



Detector Thin Client

Version 1.2.5.0 Release Notes

Version	Name	Remarks	Date
1.0.0	Adi Brill	Final Document	2021.05.09



1. Multiple Classification

Classification of events window now allows to classify multiple events in one click.

Select several events from the “Historical Events” Screen and click on the tags button.

The following window will open.

Follow the classification procedure on the single events classification.

User Event Classification

FALSE Ignore Other **TRUE**

User classification **Undef**

Pending TimeStamp 2020-10-06 10:39:00

Trigger TimeStamp 2020-10-06 10:54:00

Close TimeStamp 2020-10-06 12:48:00

Classification TimeStamp

System Description (Flags)

Event group classification 0 - Undef

☒ Set user classification by group

User Description

☐ Overwrite existing status

☐ Classify also events from the above list
[Classify only non classified events]



2. Patterns

The patterns recognition window is available from the “File -> Patterns” option.

The screenshot displays the Detector Thin Client 1.2.5.0 interface. The 'Patterns' window is open, showing a list of patterns with columns for 'Pattern', 'Last TimeStamp', and 'Alarm Status'. The 'Patterns' menu item in the 'File' menu is highlighted with a red box. Below the patterns list, the 'Selected site data' table is visible, showing various sensor readings. To the right, a map of Jerusalem is displayed, showing various locations and landmarks.

Pattern	Last TimeStamp	Alarm Status
RUN Bayit_Vagan	2020-06-05 07:30:00	
RUN Nave_Yaacov_RE	2020-06-05 07:30:00	
RUN Romema	2020-06-05 07:30:00	
RUN Sanhedriya	2020-06-05 07:30:00	
RUN Shvil_Zukim	2020-10-13 15:02:07	

Field	Units	Data
TimeStamp	*	2021-05-01 6:20:00 PM
CL	mg/L	0.32
TU	NTU	0.25
pH	SU	7.49
PR	SU	48.00
FL	Meter	815.50
LT	LT-CM	1229.00
PR_Out	LT-CM	15.00

Alarm Type	Key	Start Time	Trigger Time	Description
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Patterns Manager									
Patterns List Manual Pattern Analysis Automatic Patterns Engine Analysis setup Results									
	Id	Pattern Tag	Description	SourceModel	Measurement	Status	Type	Start Time stamp	End TimeStamp
	1	POSITIVE_SPIKE	Test1	Bayit_Vagan	FreeCL	Edit	Bad	2021-04-24 12:14	2021-04-24 12:33
	2	NEGATIVE_SPIKE	Test 2	Bayit_Vagan	FreeCL	Edit	Bad	2021-04-21 12:06	2021-04-21 12:12
	3	NEGATIVE_SPIKE	Negative_spike_cl	Bayit_Vagan	FreeCL	Edit	Bad	2021-04-04 08:35	2021-04-04 09:34
	4	POSITIVE_SPIKE	Positive_spike_Turbidity	Bayit_Vagan	Turbidity	Edit	Bad	2021-04-04 08:39	2021-04-04 09:19
	5	POSITIVE_SPIKE	positive_spike_cl	Bayit_Vagan	FreeCL	Edit	Bad	2021-04-24 12:20	2021-04-24 12:34
	6	POSITIVE_SPIKE	positive_spike_ph	Bayit_Vagan	pH	Edit	Bad	2020-12-24 08:20	2020-12-24 08:24
	7	NEGATIVE_AND_POSITIVE_SPIKE	negative_positive_spike_ph	Bayit_Vagan	pH	Edit	Bad	2021-04-04 08:51	2021-04-04 09:00
	8	NEGATIVE_PLATO	negative_plato_ph	Bayit_Vagan	pH	Edit	Bad	2020-12-24 08:24	2020-12-24 08:53
	9	NEGATIVE_SPIKE	negative_spike_TU	Bayit_Vagan	Turbidity	Edit	Bad	2021-04-21 12:06	2021-04-21 12:15
	10	POSITIVE_PYRAMID	positive_pyramid_cl	Bayit_Vagan	FreeCL	Edit	Bad	2021-04-26 12:28	2021-04-26 12:28
	11	POSITIVE_TIER	positive_tier_cl	Bayit_Vagan	FreeCL	Edit	Bad	2021-03-01 03:19	2021-03-01 03:55
	12	NEGATIVE_TIER	negative_tier_cl	Bayit_Vagan	FreeCL	Edit	Bad	2021-03-01 06:36	2021-03-01 07:20
	13	RIGH_SIDE_POSITIVE_HUMP	right_side_positive_hump_cl	Bayit_Vagan	FreeCL	Edit	Bad	2021-02-15 10:18	2021-02-15 01:03
	14	NEGATIVE_PLATO	negative_plato_cl	Gilo	TotalCL	Edit	Bad	2021-01-07 03:37	2021-01-07 11:03
	16	POSITIVE_PLATO	positive_plato_cl	Gilo	TotalCL	Edit	Bad	2021-02-12 06:14	2021-02-12 08:55
	18	POSITIVE_TIER	positive_tier_tu	Gilo	Turbidity	Edit	Bad	2021-02-14 06:12	2021-02-14 06:22
	19	NEGATIVE_TIER	negative_tier_tu	Gilo	Turbidity	Edit	Bad	2021-02-14 05:52	2021-02-14 06:07
	20	POSITIVE_TIER	positive_tier_ph	Gilo	pH	Edit	Bad	2020-05-30 06:50	2020-05-30 07:27
	23	NEGATIVE_AND_POSITIVE_SPIKE	negative_positive_spike_tu	Gilo	Turbidity	Edit	Bad	2021-02-09 10:31	2021-02-09 11:18
	24	NEGATIVE_SPIKE	negative_spike_ph	Gilo	pH	Edit	Bad	2021-02-02 11:31	2021-02-02 11:37
	25	NEGATIVE_AND_POSITIVE_SPIKE	negative_positive_spike_cl	En_Karem	TotalCL	Edit	Bad	2021-04-25 05:07	2021-04-25 06:06
	26	LEFT_SIDE_NEGATIVE_HUMP	leftside_negative_hump_cl	En_Karem	TotalCL	Edit	Bad	2021-04-27 07:48	2021-04-27 08:36
	27	NEGATIVE_SPIKE	negative_spike_flow	Beit_Hakern	Flow	Edit	Bad	2021-04-26 11:22	2021-04-26 11:31
	28	NEGATIVE_SPIKE	negative_spike_pressure	Beit_Hakern	Pressure	Edit	Bad	2021-04-26 11:16	2021-04-26 11:38
	29	POSITIVE_AND_NEGATIVE_SPIKE	positive_negative_spike_cl	Beit_Hakern	TotalCL	Edit	Bad	2021-04-13 06:52	2021-04-13 07:43
	31	POSITIVE_PLATO	positive_plato_tu	Beit_Hakern	Turbidity	Edit	Bad	2021-04-04 09:14	2021-04-04 10:05
	32	POSITIVE_SPIKE	positive_spike_plus_tier_tu	Beit_Hakern	Turbidity	Edit	Bad	2021-03-24 01:16	2021-03-24 02:48
	34	LEFT_SIDE_POSITIVE_HUMP	leftside_positive_hump_ph	Beit_Hakern	pH	Edit	Bad	2021-03-10 04:50	2021-03-10 07:52

Edit Pattern

Event Properties

Id: 1

Tag: POSITIVE_SPIKE

Description: Test1

Model: BoyIt_Vagan

Measurement: FreeCL

Status: Edit

Type: Bad

Trigger Value [≥ 0]: 0

From: 2021/04/24 12:14:00

To: 2021/04/24 12:33:00

☒ Show event with vertical lines

Chart Properties

Display Start Time Stamp: 2021/04/24 01:37:51

Display End Time Stamp: 2021/04/25 01:37:51

Days per step: 1

☒ Show ALL DAY chart

Validation Limits: Min: 0, Max: 0

Chart

FreeCL

2.0

1.8

1.6

1.4

1.2

1.0

0.8

0.6

0.4

0.2

0.0

2021-04-24 00:00

2021-04-24 09:36

2021-04-24 19:12

2021-04-25 04:48

2021-04-25 14:24

2021-04-26 00:00

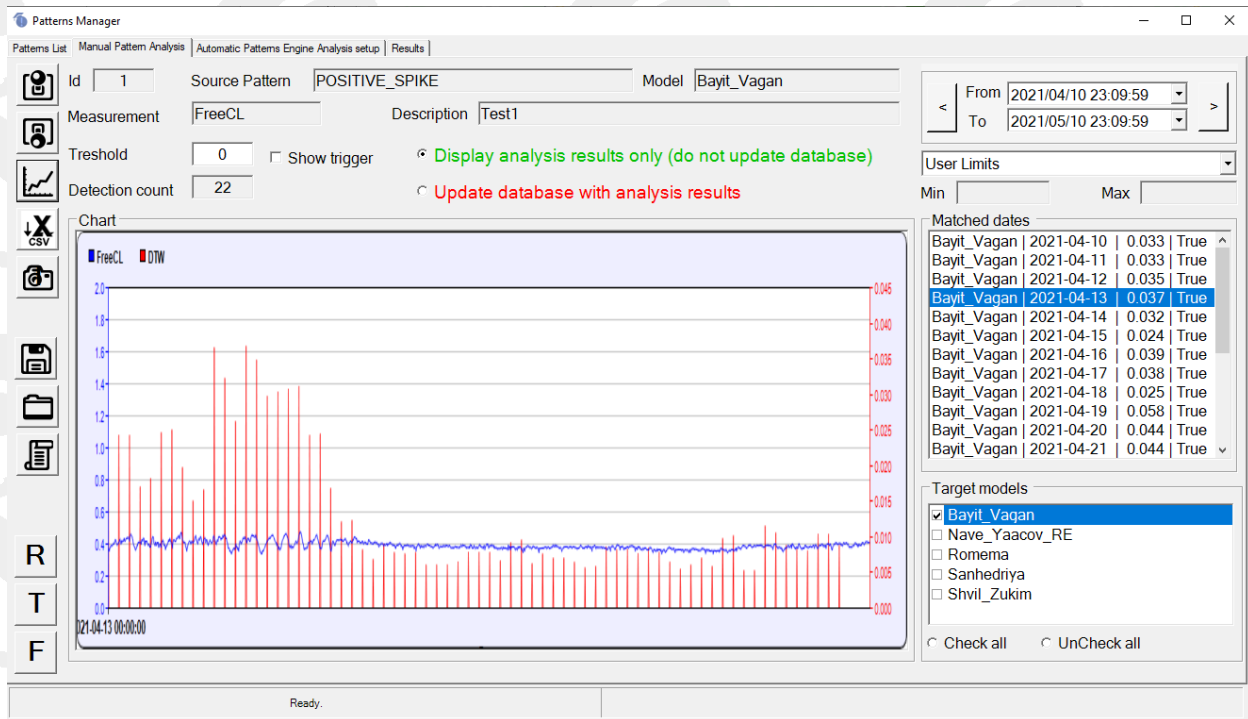
Ready.

4



The second tab shows the manual analysis window. Select a pattern from the list on the previous tab with a double click. The manual analysis runs the pattern recognition selected dates and models. The chart buttons shows the chart on a record selected from the list on the right.

To define a record click on the T or F buttons on the left. They will define the record as either True identification or False identification.





The Automatic Patterns Engine sets an automatic run of pattern recognition process, according to the settings defined by the user.

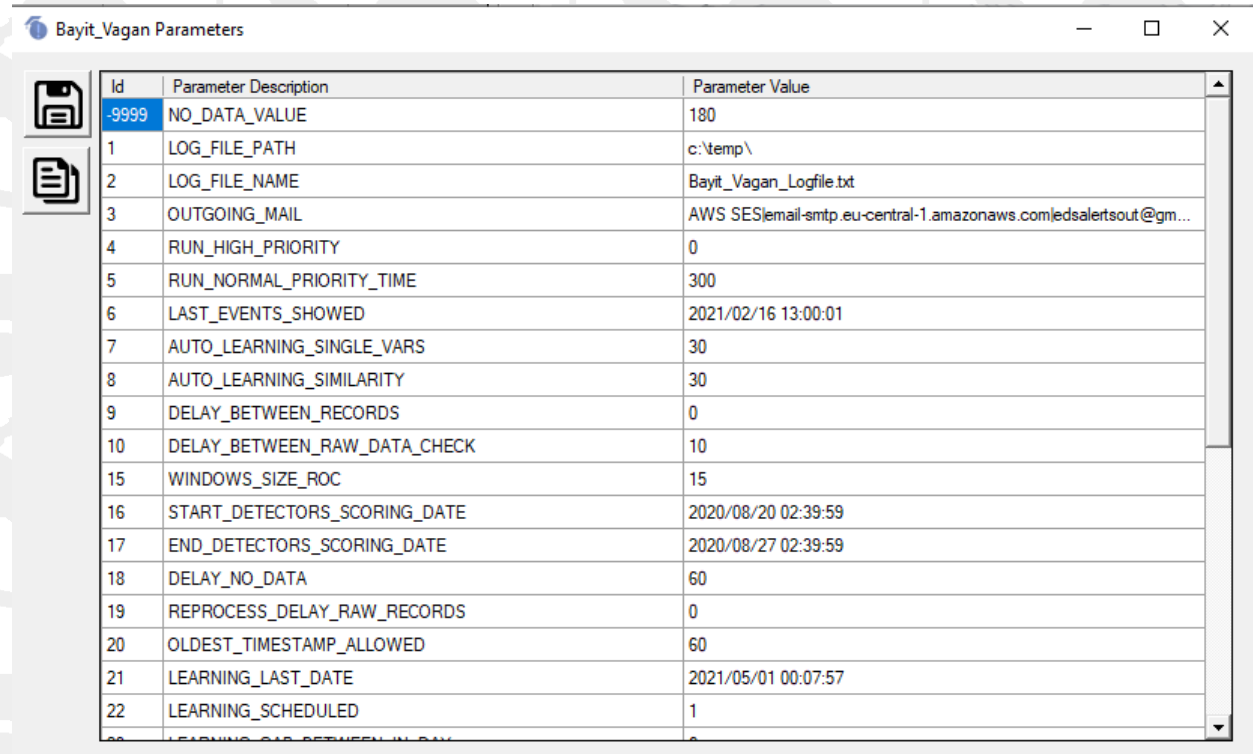
The screenshot shows the 'Patterns Manager' application window with the 'Automatic Patterns Engine Analysis setup' tab selected. The window contains the following elements:

- Patterns List**: A tabbed interface with 'Patterns List', 'Manual Pattern Analysis', 'Automatic Patterns Engine Analysis setup', and 'Results'.
- Scan schedule**: A section with three radio buttons: 'No Scan', 'Scan at fixed hour of the day' (with a value of 2), and 'Scan every X minutes' (with a value of 7).
- Target dates**: A section with two radio buttons: 'Scan last X hours' (with a value of 23) and 'Scan target dates'. The 'Scan target dates' option has 'From' and 'To' date pickers set to '2021/04/25 21:01:03' and '2021/04/27 21:01:03' respectively.
- Target models**: A list of checkboxes for 'Bayit_Vagan', 'Nave_Yaacov_RE', 'Romema', 'Sanhedriya', and 'Shvil_Zukim'. All are currently unchecked.
- Check all / UnCheck all**: Two buttons at the bottom of the target models list.
- Scan log location**: A text field containing 'c:\EDS_Patterns_log\'. Below it is a note: '<--- Use these buttons to schedule automatic scan now'.
- Icons**: Two icons (a folder and a document) are located at the bottom left of the main content area.
- Status bar**: A status bar at the bottom of the window showing 'Ready.'



3. Parameters Screen

The parameters screen opens from the right click menu of the main models list. It shows the parameters of the model.



The screenshot shows a window titled "Bayit_Vagan Parameters" with a table of parameters. The table has three columns: "Id", "Parameter Description", and "Parameter Value". The "Id" column is highlighted in blue. The table contains 22 rows of parameters.

Id	Parameter Description	Parameter Value
-9999	NO_DATA_VALUE	180
1	LOG_FILE_PATH	c:\temp\
2	LOG_FILE_NAME	Bayit_Vagan_Logfile.txt
3	OUTGOING_MAIL	AWS SES(email-smtp.eu-central-1.amazonaws.com)edsalertsout@gm...
4	RUN_HIGH_PRIORITY	0
5	RUN_NORMAL_PRIORITY_TIME	300
6	LAST_EVENTS_SHOWN	2021/02/16 13:00:01
7	AUTO_LEARNING_SINGLE_VARS	30
8	AUTO_LEARNING_SIMILARITY	30
9	DELAY_BETWEEN_RECORDS	0
10	DELAY_BETWEEN_RAW_DATA_CHECK	10
15	WINDOWS_SIZE_ROC	15
16	START_DETECTORS_SCORING_DATE	2020/08/20 02:39:59
17	END_DETECTORS_SCORING_DATE	2020/08/27 02:39:59
18	DELAY_NO_DATA	60
19	REPROCESS_DELAY_RAW_RECORDS	0
20	OLDEST_TIMESTAMP_ALLOWED	60
21	LEARNING_LAST_DATE	2021/05/01 00:07:57
22	LEARNING_SCHEDULED	1