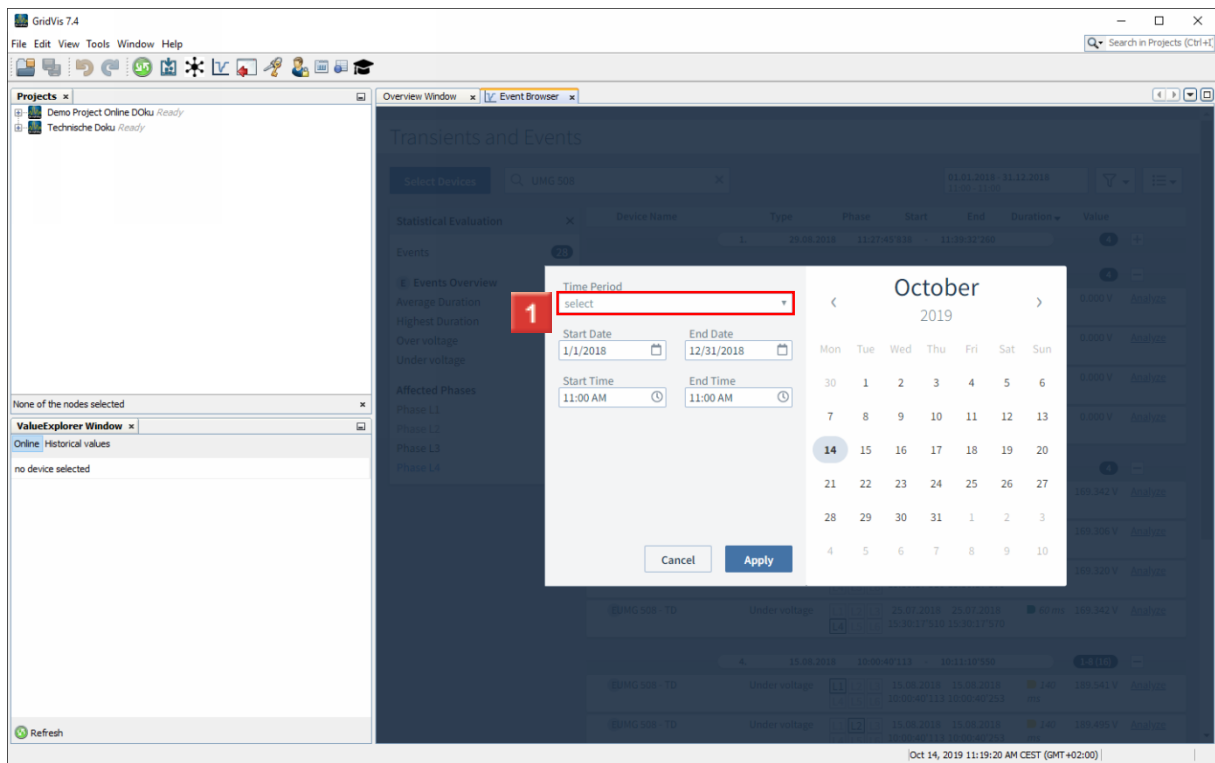
1 Click the **Select** button.



1 Click the **Close Window** button.

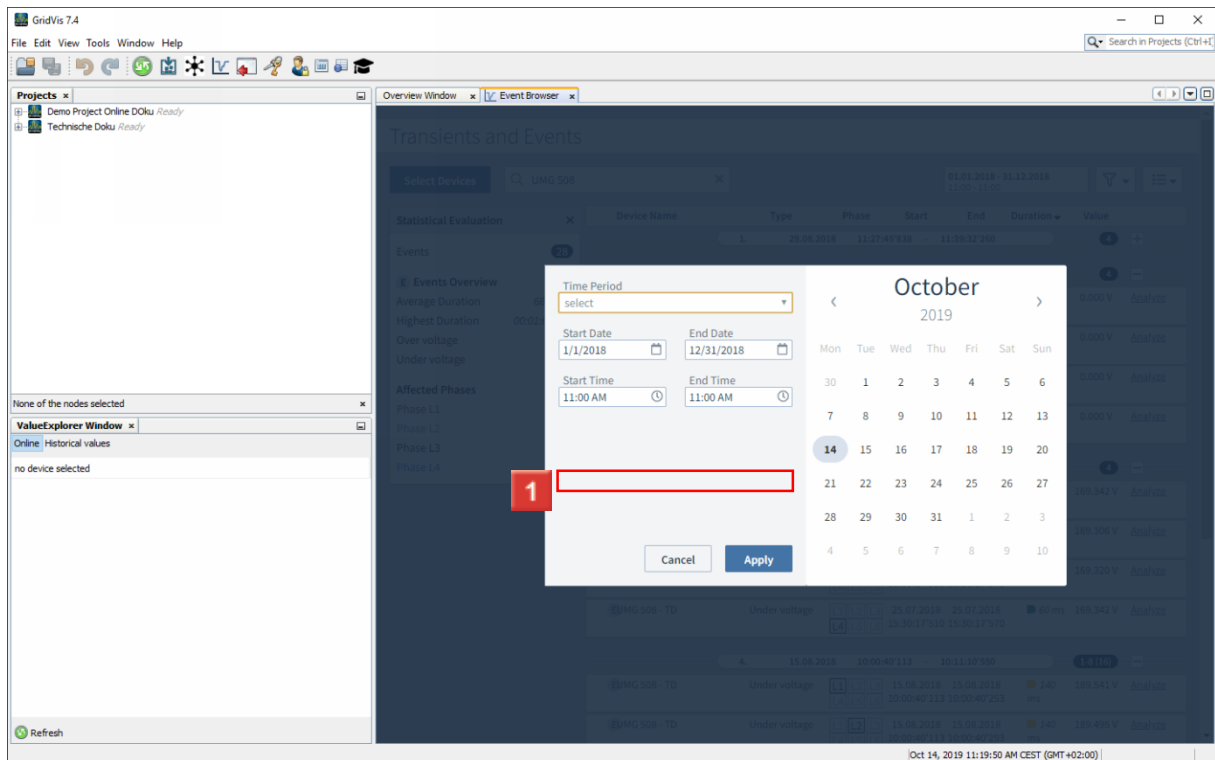


1 Click on the display of the time period to modify it.



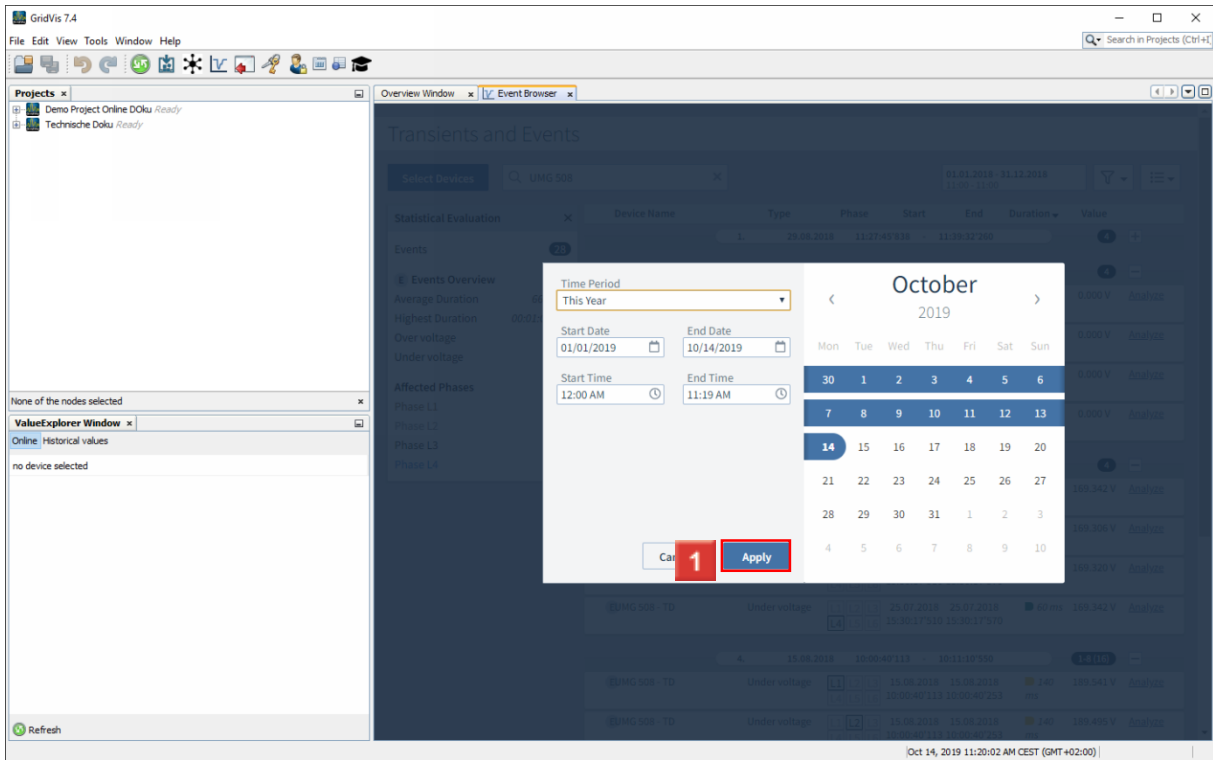
The screenshot shows the GridVis 7.4 Event Browser interface. A dialog box titled 'Time Period' is open, allowing users to filter events. The dialog includes a 'Time Period' dropdown menu (highlighted with a red box and the number '1'), 'Start Date' (1/1/2018) and 'End Date' (12/31/2018) fields, and 'Start Time' (11:00 AM) and 'End Time' (11:00 AM) fields. A calendar for October 2019 is displayed on the right side of the dialog. The background shows a table of events with columns for Device Name, Type, Phase, Start, End, Duration, and Value.

1 Click the **Time Period** dropdown button.



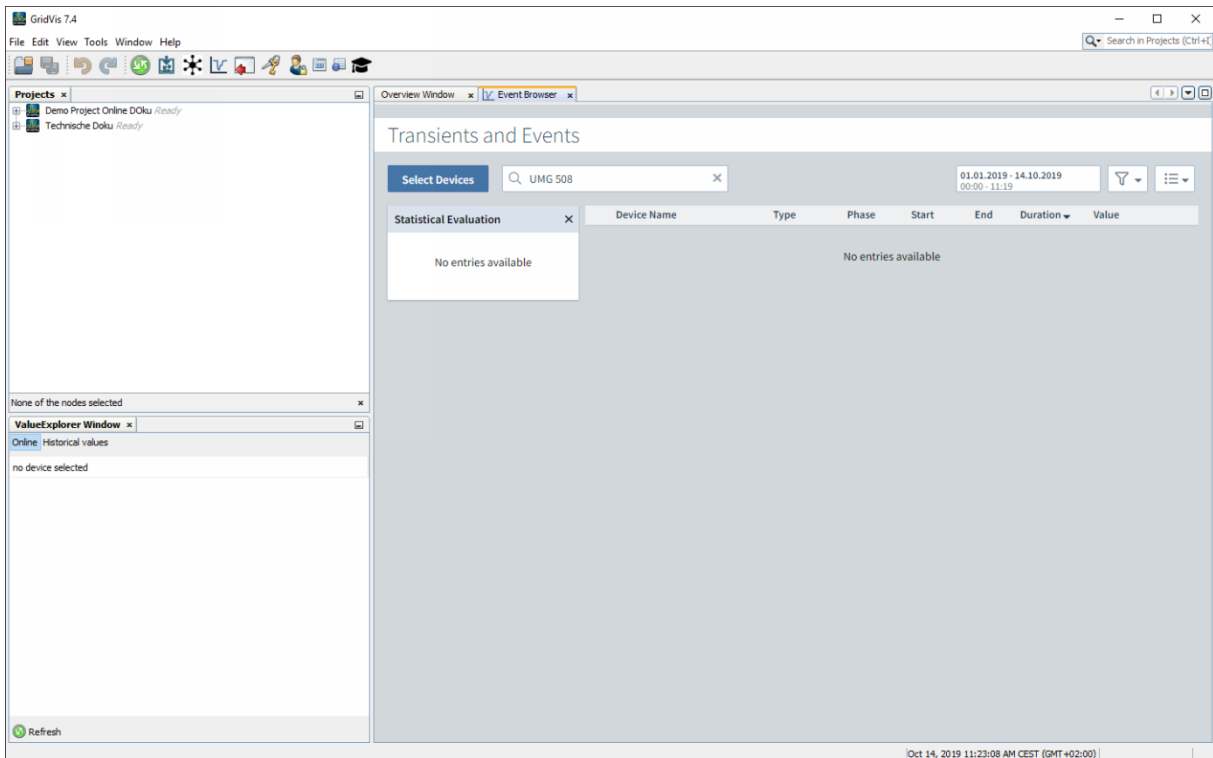
The screenshot shows the same GridVis 7.4 Event Browser interface. The 'Time Period' dialog box is open, and a red box with the number '1' highlights the list of predefined time periods. The list includes options like 'select', '1h', '2h', '3h', '4h', '5h', '6h', '7h', '8h', '9h', '10h', '11h', '12h', '13h', '14h', '15h', '16h', '17h', '18h', '19h', '20h', '21h', '22h', '23h', '24h', '25h', '26h', '27h', '28h', '29h', '30h', '31h', '1d', '2d', '3d', '4d', '5d', '6d', '7d', '8d', '9d', '10d', '11d', '12d', '13d', '14d', '15d', '16d', '17d', '18d', '19d', '20d', '21d', '22d', '23d', '24d', '25d', '26d', '27d', '28d', '29d', '30d', '31d', '1m', '2m', '3m', '4m', '5m', '6m', '7m', '8m', '9m', '10m', '11m', '12m', '13m', '14m', '15m', '16m', '17m', '18m', '19m', '20m', '21m', '22m', '23m', '24m', '25m', '26m', '27m', '28m', '29m', '30m', '31m', '1y', '2y', '3y', '4y', '5y', '6y', '7y', '8y', '9y', '10y'. The background shows the same event table as the previous screenshot.

1 Select a predefined time period from the list.



1 Click the **Apply** button.

i As an option, you can also select a custom time period.



Please enter your text here.

Filtering the list

Use the search field and the Filter button to reduce the size of the list of events/transients to include only the most relevant.

Analyze

Use the Analyze function to open a more detailed view of individual events/transients.

Statistics

As an option, a statistical overview of all events/transients can be displayed.

Visualization of the duration of events/transients

The duration of the events/transients is visualized in the list view as a bar. You can use four limit values to specify as of what duration the bar is colored green/yellow/orange/red.