



Detector Thin Client

Version 1.2.0.0 Release Notes

Version	Name	Remarks	Date
1.0.0	Adi Brill	Final Document	2021.01.10



1. Calibration Screen

The calibration screen allows finding the optimal delay time and limits expansion percentage

For the current detector. The calibration screen is currently available only for the “variable out of statistical limits” detector.

Alarm Type	Detector Key	Active	Delay before trigger	Delay after oper change	Delay after last event close
NODATA	*	1	120	0	0
DYNAMIC_CHANGE_RARE	*	1	30	15	15
BAD_SIMILARITY	*	1	30	15	15
NO_SIMILARITY	*	1	30	5	5
VAR_ROC	CL	1	5	0	10
VAR_ROC	pH	1	5	0	10
VAR_ROC	TU	1	5	0	10
VAR_LONG_TREND	CL	1	60	0	60
VAR_LONG_TREND	pH	1	60	0	60
VAR_LONG_TREND	TU	1	60	0	60
VAR_FIXED	CL	1	1440	15	15
VAR_FIXED	LT1	1	1440	15	15
VAR_FIXED	LT2	1	1440	15	15
VAR_FIXED	pH	1	1440	15	15
VAR_FIXED	TU	1	1440	15	15
VAR_OUT_OF_STATISTICAL_LIMITS	CL	1	15	15	15
VAR_OUT_OF_STATISTICAL_LIMITS	LT	1	1440	15	15
VAR_OUT_OF_STATISTICAL_LIMITS	pH	1	15	15	15
VAR_OUT_OF_STATISTICAL_LIMITS	TU	1	15	15	15
VAR_OUT_OF_USER_LIMITS	CL	1	15	15	15
VAR_OUT_OF_USER_LIMITS	FL	1	1440	15	15
VAR_OUT_OF_USER_LIMITS	LT	1	1440	15	15
VAR_OUT_OF_USER_LIMITS	LT1	1	1440	15	15

Filter detectors by variables

Activate filter by variable names

- CL
- TU
- pH
- LT1
- FL
- P1
- P2
- P3
- P4
- P5
- V1
- V2
- LT2
- PRIn

Filter detectors by type

Activate filter by detector types

- NO_ALARM
- VAR_OUT_OF_USER_LIMITS
- VAR_OUT_OF_STATISTICAL_LIMIT
- VAR_FIXED
- VAR_LONG_TREND
- VAR_ROC
- RULE_VIOLATION
- NO_SIMILARITY
- BAD_SIMILARITY
- DYNAMIC_CHANGE_RARE
- DYNAMIC_CHANGE_BAD

Show only active alerts

Show learning result

Double click on the relevant detector to open the detectors screen.



the calibration screen is available from this button

Detector Policy Editor

Detector type: VAR_OUT_OF_STATISTICAL_LIMITS

Detector key: CL Active

Delay before trigger (min): 15

Delay after operational change (min): 15

Delay after last event close (min): 15

Notification policy: 0 - Every trigger

Base severity: 1 - LOW

Block On Rule: [Empty]

Block Off Rule: [Empty]

P1 - Change Minimum Limit: [Empty]

P2 - Change Maximum Limit: [Empty]

Info

```
User Low.....:0.20
User High.....:0.80
Statistical Low...:0.23
Statistical High...:0.63
Average.....:0.41
Median.....:0.42
STD.....:0.07
```

History of changes

Name	Value

Detector performance

TP	FP	FN	NC	OT+IG
0	0	0	0	0

Events date range: From:2020/01/01 00:00:00 to:2020/04/23 15:18:57

Last calculation: 0001-01-01 00:00:00

Buttons: [Checkmark] [EXIT] [Print] [Calibration] (highlighted in red)



The calibration screen contains several controls. The delay time controls, and the limits' percentage controls. It is possible to control the delay time interval, maximum and minimum. You can also choose

Name	Current value
Stat Min	0.225
Stat Max	0.632

Start date: 2020/01/12 17:38:12 End date: 2021/01/11 17:38:12

Rows: Delay time (Min) 15 Delay time (Max) 120 Delay time interval 15

Columns: Percentage Max 50 Percentage Interval 5

the percentage interval and maximum. After you have selected start and end date.



Click on the “Run” button to see the results of the calibration analysis. A progress bar will show on the screen.

Gilo (CL) Detector Calibration Assistance

Detector VAR OUT OF STATSTICAL LIMITS **Key** CL

Parameters for calibration


Name	Current value
Stat Min	0.225
Stat Max	0.632




Start date: 2020/01/12 17:38:12 End date: 2021/01/11 17:38:12

Rows Delay time (Min) 15 Delay time (Max) 120 Delay time interval 15

Columns Percentage Max 50 Percentage Interval 5

Performance chart

Delay Time	0%	5%	10%	15%	20%	25%	30%	35%
<div style="border: 2px solid red; padding: 10px;"><p>Progress Indicator</p><div style="text-align: center;"></div><p>Delay Time: 15/120 Percentage: 50/50</p></div>								



The table will show the results for each delay time and limits. If you would like to modify the detector according to a certain result, click on your selected cell and then click the tick button.

Gilo (CL) Detector Calibration Assistance

Detector **VAR OUT OF STATSTICAL LIMITS** Key **CL**

Parameters for calibration

Name	Current value
Stat Min	0.225
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Start date: 2020/01/12 17:38:12 End date: 2021/01/11 17:38:12

Rows: Delay time (Min) 15 Delay time (Max) 120 Delay time interval 15

Columns: Percentage Max 50 Percentage Interval 5

Performance chart

Delay Time	0%	5%	10%	15%	20%	25%	30%	35%
15	52	70	120	53	11	9	11	9
30	32	38	48	23	6	3	3	4
45	24	29	29	14	4	3	3	4
60	21	20	19	10	3	3	2	2
75	17	18	17	7	2	2	2	2
90	17	16	12	6	2	2	2	2
105	17	14	12	6	2	2	2	2
120	14	11	10	5	1	1	1	1

Navigation icons: Home, **Tick**, Exit



After you confirm, the following fields will be updated with the new values. To save these settings, click on the tick again. You must ensure that the model is in PAUSE state in order to save the new settings.

The screenshot shows the 'Detector Policy Editor' window with the following settings:

- Detector type: VAR_OUT_OF_STATISTICAL_LIMITS
- Detector key: CL
- Delay before trigger (min): 15
- Delay after operational change (min): 15
- Delay after last event close (min): 15
- Notification policy: 0 - Every trigger
- Base severity: 1 - LOW
- Block On Rule: (empty)
- Block Off Rule: (empty)
- P1 - Change Minimum Limit: (empty)
- P2 - Change Maximum Limit: (empty)
- Active:

Info

```
User Low.....:0.20
User High.....:0.80
Statistical Low..:0.23
Statistical High.:0.63
Average.....:0.41
Median.....:0.42
STD.....:0.07
```

History of changes

Name	Value

Detector performance

TP	FP	FN	NC	OT+IG
0	0	0	0	0

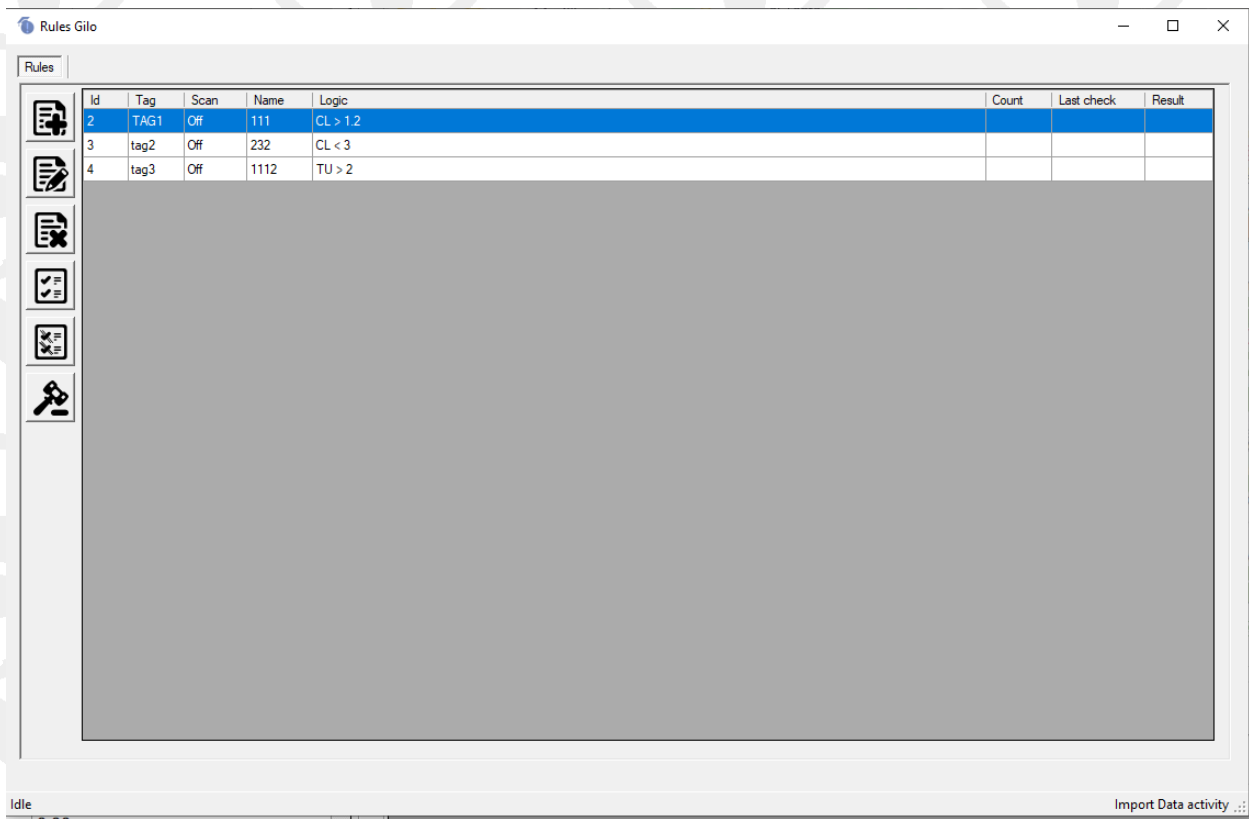
Events date range: From:2020/01/01 00:00:00 to:2020/04/23 15:18:57
Last calculation: 0001-01-01 00:00:00

Buttons: [Checkmark] [EXIT] [Print] [Refresh]



2. Rules

The rules mechanism is now available from the right click menu of the models list.



You can add, edit and delete rules while the models are in PAUSE state.