

Introduction:

An approach of reading historic data from historical register database and auto-classify the alarms based on event processing status received previously.

Know your environment - Using Machine learning clustering algorithm historic alarms will be grouped based on the respective event processing status.

Identify failures - Perform sentiment analysis over the event processing status updates the respective results against faults which enables to identify problematic values.

Automatic failure issue identification - Failure areas are auto-labeled using keywords, represents sentiment result negative and N, represents sentiment result neutral.

Resolution of faults :-

L - When alarm contains negative sentiment result for its any of the event processing status is considered as faulty event processing.

N - When alarm contains neutral sentiment result for half and more than half of the input status, faults.

R - When numerical - 1 are called as outlier i.e. rare combination of issue is getting reported errors.

Steps from the production :-

Historical event processing results predicted early by which required actions to address the event processing results can be performed (eg. bug collection for false alarming, perform event processing manually to avoid business impact)

Discovered issue tables:-

apnname_1	alarmtype_1	apnname_2	alarmtype_2	alarmtype_3	alarmtype_4
Automation/Fire Prevention	Successfully Completed Time	Final Response	Successfully (R) Notifiable	Failure/Other	00
Alarm/Notification Status/Fault	Successfully Completed Time	Final Response	Successfully (R) Notifiable	Failure	00
Alarm/Notification Status/Fault	Failure	Final Response	Successfully (R) Notifiable	Failure	00
Automation/Fire Prevention	Unsuccessfully Completed Time or any	Final Response	Successfully (R) Notifiable	Failure/Other	00
Automation/Fire Prevention	None	N, Identification from / Issue description	Failure/Other	Failure/Other	00

appriseevent_id	classification_id	appriseeventdetails_id	notification_id	status
Volume Notifications action:Failed	None	Final Response Successfully if false or 0%	Failed	20
Volume Notifications action:Failed	Failed	Final Response Successfully if false or 0%	Completed Successfully	20
Volume Notifications action:Failed	Successfully Completed Final	Final Response Successfully if false or 0%	Failed	20
Automation Filter Processed	None	Final Response Successfully if false or 0%	Failed (empty)	27
Enrichment done	Failed	Final Response Successfully if false or 0%	Completed Successfully	20
Volume Notifications action:Failed	Successfully Completed Final	Final Response Successfully if false or 0%	Completed Successfully	20
Automation Filter Processed	Successfully Completed Final	Final Response Successfully if false or 0%	Failed (empty)	24
Volume Notifications action:Failed	Failed	Final Response Successfully if false or 0%	Failed	2
Automation Filter Processed	Failed	Final Response Successfully if false or 0%	Completed Successfully	2
Volume Notifications action:Failed	Successfully Completed Final	Final Response Successfully if false or 0%	Completed Final	20

Discovered Suspected tables:-

appriseevent_id	classification_id	appriseeventdetails_id	notification_id	status
Automation Filter Processed	Unsubscribed Initially time to expire	Final Response Successfully 0% false or 0%	Failed (empty)	20
Automation Filter Processed	None	A Notification has been accepted	Failed (empty)	20
Automation Filter Processed	Unsubscribed Initially time to expire	A Notification has been accepted	Completed Successfully	20
Automation Filter Processed	Successfully Completed Final	Final Response Successfully if false or 0%	Failed	20
None	None	Final Response Successfully if false or 0%	Successfully Completed Final	20
Automation Filter Processed	None	Final Response Successfully if false or 0%	Completed Successfully	20
Automation Filter Processed	Successfully Delivered	Final Response Successfully if false or 0%	Failed	20
Automation Filter Processed	None	Final Response Successfully if false or 0%	Failed (empty)	27
Options Completed successfully	None	A Notification has been accepted	Failed	24
Automation Filter Processed	Unsubscribed Initially time to expire	Final Response Successfully 0% false or 0%	Successfully Completed Final	20

agreement_type	disagreement_type	agreement_reason_type	disagreement_reason_type	cluster
Adherence Completed successfully	None	First Response Successfully Followed Up	None	2
Automated Filter Processed	Rejected	First Response Successfully Followed Up	Successfully Completed First	2

Discovered Cluster wise percentage:-



Discovered Label wise percentage:-



Timeline view on Discovered Label :-

