ANOMALY DETECTION IN KALIX

AUG 2025

PRODUCT IN DEVELOPMENT

elisa POLYSTAR

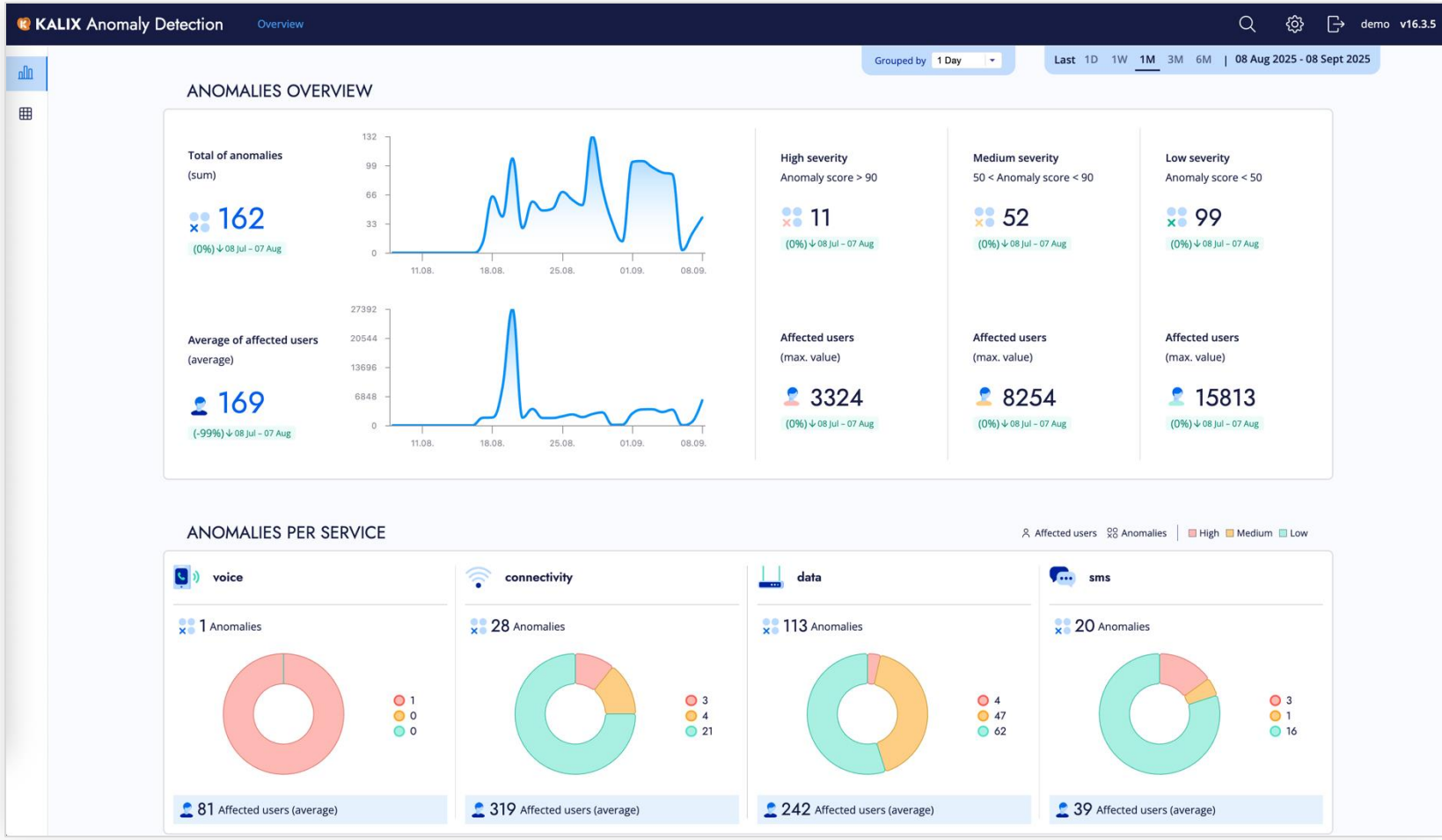
KALIX AI/ML

INTRODUCING KALIX AI ANOMALY DETECTION FEATURES

IN DEVELOPMENT

ELISAPOLYSTAR KALIX ANOMALY DETECTION

With advanced ML algorithms, ElisaPolystar KALIX AI anomaly detection ad-on module can detect network anomalies for multiple time series KPIs in the network and group and tag each anomaly as high, medium and low while showing the impacted number of customers on each anomaly group. Users can drill down to each anomaly cluster individually and system will provide automated root cause analysis highlighting the most related set of dimensions highly correlated with the detected anomaly



KALIX AI/ML

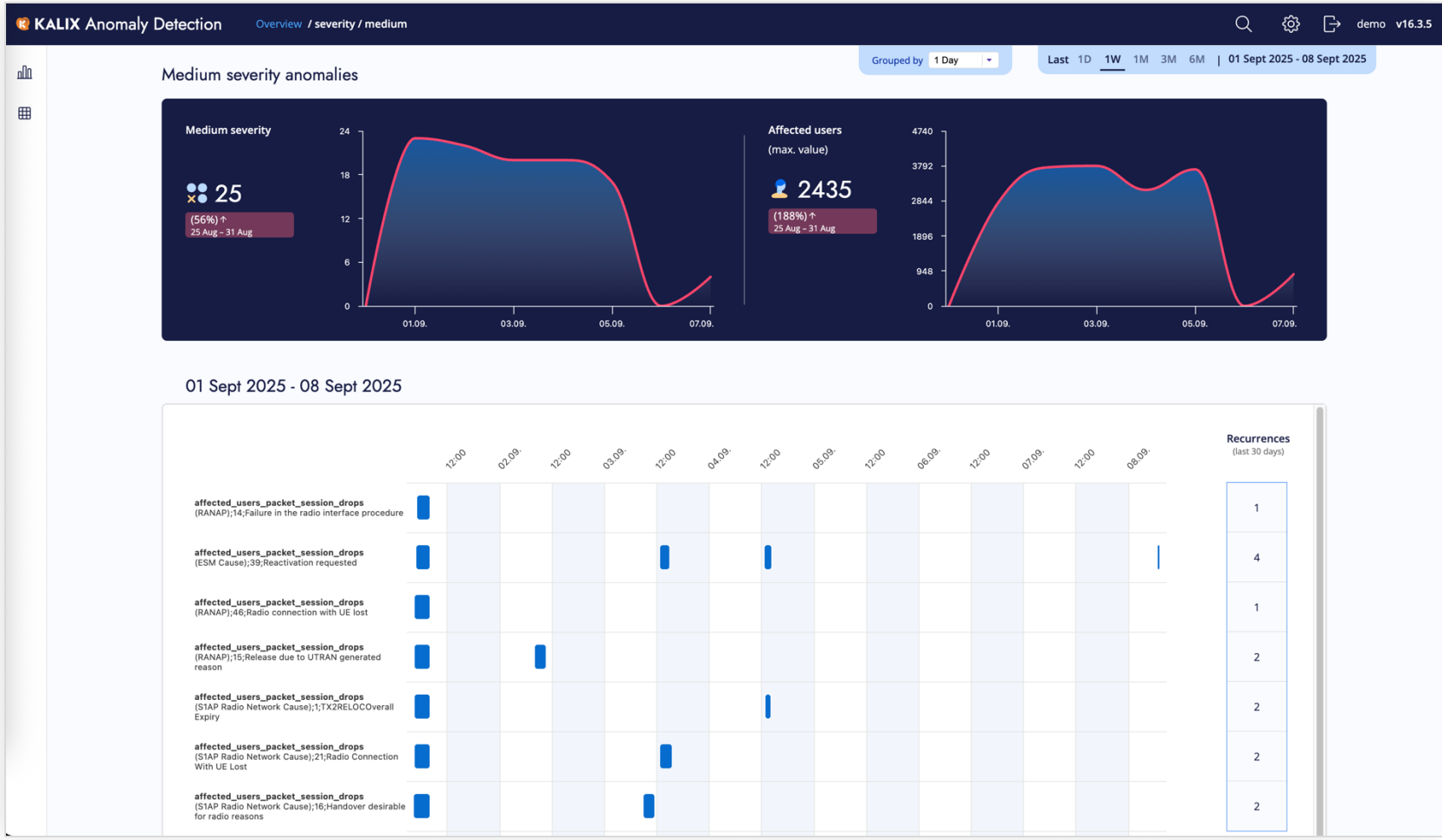
AUTOMATED ANOMALY CLUSTERING

IN DEVELOPMENT

AUTOMATIC GROUPING OF ANOMALIES FROM SPECIFIC SERVICE TOGETHER

With each anomaly detected, a timeline showing how chronic and repetitive each anomaly is forming a cluster that will allow the user to troubleshoot each anomaly individually according to the severity and when it happened and for how long it lasted, drilling down from each anomaly will show the cluster of segments/dimensions associated with the deviation (segment of interest)

This improves problem isolation quickly to get to the root cause of the issue, and which network elements might be causing the problem and which customer segment is impacted



KALIX AI/ML

AUTOMATIC ROOT CAUSE ANALYSIS

IN DEVELOPMENT

2 STEPS APPROACH INTO IDENTIFYING ANOMALIES IN THE NETWORK WITH AUTOMATIC ROOT CAUSE ANALYSIS

Pick an anomaly to identify when it started and when it ended and check the frequency of occurrence which can indicate a chronic issue. Prioritize anomalies with anomaly scoring built in to classify anomalies into High. Medium and low severity.

Anomalies represent deviations from predicted values, system constantly learn the pattern of the different time series KPIs fed into the system and adapts the thresholds for anomaly detection accordingly. Drill down to the cluster information to isolate segments of interest

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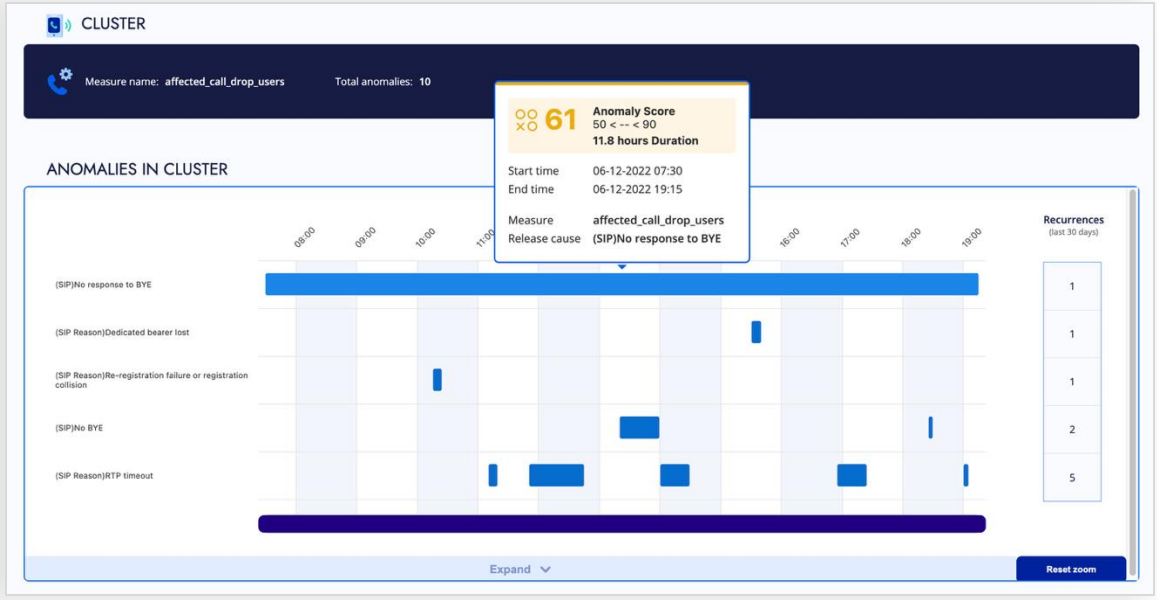


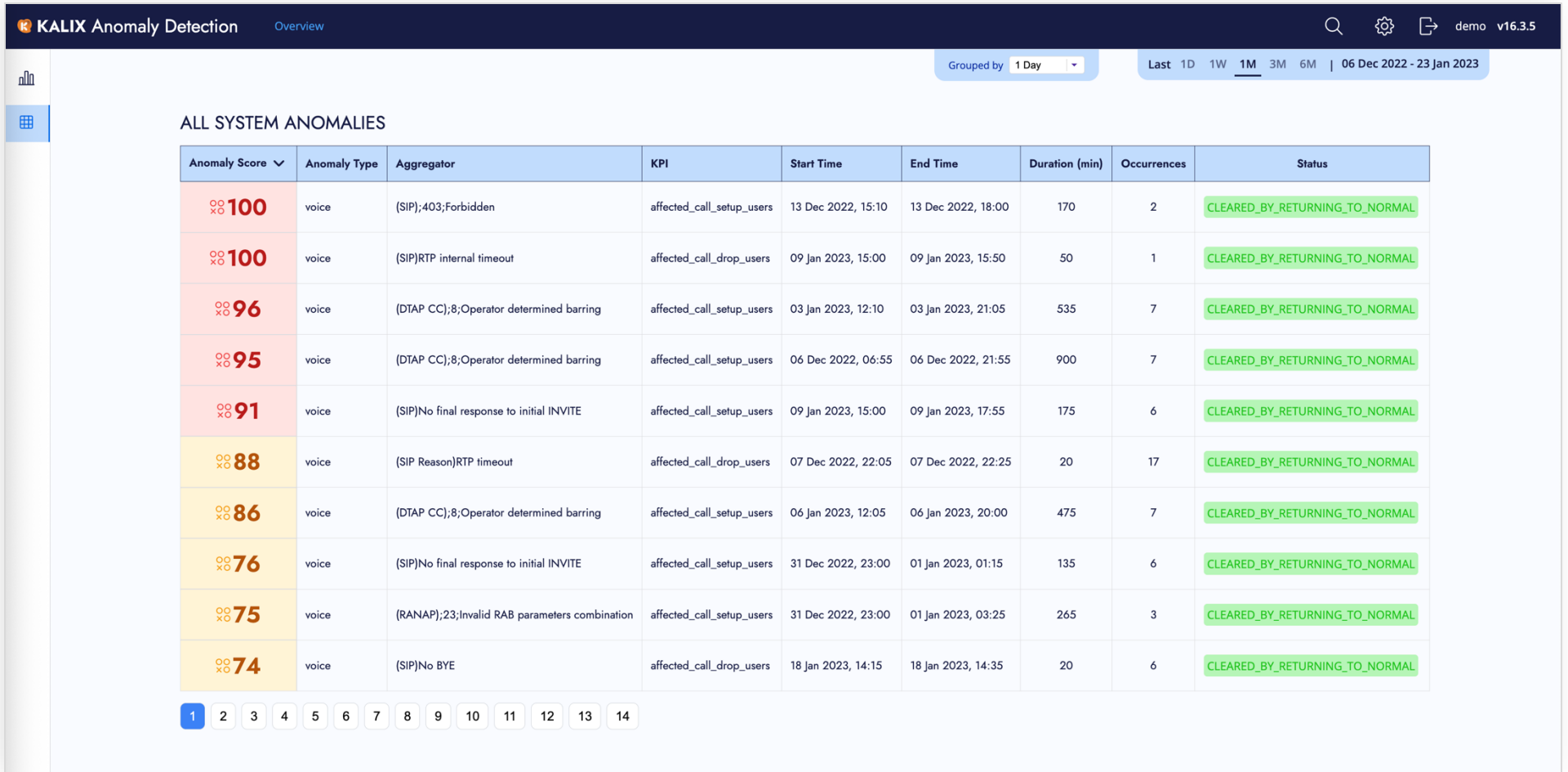
2

KALIX AI/ML

SEE WHAT MATTERS FIRST

ANALYZE MULTIPLE SERVICES AND KPIs AT ONCE

KALIX AI anomaly detection ad-on module can analyze multiple time series KPIs at the same time highlighting any anomalies detected within a certain measurement period indicating their severity and show all detected anomalies with their respected services In timeline format highlighting any correlation that could happen between two anomalies in two services happening at the same time

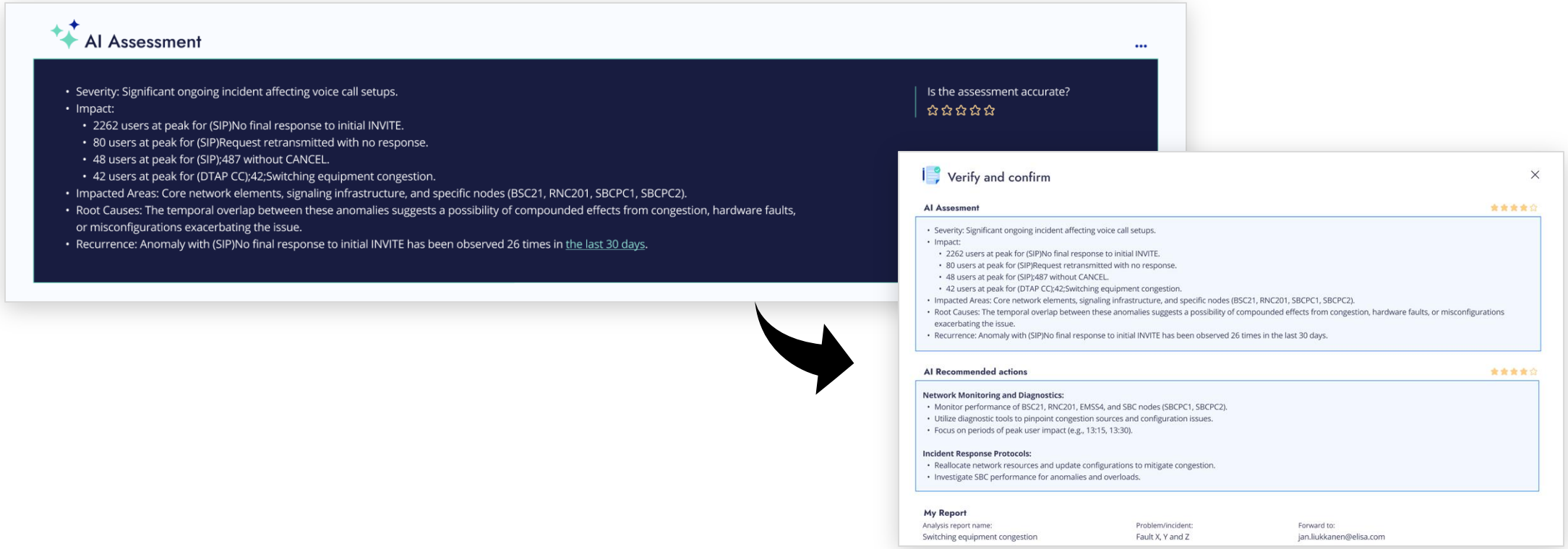


IN DEVELOPMENT

AI POWERED PROBLEM SUMMERIZATION AND INCIDENT REPORT GENERATION USING GENERAL AND PRIVATE KNOWLEDGE BASE MANAGEMENT

AI ASSESSMENT

With an integrated knowledge base management backend, customer can embed their own troubleshooting steps and comments on the anomalies detected for the system to learn from it then using LLM we can later give summery and recommendations assessments using generally available 3GPP knowledge base infused with privately added knowledge bases for more accurate analysis of the issues monitored and better next best actions



ACTIONABLE INSIGHTS SMART DECISION

AUTOMATED ASSURANCE SOLUTIONS

EP AI/ML TEAM
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