

TM Forum

ANLAV Report IOH

HVS: GB1523A – RAN Fault Management

Version: 3.0.0

Maturity Level: General Availability (GA)

Network: Indonesia

Score: 3.34

ANLAV Report: IOH – RAN Fault Management

Executive Summary of Second Review Cycle - 4 June 2026

Following the first review cycle, IOH submitted GB1523A V2 (“Add Security”) and provided second-cycle responses with new supporting evidence. V2 now carries a full Security subscenario weighted at 10% with evidence across all eight capabilities, resolving the first-cycle query on Security being weighted 0%. The scoring sheet is internally consistent: the per-subscenario rollups (Equipment 3.48, Processing Error 3.38, Communications 3.48, Environmental 3.48, Security 2.25) and the capability final score reconcile exactly to **3.34**. The second-cycle evidence closes the open Option A items. Data collection is substantiated by [REDACTED] (automated inventory/configuration) and [REDACTED] (automated KPI/counter collection) over SFTP/REST/Kafka. Fault identification impact is evidenced at customer level via [REDACTED] B2B and CID impacted-customer lists. Demarcation & Locating is driven by an intelligent Chain-of-Thoughts diagnosis process supported by alarm correlation and topology restoration, reaching the smallest field-replaceable unit (e.g. RF Unit CPRI → Optical Module/Fiber, Cabinet 0/Subrack 61/Slot 0, Board MRRU). Evaluation & decision-making is supported by multi-candidate priority/ranking with selected-versus-rejected diagnosis branches. **Intent-driven = Option B** (predefined-rule Auto-TT) and **Fault Prediction = Option C** (threshold-based risk) remain honestly claimed and are confirmed. Solution Implementation is scored at original 3 / compensated 3.4: the remote path now evidences auto-execution without human confirmation, with pre/post-checks and alarm-clear verification, while on-site FME Mate operates independently of NOC with automatic ticket closure. Security is honestly down-scored where manual intervention applies (Demarcation C, Solution generation C, Evaluation C, Solution implementation C, Fault identification B). Please note that a higher claimed and validated score in the future may require more genuinely stochastic AI function.

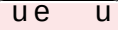
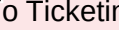
Validation conclusion: all eight capabilities are validated as claimed. Overall validated score: 3.34

ANLAV Report: IOH – RAN Fault Management Second Review Cycle - 4 June 2026

High-Value Scenario	Cognitive Activity (IAADE)	Service Capability	Weight	Question	Criteria				Answer					Method 1: Average (Official use)												Capability final score (60%)				
														Equipment (should include but not limit to Digital unit DU fault, RF module RU fault and Other hardware faults)		Processing Error (should include but not limit to Inconsistent configuration, Software license fault)		Communications (should include but not limit to Fronthaul link fault, Backhaul link fault, clock link fault, Antenna link fault)		Environmental (should include but not limit to External power supply failure, External equipment failure)		Security (should include but not limit to Key Expired, Authentication Failure, Unauthorised Access Attempt)								
					Option A	Option B	Option C	Option D	Equipment	Processing Error	Communications	Environmental	Security	Overall score	Insats score	Overall Score	Overall score	Insats score	Overall Score	Overall score	Insats score	Overall Score	Overall score	Insats score	Overall Score					
Wireless Network - Fault Management	Intent	Intent-driven	10%	How does the wireless network fault management system generate fault management task targets, policies and evaluate the implementation effect based on intent? Note: The Fault management intent can be declarative intent (e.g, the proportion of pre-event trouble tickets) or natrual language intent. The examples of fault management policy can be redundancy backup policies.	4	3	2	1	B	B	B	B	B	3	3	3.48	3	2	3.38	3	3	3.48	3	3	3.48	3	3	2.25	3.34	
	Awareness	Data collection & Alarm correlation	10%	How does the wireless network fault management system support automatic data collection & alarm correlation in various fault scenarios?	3	2	1		A	A	A	A	A	3	3.4		3	3.4		3	3.4		3	3.4		3	3			
		Fault Prediction	15%	How does the wireless network fault management system support fault prediction in various fault scenarios? Note: For example, the system predict the bit error rate and link interruption of fronthaul and predict the aging and damage of board.	4	3	2	1	C	C	C	C	C	2	2		2	2		2	2		2	2						
	Analysis	Fault identification & Impact analysis	15%	How does the wireless network fault management system support fault identification & fault impact analysis in various fault scenarios?	4	3	2	1	A	A	A	A	B	4	4		4	4		4	4		4	4		4	3			3
		Demarcation & Locating	20%	How does the wireless network fault management system support root cause diagnosis and fault locating in various fault scenarios? Note1: The root cause diagnosis and fault locating shall require the ability to locate smallest field replaceable unit, upgradable software modules and connectors so that a repair solution can be quickly determined. e.g, Optical module, fiber optic cable and optical connectors.	4	3	2	1	A	A	A	A	C	4	4		4	4		4	4		4	4		2	2			
		Solution generation	10%	How does the wireless network fault management system support generation of fault recovery solutions in various scenarios? Note1: Fault recovery solutions includes: the executable commands/ scripts for the remote faults that can be remotely recovered; or, On-site repair operation instructions for faults that require on-site handling. Note: 2: The examples of the fault recovery solutions can be the remote recovery solution, neighboring cell RF compensation recovery solution.	4	3	2	1	A	A	A	A	C	4	4		4	4		4	4		4	4		2	2			
	Decision	Evaluation and decision-making	10%	How does the wireless network fault management system support evaluation and decision-making in various scenarios?	4	3	2	1	A	A	A	A	C	4	4		4	4		4	4		4	4		2	2			
Execution	Solution implementation	10%	How does the wireless network fault management system support automatic execution of: 1) Repair commands/ scripts for the faults that can be remotely recovered; 2) On-site repair instruction for the faults that on-site handling is necessary (such as power supply failure, board fault, fiber cut) to enable the human: - to query the recommended checklists to repair the fault. - to check the fault resolution effect and generate the fault repair report.	3	2	1		A	A	A	A	C	3	3.4	3	3.4	3	3.4	3	3.4	3	3.4	1	1						

ANLAV Report: IOH – RAN Fault Management

Second Review Cycle - 4 June 2026

Capability Area	Capability	Score Claimed	Score Validated	Provided Evidence	TMF (GB1523A) requirements	Questions
Intent	Intent-Driven	B/B/B/B/B	B/B/B/B/B	Across Equipment, Processing Error, Communications and Environmental, IOH show  policy converted into  Fault  u e  u o Ticketing. The alarm catalogs are mapped by TM type and the OWS rule screens show predefined rule conditions, dispatch parameters and ticket association. This directly aligns with Option B: task targets are automatically generated from predefined rules, while the target/policy definition is manual. V2 adds the Security subscenario, driven by the same predefined Fault Rule engine (Auto-TT).	Option A: The system automatically generates fault management task targets and policies based on intent by using intelligent model. Fault management targets and policies need to be manually confirmed. The system automatically evaluates the implementation effect. Option B:The system automatically generates fault management task targets based on predefined rules. Fault management targets and policies need to be manually defined. The effect is manually evaluated after the intent is implemented. Note: The Fault management intent can be declarative intent (e.g, the proportion of pre-event trouble tickets) or natrua language intent. The examples of fault management policy can be redundancy backup policies.	VALIDATION FINALIZED – second cycle. Claimed Option B validated as claimed across all five subscenarios (incl. Security). No open items.

IOH Response:

ANLAV Report: IOH – RAN Fault Management

Second Review Cycle - 4 June 2026

Capability Area	Capability	Score Claimed	Score Validated	Provided Evidence	TMF (GB1523A) requirements	Questions
				The framework shows multi-vendor collection into [REDACTED] through CORBA, [REDACTED] through SNMP, robes feeding alarm queue/enrichment, [REDACTED] and Model/API integration and [REDACTED] or performance managemen	Option A: The system automatically collects data (alarm, configuration, and performance data etc.), and correlates alarms. All data required are automatically collected, no need for additional manually collected data.	VALIDATION FINALIZED – second cycle. Claimed Option B validated as claimed across all five subscenarios (incl. Security). No open items.
Awareness	Data collection & Alarm filtering	A/A/A/A/A	A/A/A/A/A			

IOH Response:

ANLAV Report: IOH – RAN Fault Management

Second Review Cycle - 4 June 2026

Capability Area	Capability	Score Claimed	Score Validated	Provided Evidence	TMF (GB1523A) requirements	Questions
Awareness	Fault Prediction	C/C/C/C/C	C/C/C/C/C	The prediction evidence explicitly states “potential risk tri er based on defined rule / threshold in Equipment, Processing Error, Commun ca ions and Environmental examples show chronic/threshold-triggered alarms, including interference/noise imbalance, service/no-connection issues, BTS O&M link failure, mains failure and high-temperature risks. This exactly matches Option C: risk identification using manually defined rules.	Option A: The system identifies potential risks and predicts the fault occurrence time based on intelligent models without the need for human intervention. Option B: The system identifies potential risks based on intelligent models, but cannot predict the fault occurrence time. Note: For example, the system predict the bit error rate and link interruption of fronthual and predict the aging and damage of board.	VALIDATION FINALIZED – second cycle: validated C/C/C/C/C (incl. Security). Threshold/defined-rule risk identification matches Option C; no intelligent-model occurrence-time prediction claimed. No open items.

IOH Response:

ANLAV Report: IOH – RAN Fault Management

Second Review Cycle - 4 June 2026

Capability Area	Capability	Score Claimed	Score Validated	Provided Evidence	TMF (GB1523A) requirements	Questions
				 impact-analysis function calculates customer B2B and CID list of impacted customer .	Option A:The system identifies faults and subsequent impact based on intelligent models without the need for human intervention. Opton B: The system identifies faults and subsequent impact based on intelligent models,but need human intervention.	VALIDATION FINALIZED – second cycle: validated A/A/A/A (Security B). FaultSpirit B2B + CID impacted-customer evidence closes the customer-impact gap.
Analysis	Fault identification & Impact analysis	A/A/A/A/B	A/A/A/A/B			

IOH Response:

ANLAV Report: IOH – RAN Fault Management

Second Review Cycle - 4 June 2026

Capability Area	Capability	Score Claimed	Score Validated	Provided Evidence	TMF (GB1523A) requirements	Questions
Analysis	Demarcation & Locating	A/A/A/A/C	A/A/A/A/C	The agent's fault diagnosis steps and outputs are executed through an intelligent Chain of Thoughts process that is actively supported by alarm correlation and topology restoration.	Option A: The system demarcates and locates faults based on intelligent models without the need for human intervention. Option B: The system demarcates the fault or locates multiple causes based on intelligent models, but the human intervention is required. Note1: The root cause diagnosis and fault locating shall require the ability to locate smallest field replaceable unit, upgradable software modules and connectors so that a repair solution can be quickly determined. e.g, Optical module, fiber optic cable and optical connectors.	VALIDATION FINALIZED – second cycle: validated A/A/A/A (Security C). Intelligent Chain-of-Thoughts diagnosis + alarm correlation/topology reaches smallest FRU; accepted as Option A.

IOH Response:

ANLAV Report: IOH – RAN Fault Management

Second Review Cycle - 4 June 2026

Capability Area	Capability	Score Claimed	Score Validated	Provided Evidence	TMF (GB1523A) requirements	Questions
				Recovery recommendations by Agent and remote recovery actions auto by 	Option A: The system generates one or multiple possible fault recovery or fault rectification solutions based on intelligent model without the need for human intervention. Option B: The system generates multiple possible fault recovery or rectification solutions based on intelligent model but need human intervention. Note1: Fault recovery solutions includes: the executable commands/scripts for the remote faults that can be remotely recovered; or, On-site repair operation instructions for faults that require on-site handling. Note: 2: The examples of the fault recovery solutions can be the remote recovery solution, neighboring cell RF compensation recovery solution.	VALIDATION FINALIZED – second cycle: validated A/A/A/A (Security C).
Analysis	Solution generation	A/A/A/A/C	A/A/A/A/C			

IOH Response:

ANLAV Report: IOH – RAN Fault Management

Second Review Cycle - 4 June 2026

Capability Area	Capability	Score Claimed	Score Validated	Provided Evidence	TMF (GB1523A) requirements	Questions
Decision	Evaluation & Decision making	A/A/A/A/C	A/A/A/A/C	Multiple possible recovery or rectification solutions are based on evaluation pre-checking. Multiple possible recovery or rectification solutions are based on evaluation pre-checking	Option A: The system evaluates multiple possible recovery or rectification solutions and determines the optimal recovery or fault rectification solution based on intelligent models without the need for human intervention. Option B: The system evaluates multiple possible recovery or rectification solutions and determines the optimal recovery or fault rectification solution based on intelligent models, but need human intervention.	VALIDATION FINALIZED – second cycle: validated A/A/A/A (Security C). Multi-candidate priority/ranking with selected-vs-rejected diagnosis branches evidences evaluation and optimal selection; accepted as Option A.

IOH Response:

ANLAV Report: IOH – RAN Fault Management

Second Review Cycle - 4 June 2026

Capability Area	Capability	Score Claimed	Score Validated	Provided Evidence	TMF (GB1523A) requirements	Questions
Execution	Solution implementation	A/A/A/A/C	A/A/A/A/C	Remotely recoverable faults logs were provided with executed command/script, trigger condition, execution timestamp, no need human confirmation, pre-checks, post-checks, alarm-clear verification.	Option A: 1) The system automatically executes the commands/ scripts for the fault that can be remotely recovered. 2) The system support intelligent on-site instruction for the faults that on-site handling is necessary, including support of: - Human leverages natural language to guide Copilot in query optimal troubleshooting checklists. - Human leverages natural language to guide Copilot to automatically verify that the fault is resolved and alarms are cleared, generate the fault repair report (including fill out the trouble ticket record). Option B; Humans use the system to execute instructions. 1) The system executes commands/ scripts for the fault that can be remotely recovered with human confirmation. 2) The on-site handling are assisted by tool, but still requires assistance from NOC..	VALIDATION FINALIZED – second cycle: validated 3 / comp 3.4 (Security C . Remote meets Option A(1); on-site  auto-close supports A(2).assistance; if NOC support is still required, the evidence aligns with Option B rather than Option A

IOH Response:

Thank you

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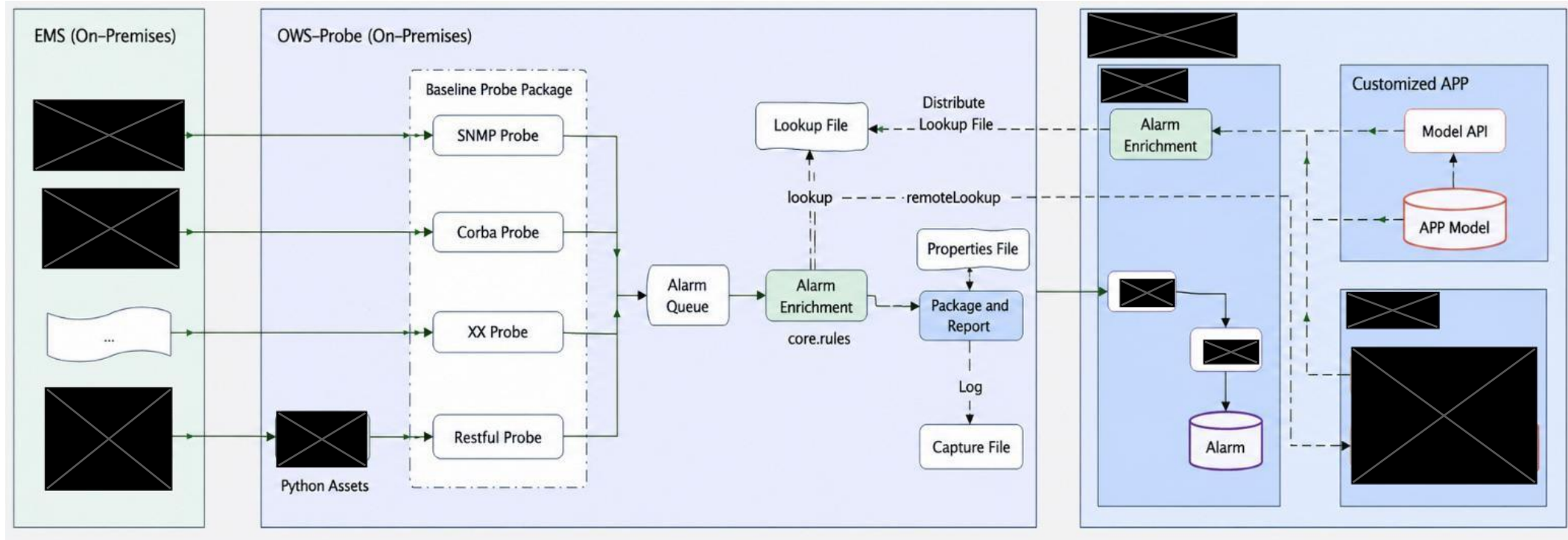
GB1523A RAN Fault Management



Scoring

High-Value Scenario	Cognitive Activity (IAADE)	Service Capability	Weight	Question	Method 1: Average (Official use)																				Capability final score (60%)							
					Criteria				Answer												Equipment (should include but not limit to Digital unit DU fault, RF module RU fault and Other hardware faults)	Processing Error (should include but not limit to Inconsistent configuration,Software license fault)		Communications (should include but not limit to Fronthaul link fault, Backhaul link fault, clock link fault, Antenna link fault)		Environmental (should include but not limit to External power supply failure, External equipment failure)			Security (should include but not limit to Key Expired, Authentication Failure, Unauthorised Access Attempt)			
					Option A	Option B	Option C	Option D	Equipment	Processing Error	Communications	Environmental	Security	Overall score	Weighted score	Overall Score	Overall score	Weighted score	Overall Score	Overall score	Weighted score	Overall Score	Overall score	Weighted score		Overall Score	Overall score	Weighted score				
Wireless Network - Fault Management	Intent	Intent-driven	10%	How does the wireless network fault management system generate fault management task targets, policies and evaluate the implementation effect based on intent? Note: The Fault management intent can be declarative intent (e.g, the proportion of pre-event trouble tickets) or natrual language intent. The examples of fault management policy can be redundancy backup policies.	4	3	2	1	B	B	B	B	B	3	3	3.48	3	2	3.38	3	3	3.48	3	3	3.48	3	3	2.25	3.34			
	Awareness	Data collection & Alarm correlation	10%	How does the wireless network fault management system support automatic data collection & alarm correlation in various fault scenarios?	3	2	1		A	A	A	A	A	3	3.4		3	3.4		3	3.4		3	3.4		3	3					
		Fault Prediction	15%	How does the wireless network fault management system support fault prediction in various fault scenarios? Note: For example, the system predict the bit error rate and link interruption of fronthual and predict the aging and damage of board.	4	3	2	1	C	C	C	C	C	2	2		2	2		2	2		2	2		2	2					
	Analysis	Fault identification & Impact analysis	15%	How does the wireless network fault management system support fault identification & fault impact analysis in various fault scenarios?	4	3	2	1	A	A	A	A	B	4	4		4	4		4	4		4	4		3	3					
		Demarcation & Locating	20%	How does the wireless network fault management system support root cause diagnosis and fault locating in various fault scenarios? Note1: The root cause diagnosis and fault locating shall require the ability to locate smallest field replaceable unit, upgradable software modules and connectors so that a repair solution can be quickly determined. e.g, Optical module, fiber optic cable and optical connectors.	4	3	2	1	A	A	A	A	C	4	4		4	4		4	4		4	4		2	2					
		Solution generation	10%	How does the wireless network fault management system support generation of fault recovery solutions in various scenarios? Note1: Fault recovery solutions includes: the executable commands/ scripts for the remote faults that can be remotely recovered; or, On-site repair operation instructions for faults that require on-site handling. Note: 2: The examples of the fault recovery solutions can be the remote recovery solution, neighboring cell RF compensation recovery solution.	4	3	2	1	A	A	A	A	C	4	4		4	4		4	4		4	4		2	2					
	Decision	Evaluation and decision-making	10%	How does the wireless network fault management system support evaluation and decision-making in various scenarios?	4	3	2	1	A	A	A	A	C	4	4		4	4		4	4		4	4		2	2					
Execution	Solution implementation	10%	How does the wireless network fault management system support automatic execution of: 1) Repair commands/ scripts for the faults that can be remotely recovered; 2) On-site repair instruction for the faults that on-site handling is necessary (such as power supply failure, board fault, fiber cut) to enable the human: - to query the recommended checklists to repair the fault. - to check the fault resolution effect and generate the fault repair report .	3	2	1		A	A	A	A	C	3	3.4	3	3.4	3	3.4	3	3.4	1	1										

IOH RAN Fault Management Framework



Assessment Methodology- GB1523A

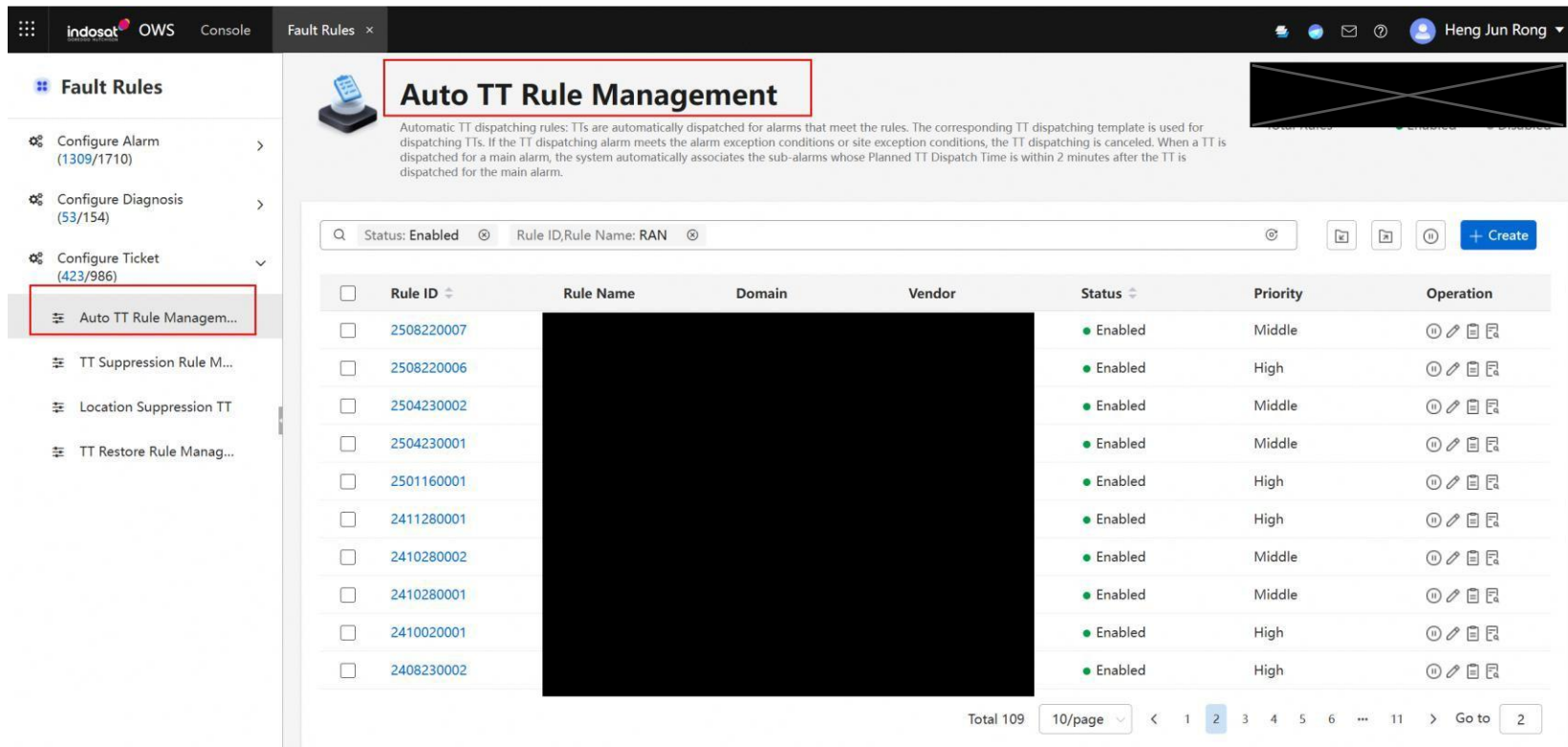
Our answer highlighted in green

High-Value Scenario	Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
RAN - Fault Management	Intent	Intent-driven	10%	How does the wireless network fault management system generate fault management task targets, policies and evaluate the implementation effect based on intent? Note: The Fault management intent can be declarative intent (e.g. the proportion of pre-event trouble tickets) or natural language intent. The examples of fault management policy can be redundancy backup policies.	The system automatically generates fault management task targets and policies based on intent by using intelligent model. Fault management targets and policies need to be manually confirmed. The system automatically evaluates the implementation effect.	The system automatically generates fault management task targets based on predefined rules. Fault management targets and policies need to be manually defined. The effect is manually evaluated after the intent is implemented.	Fault management task targets and policies are manually defined based on expertise. Manually evaluate the effect after the intention is implemented, assisted by tools and system.	Manually set fault management task targets and evaluate the effect.
	Awareness	Data collection & Alarm correlation	10%	How does the wireless network fault management system support automatic data collection & alarm correlation in various fault scenarios?	The system automatically collects data (alarm, configuration, and performance data etc.), and correlates alarms. All data required are automatically collected, no need for additional manually collected data.	The system collects data (alarm, configuration, and performance data etc.), and correlates alarms based on manually defined rules	Manually selects and uses the system to collect data and correlate alarms.	
		Fault Prediction	15%	How does the wireless network fault management system support fault prediction in various fault scenarios? Note: For example, the system predict the bit error rate and link interruption of fronthaul and predict the aging and damage of board.	The system identifies potential risks and predicts the fault occurrence time based on intelligent models without the need for human intervention.	The system identifies potential risks based on intelligent models, but cannot predict the fault occurrence time.	The system identifies potential risks based on manually defined rules. For example, the system can identify potential risks of fronthaul optical modules based on preset optical power thresholds.	Potential risks need to be manually identified based on expertise.
	Analysis	Fault identification & Impact analysis	15%	How does the wireless network fault management system support fault identification & fault impact analysis in various fault scenarios?	The system identifies faults and subsequent impact based on intelligent models without the need for human intervention.	The system identifies faults and subsequent impact based on intelligent models, but need human intervention.	The system identifies faults and subsequent impact based on manually defined rules, for example, identifying intermittent faults based on a frequency experience threshold and aggregating periodic alarms based on a period threshold.	Faults and impact need to be manually identified based on human expertise or through the execution of manual written procedures.
		Demarcation & Locating	20%	How does the wireless network fault management system support root cause diagnosis and fault locating in various fault scenarios? Note1: The root cause diagnosis and fault locating shall require the ability to locate smallest field replaceable unit, upgradable software modules and connectors so that a repair solution can be quickly determined. e.g, Optical module, fiber optic cable and optical connectors.	The system demarcates and locates faults based on intelligent models without the need for human intervention.	The system demarcates the fault or locates multiple causes based on intelligent models, but the human intervention is required.	The system demarcates and locates faults based on manually defined rules (such as experience-based fault trees and troubleshooting processes) and needs human intervention.	Fault diagnosis needs to be manually performed based on expertise.
		Solution generation	10%	How does the wireless network fault management system support generation of fault recovery solutions in various scenarios? Note1: Fault recovery solutions includes: the executable commands/ scripts for the remote faults that can be remotely recovered; or, On-site repair operation instructions for faults that require on-site handling. Note: 2: The examples of the fault recovery solutions can be the remote recovery solution, neighboring cell RF compensation recovery solution.	The system generates one or multiple possible fault recovery or fault rectification solutions based on intelligent model without the need for human intervention.	The system generates multiple possible fault recovery or rectification solutions based on intelligent model, but need human intervention.	The system generates one or multiple possible fault recovery or rectification solutions based on manually defined rules and need human intervention.	Fault recovery or rectification solutions needs to be manually generated based on expertise.
	Decision	Evaluation and decision-making	10%	How does the wireless network fault management system support evaluation and decision-making in various scenarios?	The system evaluates multiple possible recovery or rectification solutions and determines the optimal recovery or fault rectification solution based on intelligent models without the need for human intervention.	The system evaluates multiple possible recovery or rectification solutions and determines the optimal recovery or fault rectification solution based on intelligent models, but need human intervention.	The system evaluate and decide the fault recovery or fault rectification solution based on manually defined rules and need human intervention.	The fault recovery or fault rectification solution is manually evaluated and decided.
	Execution	Solution implementation	10%	How does the wireless network fault management system support automatic execution of: 1) Repair commands/ scripts for the faults that can be remotely recovered; 2) On-site repair instruction for the faults that on-site handling is necessary (such as power supply failure, board fault, fiber cut) to enable the human: - to query the recommended checklists to repair the fault. - to check the fault resolution effect and generate the fault repair report .	1) The system automatically executes the commands/ scripts for the fault that can be remotely recovered. 2) The system support intelligent on-site instruction for the faults that on-site handling is necessary, including support of: - Human leverages natural language to guide Copilot in query optimal troubleshooting checklists. - Human leverages natural language to guide Copilot to automatically verify that the fault is resolved and alarms are cleared, generate the fault repair report (including fill out the trouble ticket record).	Humans use the system to execute instructions. 1) The system executes commands/ scripts for the fault that can be remotely recovered with human confirmation. 2) The on-site handling are assisted by tool, but still requires assistance from NOC.	The recovery solution needs to be manually implemented 1) The recovery solution need to be manually implemented. 2) On-site handling is guided by NOC.	

Intent-driven

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Intent	Intent-driven	10%	How does the wireless network fault management system generate fault management task targets, policies and evaluate the implementation effect based on intent? Note: The Fault management intent can be declarative intent (e.g, the proportion of pre-event trouble tickets) or natural language intent. The examples of fault management policy can be redundancy backup policies.	The system automatically generates fault management task targets and policies based on intent by using intelligent model. Fault management targets and policies need to be manually confirmed. The system automatically evaluates the implementation effect.	The system automatically generates fault management task targets based on predefined rules. Fault management targets and policies need to be manually defined. The effect is manually evaluated after the intent is implemented.	Fault management task targets and policies are manually defined based on expertise. Manually evaluate the effect after the intention is implemented, by tools and system.	Manually set fault management task targets and evaluate the effect.

BO set the predefined rules, system automatically generates fault management task targets based on it



Auto TT Rule Management

Automatic TT dispatching rules: TTs are automatically dispatched for alarms that meet the rules. The corresponding TT dispatching template is used for dispatching TTs. If the TT dispatching alarm meets the alarm exception conditions or site exception conditions, the TT dispatching is canceled. When a TT is dispatched for a main alarm, the system automatically associates the sub-alarms whose Planned TT Dispatch Time is within 2 minutes after the TT is dispatched for the main alarm.

Search: Status: Enabled Rule ID, Rule Name: RAN

Rule ID	Rule Name	Domain	Vendor	Status	Priority	Operation
2508220007				Enabled	Middle	
2508220006				Enabled	High	
2504230002				Enabled	Middle	
2504230001				Enabled	Middle	
2501160001				Enabled	High	
2411280001				Enabled	High	
2410280002				Enabled	Middle	
2410280001				Enabled	Middle	
2410020001				Enabled	High	
2408230002				Enabled	High	

Total 109 10/page 1 2 3 4 5 6 ... 11 Go to 2

Intent-driven – Equipment

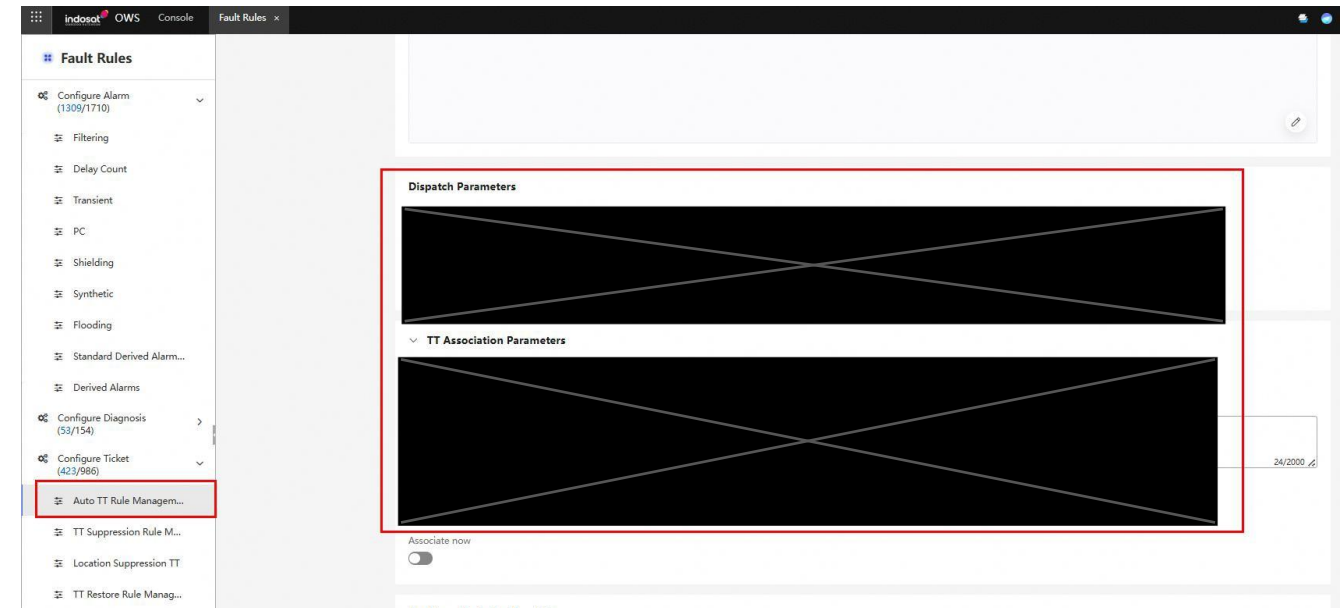
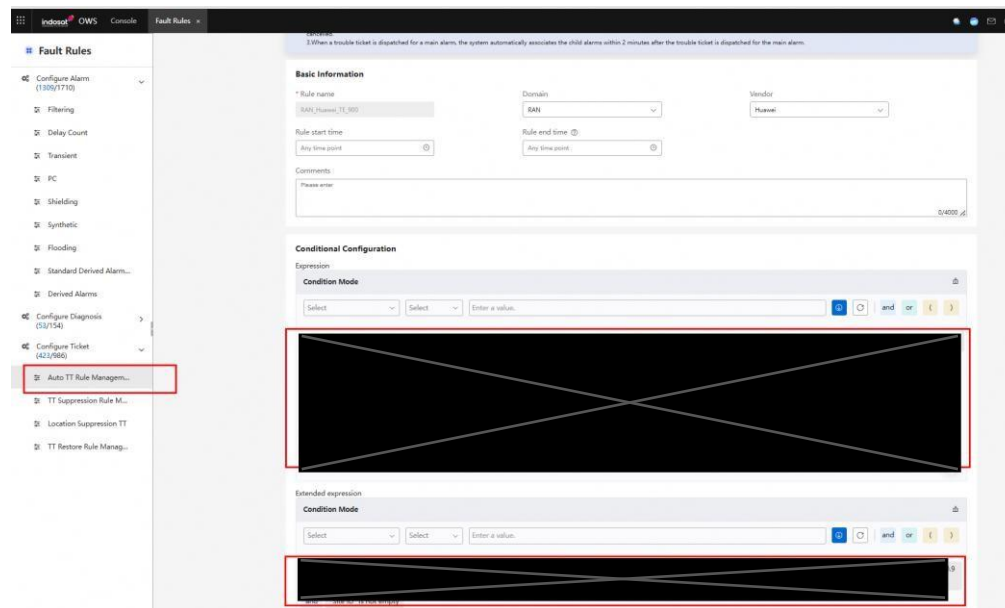
Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Intent	Intent-driven	10%	How does the wireless network fault management system generate fault management task targets, policies and evaluate the implementation effect based on intent? Note: The Fault management intent can be declarative intent (e.g, the proportion of pre-event trouble tickets) or natural language intent. The examples of fault management policy can be redundancy backup policies.	The system automatically generates fault management task targets and policies based on intent by using intelligent model. Fault management targets and policies need to be manually confirmed. The system automatically evaluates the implementation effect.	The system automatically generates fault management task targets based on predefined rules. Fault management targets and policies need to be manually defined. The effect is manually evaluated after the intent is implemented.	Fault management task targets and policies are manually defined based on expertise. Manually evaluate the effect after the intention is implemented, by tools and system.	Manually set fault management task targets and evaluate the effect.

Vendor	Alarm ID	Alarm Name	NE (2G,4G,5G, SRAN, BSC)	TM Type	Alarm Count 11 Apr 2026	Alarm Count 12 Apr 2026
Huawei	26752ALD	Hardware Fault	SRAN	Equipment		
Huawei	26541ALD	Maintenance Link Failure	SRAN	Equipment		
Huawei	26205BBU	Board Maintenance Link Failure	SRAN	Equipment		
Huawei	26234BBU	CPRI Interface Error	SRAN	Equipment		
Huawei	26230BBU	CPRI Optical Module Fault	SRAN	Equipment		
Huawei	26231BBU	CPRI Optical Module or Electrical Port Not Ready	SRAN	Equipment		
Huawei	26110BBU	Fan Stalled	SRAN	Equipment		
Huawei	26106Board	Clock Input Unavailable	SRAN	Equipment		
Huawei	26200Board	Hardware Fault	SRAN	Equipment		
Huawei	26204Board	Not In Position	SRAN	Equipment		
Huawei	26216Board	Not Securely Installed	SRAN	Equipment		
Huawei	26214Board	Powered Off	SRAN	Equipment		
Huawei	29250Cell	RX Channel Interference Noise Power Unbalanced	4G	Equipment		
Huawei	25880Ethernet	Link Fault	SRAN	Equipment		
Huawei	25673Fan	Stalled	SRAN	Equipment		
Huawei	26101Inter-Board	CANBUS Communication Failure	SRAN	Equipment		
Huawei	26215Inter-Board	Service Link Failure	SRAN	Equipment		
Huawei	25601Monitoring	Device Hardware Fault	SRAN	Equipment		
Huawei	25600Monitoring	Device Maintenance Link Failure	SRAN	Equipment		
Huawei	20704OMU	Data Synchronization Failure	BSC	Equipment		
Huawei	25901Remote	Maintenance Link Failure	SRAN	Equipment		
Huawei	26530RF	Unit ALD Current Out of Range	SRAN	Equipment		
Huawei	28018RF	Unit Baseband Running Error	2G	Equipment		
Huawei	26538RF	Unit Clock Problem	SRAN	Equipment		
Huawei	26504RF	Unit CPRI Interface Error	SRAN	Equipment		
Huawei	26532RF	Unit Hardware Fault	SRAN	Equipment		
Huawei	26235RF	Unit Maintenance Link Failure	SRAN	Equipment		
Huawei	26563RF	Unit Runtime Topology Error	SRAN	Equipment		
Huawei	26521RF	Unit RX Channel RTWP/RSSI Too Low	SRAN	Equipment		
Huawei	26522RF	Unit RX Channel RTWP/RSSI Unbalanced	SRAN	Equipment		
Huawei	26533RF	Unit Software Program Error	SRAN	Equipment		
Huawei	26520RF	Unit TX Channel Gain Out of Range	SRAN	Equipment		
Huawei	26529RF	Unit VSWR Threshold Crossed	SRAN	Equipment		
Huawei	29356RRN	Unavailable	4G	Equipment		
Huawei	26222Transmission	Optical Interface Error	SRAN	Equipment		
Huawei	26529VSWR	Over Threshold	SRAN	Equipment		
Huawei	26521RF	Unit RX Channel RTWP/RSSI Too High	SRAN	Equipment		
Huawei	26521RF	Unit RX Channel RTWP/RSSI Too Low	5G	Equipment		
Huawei	26522RF	Unit RX Channel RTWP/RSSI Unbalanced	5G	Equipment		
Huawei	26521RF	Unit RX Channel RTWP/RSSI Too High	5G	Equipment		
Huawei	26521RF	Unit RX Channel RTWP/RSSI Too Low	4G	Equipment		
Huawei	26522RF	Unit RX Channel RTWP/RSSI Unbalanced	4G	Equipment		
Huawei	26521RF	Unit RX Channel RTWP/RSSI Too High	4G	Equipment		

The RAN Fault Management, the BO output the ZLD policy, and OWS put the policy in Fault Rule (Auto Ticketing)

Intent-driven – Equipment

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Intent	Intent-driven	10%	How does the wireless network fault management system generate fault management task targets, policies and evaluate the implementation effect based on intent? Note: The Fault management intent can be declarative intent (e.g, the proportion of pre-event trouble tickets) or natural language intent. The examples of fault management policy can be redundancy backup policies.	The system automatically generates fault management task targets and policies based on intent by using intelligent model. Fault management targets and policies need to be manually confirmed. The system automatically evaluates the implementation effect.	The system automatically generates fault management task targets based on predefined rules. Fault management targets and policies need to be manually defined. The effect is manually evaluated after the intent is implemented.	Fault management task targets and policies are manually defined based on expertise. Manually evaluate the effect after the intention is implemented, by tools and system.	Manually set fault management task targets and evaluate the effect.



The RAN Fault Management, the BO output the ZLD policy, and OWS put the policy in Fault Rule (Auto Ticketing)



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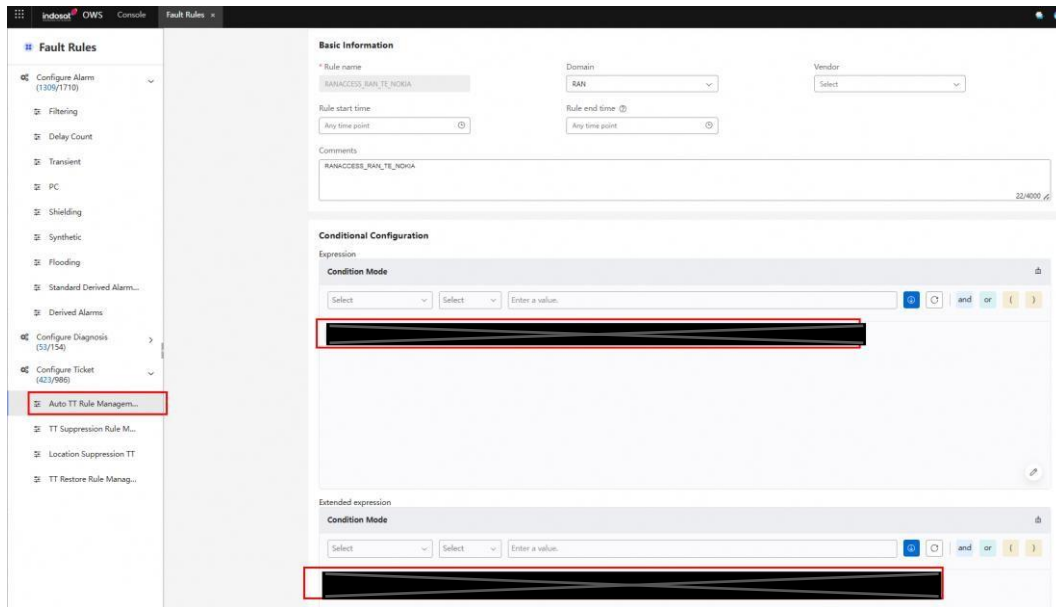
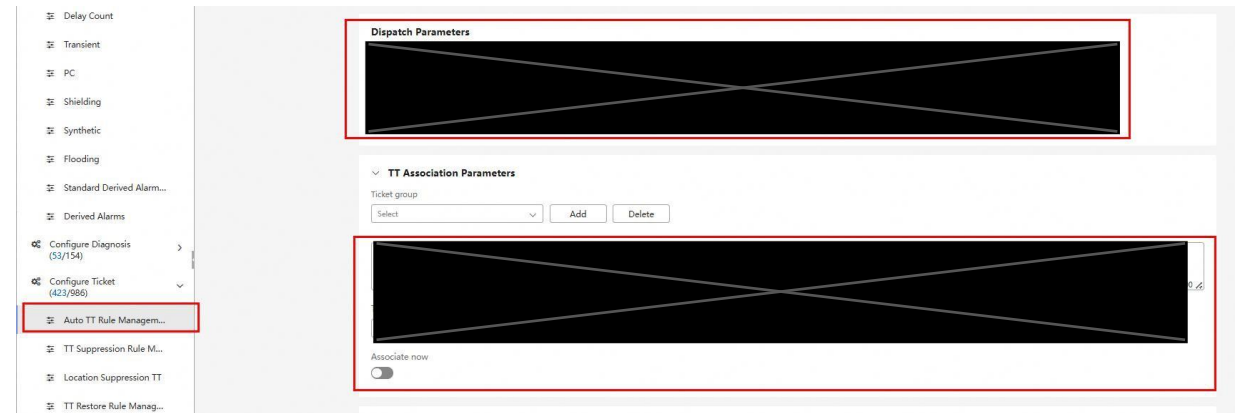
Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Intent	Intent-driven	10%	How does the wireless network fault management system generate fault management task targets, policies and evaluate the implementation effect based on intent? Note: The Fault management intent can be declarative intent (e.g, the proportion of pre-event trouble tickets) or natrual language intent. The examples of fault management policy can be redundancy backup policies.	The system automatically generates fault management task targets and policies based on intent by using intelligent model. Fault management targets and policies need to be manually confirmed. The system automatically evaluates the implementation effect.	The system automatically generates fault management task targets based on predefined rules. Fault management targets and policies need to be manually defined. The effect is manually evaluated after the intent is implemented.	Fault management task targets and policies are manually defined based on expertise. Manually evaluate the effect after the intention is implemented, assisted by tools and system.	Manually set fault management task targets and evaluate the effect.

Vendor	Alarm ID	Alarm Name	NE (2G,4G,5G, SRAN, BSC)	TM Type
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	SRAN	Processing Error
Nokia	7116	BASE STATION SERVICE PROBLEM	SRAN	Processing Error
Nokia	7116	BASE STATION SERVICE PROBLEM	SRAN	Processing Error
Huawei	26250	Active Workspace Version Unavailable	SRAN	Processing Error
Huawei	21391	ARP Conflict	BSC	Processing Error
Huawei	26255	Automatic Version Rollback	SRAN	Processing Error
Huawei	21386	Backup Channel Faulty	BSC	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	SRAN	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	SRAN	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	SRAN	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	SRAN	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	2G	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	SRAN	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	2G	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	SRAN	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	2G	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	SRAN	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	SRAN	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	SRAN	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	2G	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	SRAN	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	SRAN	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	SRAN	Processing Error
Nokia	7112	BASE STATION CONFIGURATION PROBLEM	2G	Processing Error
Nokia	7115	BASE STATION INFORMATION	SRAN	Processing Error
Nokia	7115	BASE STATION INFORMATION	SRAN	Processing Error
Nokia	7115	BASE STATION INFORMATION	SRAN	Processing Error
Nokia	7115	BASE STATION INFORMATION	SRAN	Processing Error
Nokia	7115	BASE STATION INFORMATION	SRAN	Processing Error
Nokia	7116	BASE STATION SERVICE PROBLEM	SRAN	Processing Error
Nokia	7116	BASE STATION SERVICE PROBLEM	4G	Processing Error
Nokia	7116	BASE STATION SERVICE PROBLEM	SRAN	Processing Error
Nokia	7116	BASE STATION SERVICE PROBLEM	2G	Processing Error
Nokia	7116	BASE STATION SERVICE PROBLEM	4G	Processing Error
Nokia	7116	BASE STATION SERVICE PROBLEM	SRAN	Processing Error
Nokia	7116	BASE STATION SERVICE PROBLEM	SRAN	Processing Error
Nokia	7116	BASE STATION SERVICE PROBLEM	SRAN	Processing Error
Huawei	26240	BBU Topology and Configuration Mismatch	SRAN	Processing Error
Huawei	25899	3FD Session Fault	SRAN	Processing Error
Huawei	26210	Board Blocked	SRAN	Processing Error
Huawei	26254	Board Software Synchronization Failure	SRAN	Processing Error
Huawei	26251	Board Type and Configuration Mismatch	SRAN	Processing Error
Huawei	25957	Broadcast Packets Exceeding Alarm	SRAN	Processing Error
Huawei	21814	BSS Internal Voice Channel Abnormal	BSC	Processing Error
Huawei	26293	Cabinet Capability Mismatch	SRAN	Processing Error
Huawei	28010	Carrier Configuration Error	2G	Processing Error

Vendor	Alarm ID	Alarm Name	NE (2G, 4G, 5G, SRAN, BSC)	TM Type
Huawei	25719	CCU Topology and Configuration Mismatch	SRAN	Processing Error
Huawei	20271	Communication Congestion Between Subracks	BSC	Processing Error
Huawei	26243	Configuration Data Inconsistency	SRAN	Processing Error
Huawei	26247	Configuration Failure	SRAN	Processing Error
Huawei	20734	Data Inconsistency Between OMU and Host	BSC	Processing Error
Huawei	25730	Device Object Configuration Conflict	SRAN	Processing Error
Huawei	21813	Dual-Hosted BTS Configuration Error	2G	Processing Error
Huawei	21400	Ethernet Port Bandwidth Mismatch	BSC	Processing Error
Huawei	20273	Forwarding Overload of An Interface Board	BSC	Processing Error
Huawei	29848	gNodeB Logical RF Site Out of Service	5G	Processing Error
Huawei	20703	Inconsistent Software Versions Between Active and Standby OMUs	BSC	Processing Error
Huawei	21404	Insufficient Transmission Resources	BSC	Processing Error
Huawei	26273	Inter-System BBU Board Parameter Settings Conflict	SRAN	Processing Error
Huawei	26279	Inter-System Board Installation and Configuration Mismatch	SRAN	Processing Error
Huawei	26274	Inter-System Board Object Configuration Conflict	SRAN	Processing Error
Huawei	26273	Inter-System Cabinet Configuration Conflict	SRAN	Processing Error
Huawei	26277	Inter-System Control Rights Conflict	SRAN	Processing Error
Huawei	26912	Inter-System CXU Parameter Settings Conflict	SRAN	Processing Error
Huawei	26271	Inter-System Monitoring Device Parameter Settings Conflict	SRAN	Processing Error
Huawei	26274	Inter-System RF Unit Parameter Settings Conflict	SRAN	Processing Error
Huawei	26280	Inter-System RRU Chain Parameter Settings Conflict	SRAN	Processing Error
Huawei	26276	Inter-System Site-Level Configuration Conflict	SRAN	Processing Error
Huawei	25883	IP Address Conflict	SRAN	Processing Error
Huawei	21348	IP Connectivity Check Failure	BSC	Processing Error
Huawei	25904	IP Link Performance Measurement Fault	SRAN	Processing Error
Huawei	21587	IP Logical Port Congestion	BSC	Processing Error
Huawei	25900	IP PM Activation Failure	SRAN	Processing Error
Huawei	21394	IP PM Capability Exceeded	BSC	Processing Error
Huawei	25894	IP Remote Loopback	SRAN	Processing Error
Huawei	21401	IP Route Configuration Inconsistency	BSC	Processing Error
Huawei	25947	Pv6 Address Conflict	SRAN	Processing Error
Huawei	20734	License Inconsistency Between OMU and Host	BSC	Processing Error
Huawei	20731	OMU Configuration Board and Subrack Board Inconsistency	BSC	Processing Error
Huawei	20721	OMU IP Address Configuration Error	BSC	Processing Error
Huawei	20709	OMU IP Address Conflict	BSC	Processing Error
Huawei	20711	OMU Operating System Service Status Abnormality	BSC	Processing Error
Huawei	20707	OMU Process Abort	BSC	Processing Error
Huawei	20802	POUC Board TRX Exceed Limit	BSC	Processing Error
Huawei	26402	RAT Conflict between separate-MPT Boards	SRAN	Processing Error
Huawei	25902	Remote Maintenance Link Running Data and Configuration Mismatch	SRAN	Processing Error
Huawei	26543	RF Unit TX Channel Switched Off Through Command	SRAN	Processing Error
Huawei	26278	RF Unit Working Mode and Board Capability Mismatch	SRAN	Processing Error
Huawei	29351	RRN Board Overload	4G	Processing Error
Huawei	29358	RRN Device Type and Configuration Mismatch	4G	Processing Error
Huawei	29354	RRN Version Abnormal	4G	Processing Error
Huawei	26234	RRU Cascading Levels and Configuration Mismatch	SRAN	Processing Error
Huawei	26238	RRU Network Topology Type and Configuration Mismatch	SRAN	Processing Error
Huawei	20733	Software Version Inconsistency Between OMU and Host	BSC	Processing Error
Huawei	26401	Subrack Type and Configuration Mismatch	SRAN	Processing Error
Huawei	26264	Time Synchronization Failure	SRAN	Processing Error
Huawei	26758	IMA Running Data and Configuration Mismatch	SRAN	Processing Error
Huawei	20722	VLAN ID Inconsistency on Active and Standby OMU Boards	BSC	Processing Error
Huawei	21348	Working Attributes of Load Sharing Ports Inconsistent	BSC	Processing Error

Intent-driven – Processing Error

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Intent	Intent-driven	10%	How does the wireless network fault management system generate fault management task targets, policies and evaluate the implementation effect based on intent? Note: The Fault management intent can be declarative intent (e.g, the proportion of pre-event trouble tickets) or natrual language intent. The examples of fault management policy can be redundancy backup policies.	The system automatically generates fault management task targets and policies based on intent by using intelligent model. Fault management targets and policies need to be manually confirmed. The system automatically evaluates the implementation effect.	The system automatically generates fault management task targets based on predefined rules. Fault management targets and policies need to be manually defined. The effect is manually evaluated after the intent is implemented.	Fault management task targets and policies are manually defined based on expertise. Manually evaluate the effect after the intention is implemented, by tools and system.	Manually set fault management task targets and evaluate the effect.

The RAN Fault Management, the BO output the ZLD policy, and OWS put the policy in Fault Rule (Auto Ticketing)

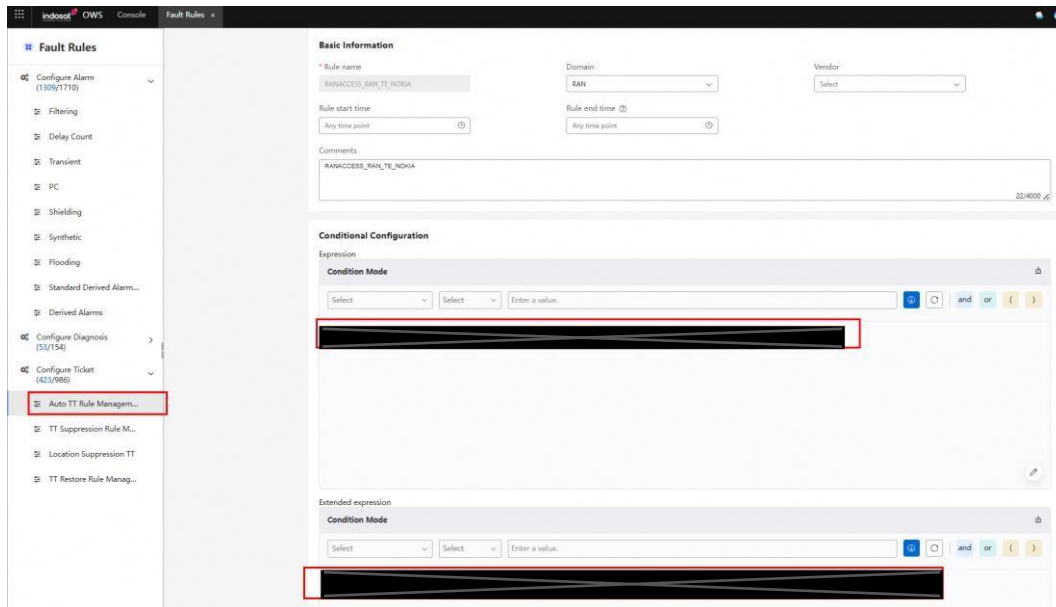
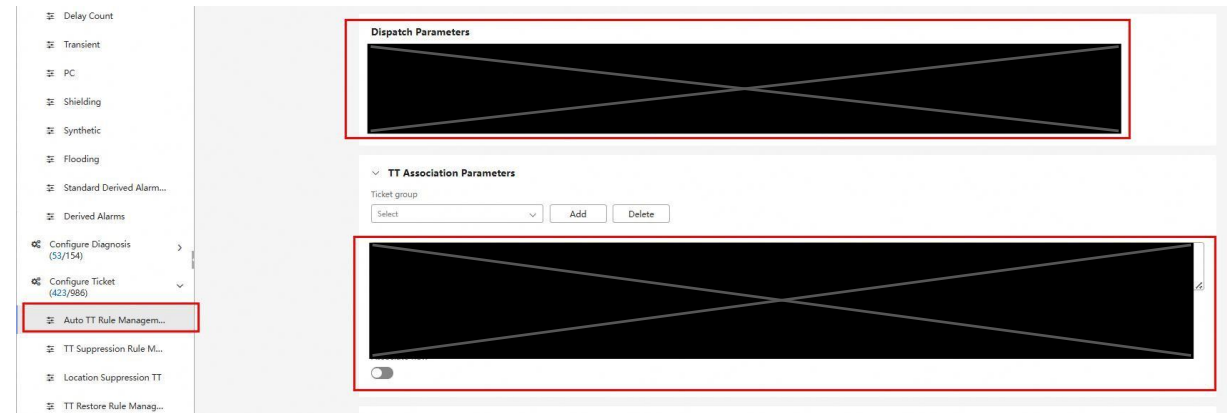
Intent-driven – Communications

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Intent	Intent-driven	10%	How does the wireless network fault management system generate fault management task targets, policies and evaluate the implementation effect based on intent? Note: The Fault management intent can be declarative intent (e.g, the proportion of pre-event trouble tickets) or natural language intent. The examples of fault management policy can be redundancy backup policies.	The system automatically generates fault management task targets and policies based on intent by using intelligent model. Fault management targets and policies need to be manually confirmed. The system automatically evaluates the implementation effect.	The system automatically generates fault management task targets based on predefined rules. Fault management targets and policies need to be manually defined. The effect is manually evaluated after the intent is implemented.	Fault management task targets and policies are manually defined based on expertise. Manually evaluate the effect after the intention is implemented, assisted by tools and system.	Manually set fault management task targets and evaluate the effect.

Vendor	Alarm ID	Alarm Name	NE (2G,4G,5G, SRAN, BSC)	TM Type
Nokia	69001	RTWP antenna line too high	4G	Communication
Nokia	69000	RTWP antenna line too low	4G	Communication
Nokia	69001	Unbalance RTWP antenna lines	4G	Communication
Nokia	7113	BASE STATION ANTENNA LINE PROBLEM	SRAN	Communication
Nokia	7113	BASE STATION ANTENNA LINE PROBLEM	4G	Communication
Huawei	26261	External Clock Reference Not Configured	SRAN	Communication
Huawei	26262	External Clock Reference Problem	SRAN	Communication
Huawei	25740	GDU Antenna Fault	SRAN	Communication
Huawei	26125	GNSS Antenna Fault	SRAN	Communication
Huawei	26124	GNSS Clock Output Unavailable	SRAN	Communication
Huawei	26126	GNSS Locked Satellites Insufficient	SRAN	Communication
Huawei	26127	GNSS Maintenance Link Failure	SRAN	Communication
Huawei	26125	GNSS Antenna Fault	SRAN	Communication
Huawei	20252	GPS Card Antenna Abnormal	BSC	Communication
Huawei	20253	GPS Card Status Abnormal	BSC	Communication
Huawei	26122	GPS Locked Satellites Insufficient	SRAN	Communication
Huawei	26123	GPS Maintenance Link Failure	SRAN	Communication
Huawei	26263	IP Clock Link Failure	SRAN	Communication
Huawei	26754	RET Antenna Data Loss	SRAN	Communication
Huawei	26751	RET Antenna Motor Fault	SRAN	Communication
Huawei	26753	RET Antenna Not Calibrated	SRAN	Communication
Huawei	26757	RET Antenna Running Data and Configuration Mismatch	SRAN	Communication
Huawei	26562	RF Unit and RET Antenna Connection Failure	SRAN	Communication
Nokia	69001	RTWP antenna line too high	SRAN	Communication
Nokia	69000	RTWP antenna line too low	SRAN	Communication
Nokia	69001	Unbalance RTWP antenna lines	SRAN	Communication
Nokia	69001	RTWP antenna line too high	5G	Communication
Nokia	69000	RTWP antenna line too low	5G	Communication
Nokia	69001	Unbalance RTWP antenna lines	5G	Communication

Intent-driven – Communications

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Intent	Intent-driven	10%	How does the wireless network fault management system generate fault management task targets, policies and evaluate the implementation effect based on intent? Note: The Fault management intent can be declarative intent (e.g, the proportion of pre-event trouble tickets) or natrual language intent. The examples of fault management policy can be redundancy backup policies.	The system automatically generates fault management task targets and policies based on intent by using intelligent model. Fault management targets and policies need to be manually confirmed. The system automatically evaluates the implementation effect.	The system automatically generates fault management task targets based on predefined rules. Fault management targets and policies need to be manually defined. The effect is manually evaluated after the intent is implemented.	Fault management task targets and policies are manually defined based on expertise. Manually evaluate the effect after the intention is implemented, by tools and system.	Manually set fault management task targets and evaluate the effect.

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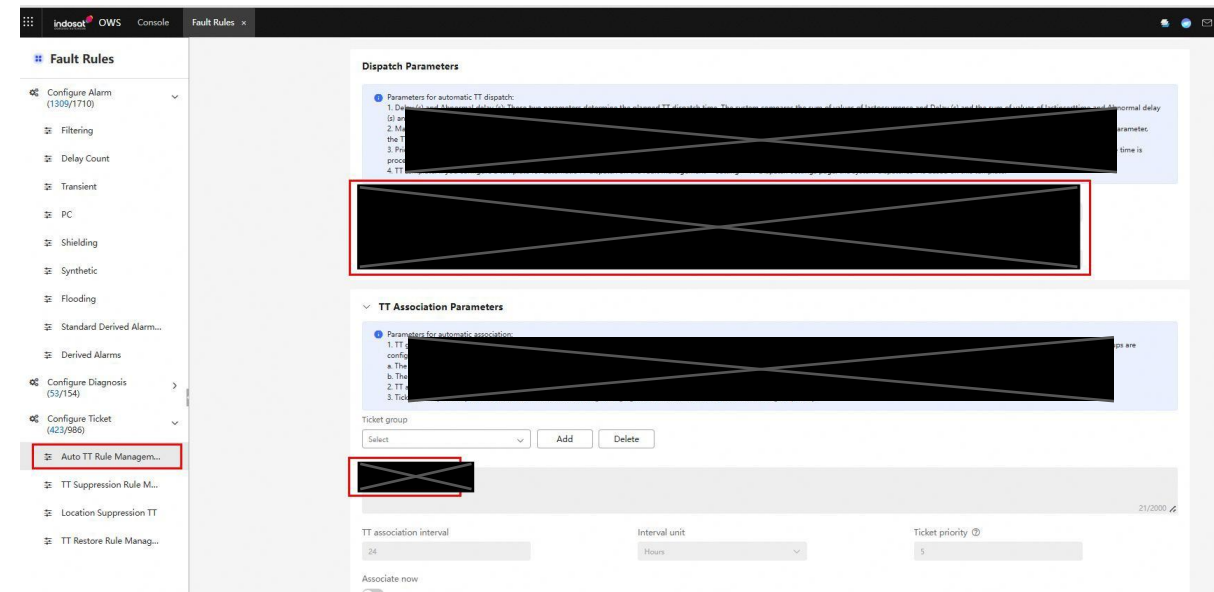
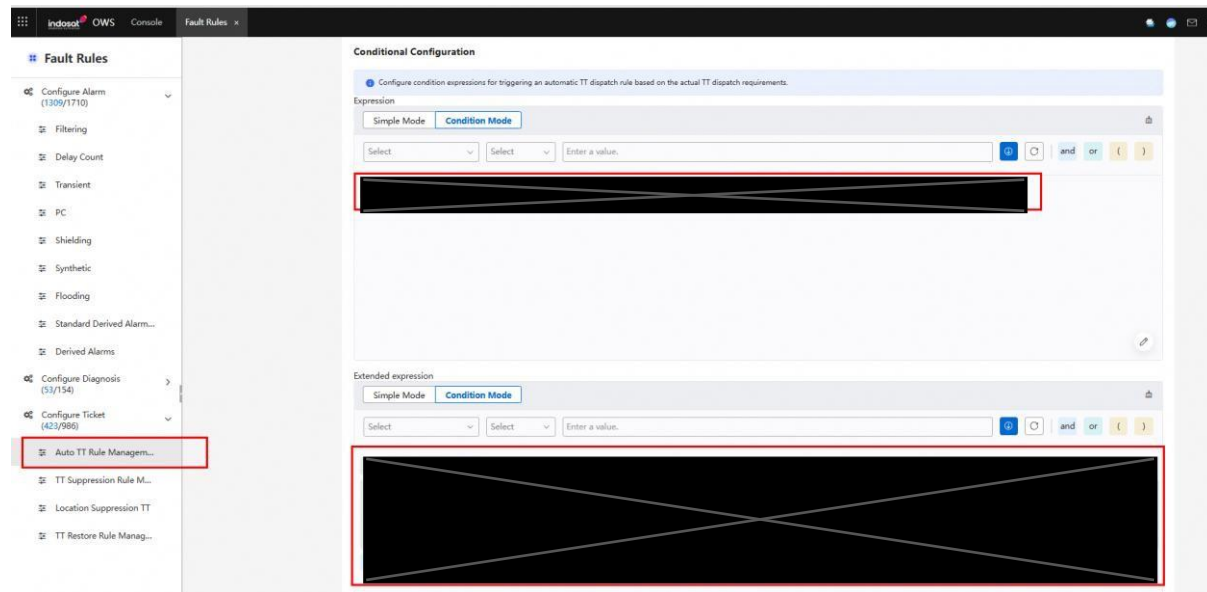
Intent-driven – Environmental

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Intent	Intent-driven	10%	How does the wireless network fault management system generate fault management task targets, policies and evaluate the implementation effect based on intent? Note: The Fault management intent can be declarative intent (e.g, the proportion of pre-event trouble tickets) or natural language intent. The examples of fault management policy can be redundancy backup policies.	The system automatically generates fault management task targets and policies based on intent by using intelligent model. Fault management targets and policies need to be manually confirmed. The system automatically evaluates the implementation effect.	The system automatically generates fault management task targets based on predefined rules. Fault management targets and policies need to be manually defined. The effect is manually evaluated after the intent is implemented.	Fault management task targets and policies are manually defined based on expertise. Manually evaluate the effect after the intention is implemented, assisted by tools and system.	Manually set fault management task targets and evaluate the effect.

Vendor	Alarm ID	Alarm Name	NE (2G,4G,5G, SRAN, BSC)	TM Type	Vendor	Alarm ID	Alarm Name	NE (2G,4G,5G, SRAN, BSC)	TM Type
Huawei	20051	Abnormal PowerInput for a Subrack	BSC	Environment	Huawei	20052	PEM Circuit Breaker Turned Off Alarm	BSC	Environment
Huawei	25628	AC Surge ProtectorFault	SRAN	Environment	Huawei	20053	PEM Fault Alarm	BSC	Environment
Huawei	20046	Ambient Humidity Abnormal	BSC	Environment	Huawei	20058	PEM Type Conflict Alarm	BSC	Environment
Huawei	25651	Ambient Humidity Unacceptable	SRAN	Environment	Huawei	25633	PMU Internal Interface Communication Failure	SRAN	Environment
Huawei	20045	Ambient Temperature Abnormal	BSC	Environment	Nokia	2051	POWER FAILURE IN SWITCHING NETWORK	BSC	Environment
Huawei	26113	Base Station DC PowerSupply Abnormal	SRAN	Environment	Huawei	20044	Power Input to Monitoring Device Abnormal	BSC	Environment
Nokia	7116	BASE STATION SERVICE PROBLEM	SRAN	Environment	Huawei	25626	Power Module Abnormal	SRAN	Environment
Huawei	25625	Battery Current Out of Range	SRAN	Environment	Huawei	25630	Power Module and Monitoring Module Communication Failure	SRAN	Environment
Huawei	25635	Battery Failure	SRAN	Environment	Nokia	2758	POWER SUPPLY ADAPTER FAILURE	BSC	Environment
Huawei	25634	Battery Not In Position	SRAN	Environment	Huawei	25621	PowerSupply DC Output Out of Range	SRAN	Environment
Huawei	25624	Battery Power Unavailable	SRAN	Environment	Huawei	26790	PowerSupply Failure	SRAN	Environment
Huawei	25654	Battery Temperature Unacceptable	SRAN	Environment	Nokia	3434	POWER SUPPLY FAILURE	BSC	Environment
Huawei	26112	BBU DC Output Out of Range	SRAN	Environment	Nokia	2347	POWER SUPPLY FAILURE IN CPU	BSC	Environment
Huawei	20280	Board Temperature Abnormal	BSC	Environment	Nokia	2759	POWER SUPPLY FUSE FAILURE	BSC	Environment
Huawei	20251	Board Temperature too High	BSC	Environment	Huawei	26113	PSE ASIC PowerSupply Problem	SRAN	Environment
Huawei	26104	Board Temperature Unacceptable	SRAN	Environment	Huawei	26540	RF Unit AC Input PowerFailure	SRAN	Environment
Huawei	25672	Burglar Alarm	SRAN	Environment	Huawei	26564	RF Unit DC Input PowerFailure	SRAN	Environment
Huawei	25656	Cabinet Air Inlet Temperature Unacceptable	SRAN	Environment	Huawei	26546	RF Unit External PowerSupply Insufficient	SRAN	Environment
Huawei	25655	Cabinet Air Outlet Temperature Unacceptable	SRAN	Environment	Huawei	26527	RF Unit Input Power Out of Range	SRAN	Environment
Huawei	20037	Cabinet Door Open	BSC	Environment	Huawei	26566	RF Unit Optical Module Temperature Unacceptable	SRAN	Environment
Huawei	25653	Cabinet Humidity Unacceptable	SRAN	Environment	Huawei	26534	RF Unit Overload	SRAN	Environment
Huawei	20057	Cabinet PowerOver Alarm	BSC	Environment	Huawei	26524	RF Unit PA Overcurrent	SRAN	Environment
Huawei	25652	Cabinet Temperature Unacceptable	SRAN	Environment	Huawei	26569	RF Unit PowerConnectorAbnormal	SRAN	Environment
Nokia	3829	CPU BLADE TEMPERATURE EXCEEDS THE LIMIT	BSC	Environment	Huawei	26568	RF Unit PowerSupply Abnormal	SRAN	Environment
Nokia	3430	CRITICAL TEMPERATURE LEVEL REACHED	BSC	Environment	Huawei	26544	RF Unit PowerSurge ProtectorFault	SRAN	Environment
Huawei	26919	CXU AC PowerInput Failure	SRAN	Environment	Huawei	26525	RF Unit Temperature Unacceptable	SRAN	Environment
Huawei	26916	CXU DC PowerInput Failure	SRAN	Environment	Huawei	26774	RHUB AC/DC Maintenance Link Failure	SRAN	Environment
Huawei	26914	CXU External PowerSupply Insufficient	SRAN	Environment	Huawei	26791	RHUB Optical Module Temperature Unacceptable	SRAN	Environment
Huawei	26917	CXU Optical Module Temperature Unacceptable	SRAN	Environment	Huawei	26776	RHUB PSE PowerSupply Failure	SRAN	Environment
Huawei	26907	CXU Temperature Unacceptable	SRAN	Environment	Huawei	26771	RHUB Temperature Unacceptable	SRAN	Environment
Huawei	26564	DC Low Voltage	SRAN	Environment	Huawei	26789	RHUB Unit AC Input PowerFailure	SRAN	Environment
Huawei	20054	Fan Box Temperature Abnormal Alarm	BSC	Environment	Huawei	29350	RRN Temperature Unacceptable	4G	Environment
Nokia	2754	FUSE FAILURE	BSC	Environment	Huawei	20047	Smoke	BSC	Environment
Huawei	25623	Load Disconnect	SRAN	Environment	Huawei	25671	Smoke Alarm	SRAN	Environment
Huawei	25631	Load Fuse Broken	SRAN	Environment	Huawei	25657	TEC CoolerFault	SRAN	Environment
Huawei	65133	Mains Failure	SRAN	Environment	Nokia	8145	TEMPERATURE ALARM	BSC	Environment
Huawei	25622	Mains Input Out of Range	SRAN	Environment	Huawei	20048	Theft Proof	BSC	Environment
Nokia	3439	MAJOR TEMPERATURE DEVIATION DETECTED	BSC	Environment	Huawei	25670	Water Alarm	SRAN	Environment
Huawei	25620	Monitoring Device PowerSupply Problem	SRAN	Environment	Huawei	20043	Water Damage	BSC	Environment
Huawei	25731	Monitoring Device Temperature Abnormal	SRAN	Environment	Nokia	8146	WIND ALARM	BSC	Environment
Huawei	20042	One Input of Fan Box PowerFailure	BSC	Environment					
Huawei	26317	Optical Module Temperature Unacceptable	SRAN	Environment					

Intent-driven – Environmental

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Intent	Intent-driven	10%	How does the wireless network fault management system generate fault management task targets, policies and evaluate the implementation effect based on intent? Note: The Fault management intent can be declarative intent (e.g, the proportion of pre-event trouble tickets) or natural language intent. The examples of fault management policy can be redundancy backup policies.	The system automatically generates fault management task targets and policies based on intent by using intelligent model. Fault management targets and policies need to be manually confirmed. The system automatically evaluates the implementation effect.	The system automatically generates fault management task targets based on predefined rules. Fault management targets and policies need to be manually defined. The effect is manually evaluated after the intent is implemented.	Fault management task targets and policies are manually defined based on expertise. Manually evaluate the effect after the intention is implemented, by tools and system.	Manually set fault management task targets and evaluate the effect.

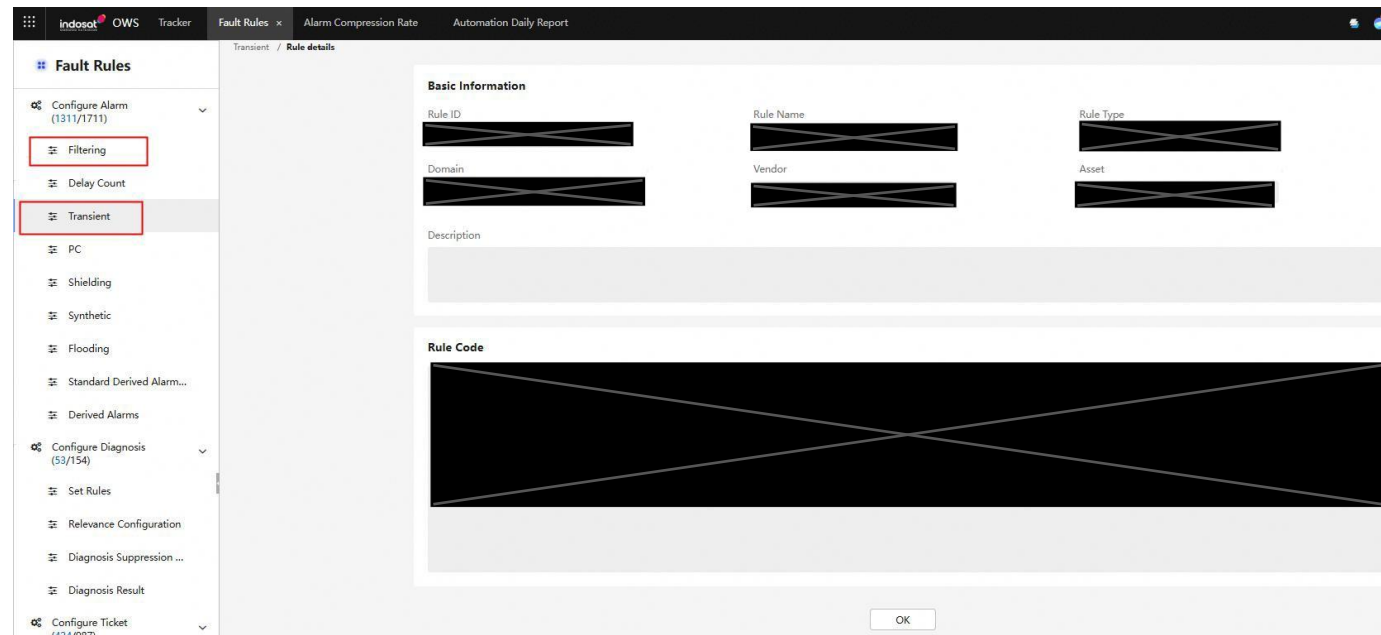


The RAN Fault Management, the BO output the ZLD policy, and OWS put the policy in Fault Rule (Auto Ticketing)

Intent-driven – Security

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Intent	Intent-driven	10%	How does the wireless network fault management system generate fault management task targets, policies and evaluate the implementation effect based on intent? Note: The Fault management intent can be declarative intent (e.g, the proportion of pre-event trouble tickets) or natural language intent. The examples of fault management policy can be redundancy backup policies.	The system automatically generates fault management task targets and policies based on intent by using intelligent model. Fault management targets and policies need to be manually confirmed. The system automatically evaluates the implementation effect.	The system automatically generates fault management task targets based on predefined rules. Fault management targets and policies need to be manually defined. The effect is manually evaluated after the intent is implemented.	Fault management task targets and policies are manually defined based on expertise. Manually evaluate the effect after the intention is implemented, by tools and system.	Manually set fault management task targets and evaluate the effect.

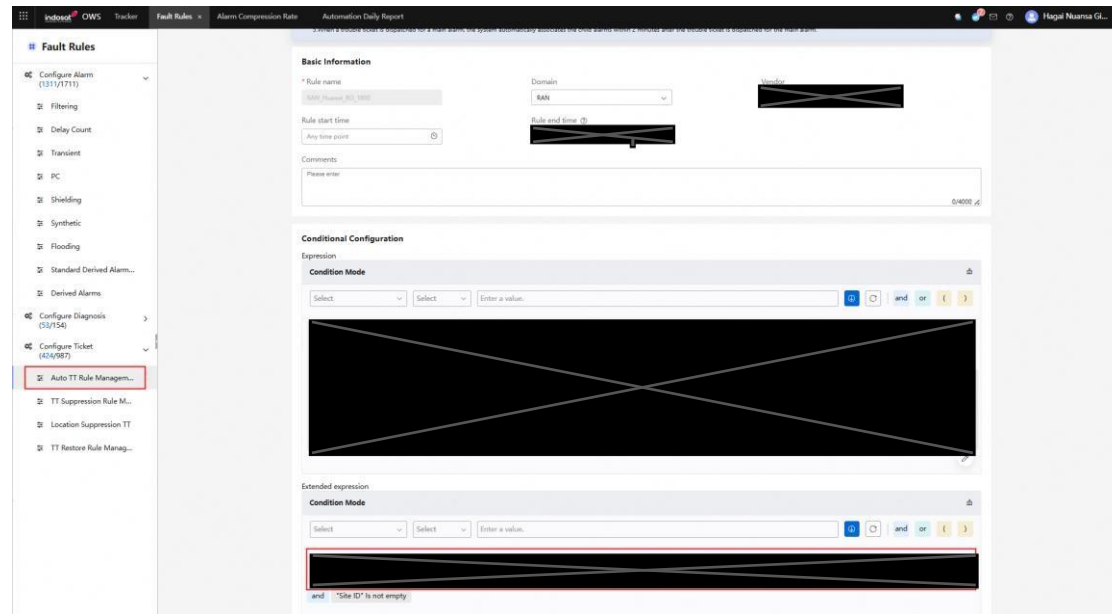
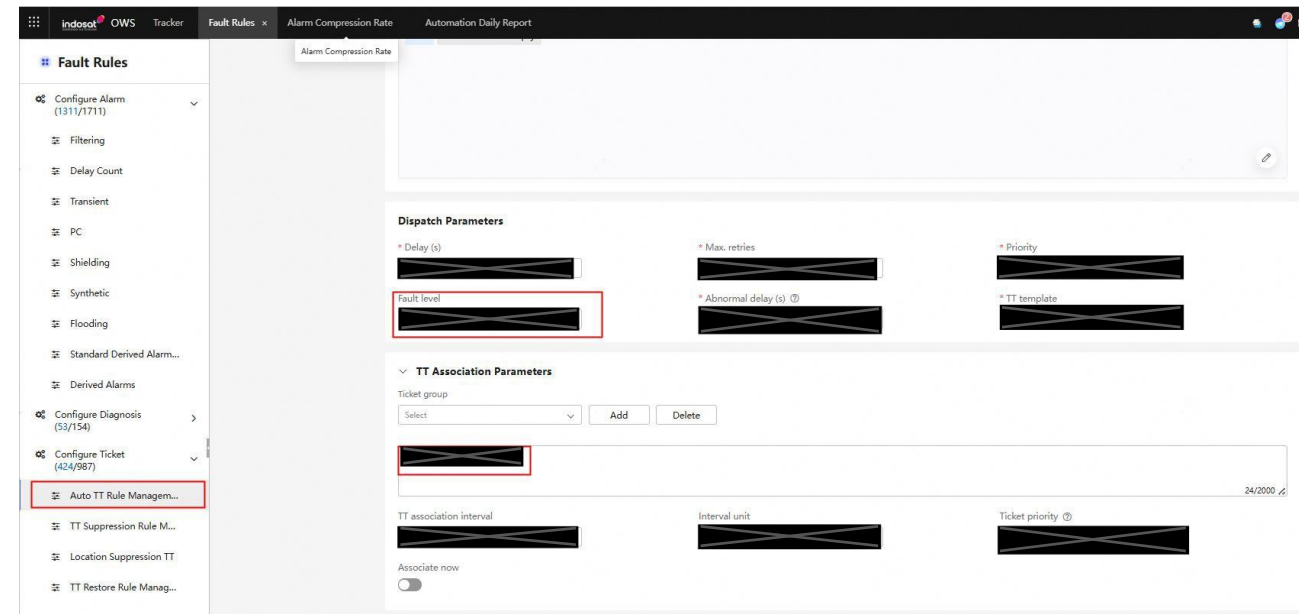
Vendor	Alarm ID	Alarm Name	NE (2G,4G,5G, SRAN, BSC)	TM Type
Huawei	25950	Base Station Being Attacked	SRAN	Security
Nokia	7100	BASE STATION HARDWARE PROBLEM	SRAN	Security
Huawei	26841	Certificate Invalid	SRAN	Security
Huawei	29901	gNodeB Radio Interface Ciphering Disabled	5G	Security



The screenshot displays the 'Fault Rules' configuration page in the Indosat OWS Tracker. The left sidebar shows a tree view with categories like 'Configure Alarm', 'Filtering', 'Delay Count', 'Transient', 'PC', 'Shielding', 'Synthetic', 'Flooding', 'Standard Derived Alarm...', 'Derived Alarms', 'Configure Diagnosis', 'Set Rules', 'Relevance Configuration', 'Diagnosis Suppression...', 'Diagnosis Result', and 'Configure Ticket'. The 'Transient' rule is selected. The main area shows the 'Rule details' for a 'Transient' rule, including fields for Rule ID, Rule Name, Rule Type, Domain, Vendor, Asset, and Description. The 'Rule Code' section is currently empty. An 'OK' button is at the bottom right.

Intent-driven – Security

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Intent	Intent-driven	10%	How does the wireless network fault management system generate fault management task targets, policies and evaluate the implementation effect based on intent? Note: The Fault management intent can be declarative intent (e.g, the proportion of pre-event trouble tickets) or natrual language intent. The examples of fault management policy can be redundancy backup policies.	The system automatically generates fault management task targets and policies based on intent by using intelligent model. Fault management targets and policies need to be manually confirmed. The system automatically evaluates the implementation effect.	The system automatically generates fault management task targets based on predefined rules. Fault management targets and policies need to be manually defined. The effect is manually evaluated after the intent is implemented.	Fault management task targets and policies are manually defined based on expertise. Manually evaluate the effect after the intention is implemented, by tools and system.	Manually set fault management task targets and evaluate the effect. assisted the effect.

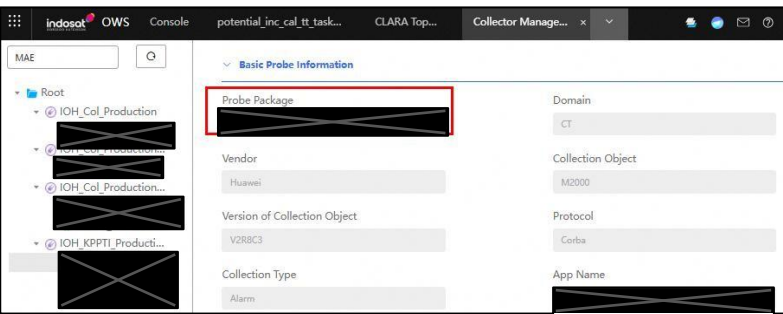
The RAN Fault Management, the BO output the ZLD policy, and OWS put the policy in Fault Rule (Auto Ticketing)

Data collection & Alarm filtering

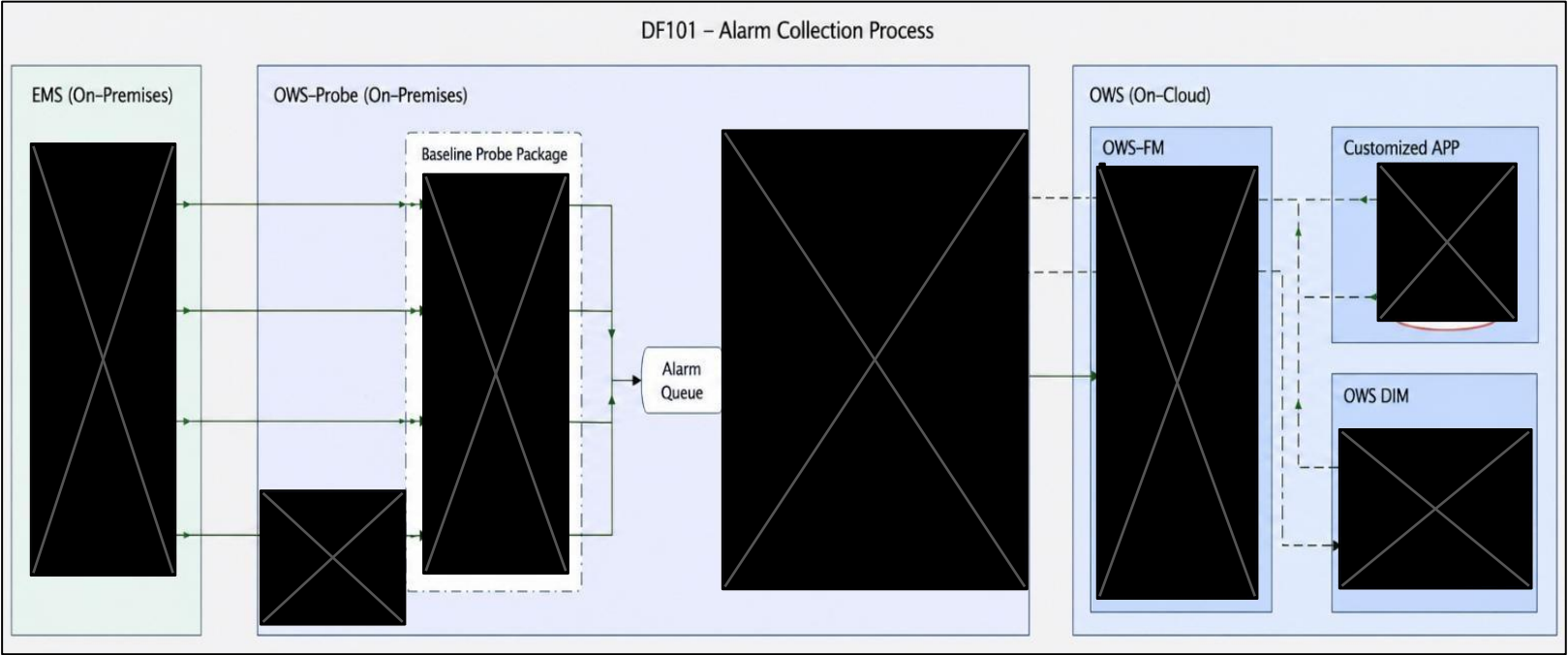
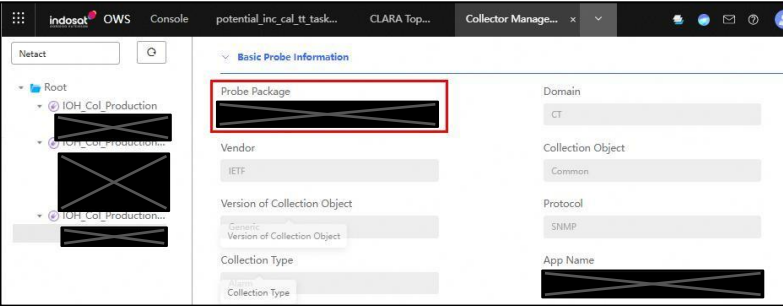
Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Awareness	Data collection & Alarm correlation	10%	How does the wireless network fault management system support automatic data collection & alarm correlation in various fault scenarios?	The system automatically collects data (alarm, configuration, and performance data etc.), and correlates alarms. All data required are automatically collected, no need for additional manually collected data.	The system collects data (alarm, configuration, and performance data etc.), and correlates alarms based on manually defined rules	Manually selects and uses the system to collect data and correlate alarms.	

The system automatically collects data, and correlates alarms. All data required are automatically collected, no need for additional manually collected data.

Huawei MAE – CORBA – OWS FM



Nokia Netact– SNMP – OWS FM



Data collection & Alarm filtering - Equipment



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Awareness	Data collection & Alarm correlation	10%	How does the wireless network fault management system support automatic data collection & alarm correlation in various fault scenarios?	The system automatically collects data (alarm, configuration, and performance data etc.), and correlates alarms. All data required are automatically collected, no need for additional manually collected data.	The system collects data (alarm, configuration, and performance data etc.), and correlates alarms based on manually defined rules	Manually selects and uses the system to collect data and correlate alarms.	

Reporting is Realtime and automatically. Association automatically

Alarm Reporting Type	Alarm SN	Alarm Name	Alarm Source	Site Name	First Occurred On	Ticket ID	Alarm Location Info	PC Rule Result
Real Time	70884308	BBU CPRI Interface Error			2026-04-25 20:19:00	INC-20260425-00027535		
Real Time	70884307	BBU CPRI Interface Error			2026-04-25 20:19:00	INC-20260425-00027535		
Real Time	737894362	BBU CPRI Interface Error			2026-04-21 08:24:11	INC-20260421-00003805		
Real Time	737894359	BBU CPRI Interface Error			2026-04-21 08:24:10	INC-20260421-00003805		
Real Time	737894357	BBU CPRI Interface Error			2026-04-21 08:24:09	INC-20260421-00003805		
Real Time	737415431	BBU CPRI Interface Error			2026-04-19 11:35:38	INC-20260419-00007143		
Real Time	737415425	BBU CPRI Interface Error			2026-04-19 11:35:37	INC-20260419-00007143		
Real Time	737415421	BBU CPRI Interface Error			2026-04-19 11:35:36	INC-20260419-00007143		
Real Time	1304091567	VSWR Over Threshold			2026-04-18 12:45:26	INC-20260418-00019497		
Real Time	1304091566	VSWR Over Threshold			2026-04-18 12:45:26	INC-20260418-00019497		
Real Time	1304091561	VSWR Over Threshold			2026-04-18 12:45:09	INC-20260418-00019497		
Real Time	1304091560	VSWR Over Threshold			2026-04-18 12:45:09	INC-20260418-00019497		
Real Time	1304091565	VSWR Over Threshold			2026-04-18 12:45:21	INC-20260418-00019497		
Real Time	1304067556	VSWR Over Threshold			2026-04-15 14:38:55	INC-20260415-00019989		
Real Time	79862918	BBU CPRI Interface Error			2026-04-14 12:52:57	INC-20260414-00013978		
Real Time	79862830	BBU CPRI Interface Error			2026-04-14 12:52:49	INC-20260414-00013978		

Data collection & Alarm filtering - Processing Error



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Awareness	Data collection & Alarm correlation	10%	How does the wireless network fault management system support automatic data collection & alarm correlation in various fault scenarios?	The system automatically collects data (alarm, configuration, and performance data etc.), and correlates alarms. All data required are automatically collected, no need for additional manually collected data.	The system collects data (alarm, configuration, and performance data etc.), and correlates alarms based on manually defined rules	Manually selects and uses the system to collect data and correlate alarms.	

Reporting is Realtime and automatically. Association automatically

Alarm Reporting Type	Alarm SN	Alarm Name	Alarm Source	Site Name	First Occurred On	Ticket Creation Type	Ticket ID	Alarm Location Info
Real Time	710616560	BASE STATION SERVICE PROBLEM-Not able to synchronize b...			2026-04-26 15:35:05	Auto association	INC-20260426-00022692	
Real Time	1811342372	BASE STATION SERVICE PROBLEM-Not able to synchronize b...			2026-04-29 06:14:29	Auto association	INC-20260428-00027478	
Real Time	1811392586	BASE STATION SERVICE PROBLEM-Not able to synchronize b...			2026-04-29 09:45:39	Associate Alarms with Ticket	INC-20260429-00019245	
Real Time	1811369832	BASE STATION SERVICE PROBLEM-Not able to synchronize b...			2026-04-29 08:18:21	Auto creation	INC-20260429-00013106	
Real Time	1298153648	BASE STATION SERVICE PROBLEM-SRIO link outage			2026-04-04 08:43:41	Auto creation	INC-20260404-00008578	
Real Time	1811529530	BASE STATION SERVICE PROBLEM-No connection to unit			2026-04-29 16:08:03	Auto association	INC-20260428-00021387	
Real Time	711137411	BASE STATION SERVICE PROBLEM-Receiving failure in Optical...			2026-04-29 16:07:40	Associate Alarms with Ticket	INC-20260429-00020707	
Real Time	711137185	BASE STATION SERVICE PROBLEM-10b8b coding error in opti...			2026-04-29 16:06:41	Auto association	INC-20260429-00007165	
Real Time	697824603	BASE STATION SERVICE PROBLEM-No connection to unit			2026-04-29 16:06:33	Auto association	INC-20260429-00014602	
Real Time	697824602	BASE STATION SERVICE PROBLEM-No connection to unit			2026-04-29 16:06:33	Auto association	INC-20260429-00014602	
Real Time	697824620	BASE STATION SERVICE PROBLEM-No connection to unit			2026-04-29 16:06:33	Auto association	INC-20260429-00014602	

Alarm Reporting Type	Alarm SN	Alarm Name	Alarm Source	Site Name	First Occurred On	Ticket Creation Type	Ticket ID	Alarm Location Info
Real Time	739682888	Time Synchronization Failure			2026-04-28 01:54:36	Auto association	INC-20260427-00006963	
Real Time	739660316	Time Synchronization Failure			2026-04-27 23:04:13	Auto creation	INC-20260428-00000810	
Real Time	739603377	Time Synchronization Failure			2026-04-27 18:19:50	Associate Alarms with Ticket	INC-20260427-00023194	
Real Time	739394762	Time Synchronization Failure			2026-04-26 22:37:38	Auto association	INC-20260426-00009794	
Real Time	70737125	Time Synchronization Failure			2026-04-24 21:19:32	Auto creation	INC-20260425-00004286	
Real Time	737993210	Time Synchronization Failure			2026-04-21 15:16:46	Auto creation	INC-20260421-00023526	
Real Time	737911635	Time Synchronization Failure			2026-04-21 10:00:22	Auto association	INC-20260420-00017517	
Real Time	737815869	Time Synchronization Failure			2026-04-21 00:21:23	Auto association	INC-20260420-00020965	
Real Time	737416497	Time Synchronization Failure			2026-04-19 11:43:37	Auto association	INC-20260419-00007104	
Real Time	737214010	Time Synchronization Failure			2026-04-18 15:41:21	Auto association	INC-20260418-00015605	
Real Time	737057268	Time Synchronization Failure			2026-04-18 00:43:29	Associate Alarms with Ticket	INC-20260418-00000658	
Real Time	736683090	Time Synchronization Failure			2026-04-16 15:25:07	Auto association	INC-20260416-00015882	

Data collection & Alarm filtering - Communications



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Awareness	Data collection & Alarm correlation	10%	How does the wireless network fault management system support automatic data collection & alarm correlation in various fault scenarios?	The system automatically collects data (alarm, configuration, and performance data etc.), and correlates alarms. All data required are automatically collected, no need for additional manually collected data.	The system collects data (alarm, configuration, and performance data etc.), and correlates alarms based on manually defined rules	Manually selects and uses the system to collect data and correlate alarms.	

Reporting is Realtime and automatically. Association automatically

Alarm Reporting Type	Alarm SN	Alarm Name	Alarm Source	Site Name	First Occurred On	Ticket Creation Type	Ticket ID	Alarm Location Info
Real Time	71609723	RET Antenna Motor Fault			2026-04-29 16:08:48	Auto association	INC-20260429-00002298	
Real Time	71609614	RET Antenna Motor Fault			2026-04-29 16:08:31	Auto association	INC-20260429-00015996	
Real Time	71609587	RET Antenna Motor Fault			2026-04-29 16:08:03	Auto association	INC-20260429-00001387	
Real Time	71609565	RET Antenna Motor Fault			2026-04-29 16:07:54	Auto association	INC-20260429-00001377	
Real Time	83341685	RET Antenna Motor Fault			2026-04-29 16:07:25	Auto association	INC-20260429-00015735	
Real Time	83341069	RET Antenna Motor Fault			2026-04-29 16:05:29	Auto association	INC-20260429-00000217	
Real Time	83341006	RET Antenna Motor Fault			2026-04-29 16:04:37	Auto association	INC-20260429-00006706	
Real Time	83340652	RET Antenna Motor Fault			2026-04-29 16:03:24	Auto association	INC-20260428-00026191	
Real Time	83340616	RET Antenna Motor Fault			2026-04-29 16:03:05	Auto association	INC-20260429-00010005	
Real Time	83340205	RET Antenna Motor Fault			2026-04-29 16:01:34	Auto association	INC-20260429-00004026	
Real Time	2086349931	RET Antenna Running Data and Configuration Mismatch			2026-04-29 16:00:45	Associate Alarms with Ticket	INC-20260429-00020484	
Real Time	2086349908	RET Antenna Running Data and Configuration Mismatch			2026-04-29 16:00:45	Associate Alarms with Ticket	INC-20260429-00020484	
Real Time	2086349928	RET Antenna Running Data and Configuration Mismatch			2026-04-29 16:00:45	Associate Alarms with Ticket	INC-20260429-00020484	
Real Time	2086349925	RET Antenna Running Data and Configuration Mismatch			2026-04-29 16:00:45	Associate Alarms with Ticket	INC-20260429-00020484	
Real Time	2086349932	RET Antenna Running Data and Configuration Mismatch			2026-04-29 16:00:45	Associate Alarms with Ticket	INC-20260429-00020484	
Real Time	2086349934	RET Antenna Running Data and Configuration Mismatch			2026-04-29 16:00:45	Associate Alarms with Ticket	INC-20260429-00020484	
Real Time	2086349935	RET Antenna Running Data and Configuration Mismatch			2026-04-29 16:00:45	Associate Alarms with Ticket	INC-20260429-00020484	
Real Time	2086349926	RET Antenna Running Data and Configuration Mismatch			2026-04-29 16:00:45	Associate Alarms with Ticket	INC-20260429-00020484	
Real Time	2086349929	RET Antenna Running Data and Configuration Mismatch			2026-04-29 16:00:45	Associate Alarms with Ticket	INC-20260429-00020484	
Real Time	2086349924	RET Antenna Running Data and Configuration Mismatch			2026-04-29 16:00:45	Associate Alarms with Ticket	INC-20260429-00020484	
Real Time	2086349933	RET Antenna Running Data and Configuration Mismatch			2026-04-29 16:00:45	Associate Alarms with Ticket	INC-20260429-00020484	
Real Time	2086349910	RET Antenna Running Data and Configuration Mismatch			2026-04-29 16:00:45	Associate Alarms with Ticket	INC-20260429-00020484	

Data collection & Alarm filtering - Environmental



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Awareness	Data collection & Alarm correlation	10%	How does the wireless network fault management system support automatic data collection & alarm correlation in various fault scenarios?	The system automatically collects data (alarm, configuration, and performance data etc.), and correlates alarms. All data required are automatically collected, no need for additional manually collected data.	The system collects data (alarm, configuration, and performance data etc.), and correlates alarms based on manually defined rules	Manually selects and uses the system to collect data and correlate alarms.	

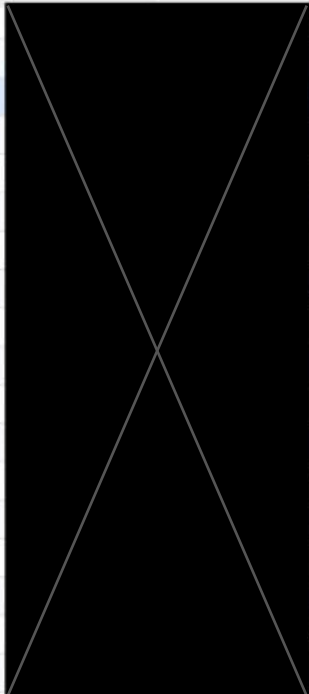
Reporting is Realtime and automatically. Association automatically

Alarm Reporting Type	Alarm SN	Alarm Name	Alarm Source	Site Name	First Occurred On	Ticket Creation Type	Ticket ID	Alarm Location Info
Real Time	711135927	Mains Failure			2026-04-29 16:02:39	Auto creation	INC-20260429-00020603	NEJamesGITE GEMSOIDENCK DEMSET (Mission/AlarmId:4615cb37698c8b92
Real Time	711135924	Mains Failure			2026-04-29 16:02:39	Auto creation	INC-20260429-00020767	
Real Time	711135929	Mains Failure			2026-04-29 16:02:38	Auto creation	INC-20260429-00020594	
Real Time	71608782	DC Low Voltage			2026-04-29 16:02:32	Auto association	INC-20260429-00017643	
Real Time	1811527343	Mains Failure			2026-04-29 16:02:28	Auto association	INC-20260429-00017364	
Real Time	1811527337	Mains Failure			2026-04-29 16:02:23	Auto association	INC-20260429-00019538	
Real Time	1811527095	Mains Failure			2026-04-29 16:01:39	Auto creation	INC-20260429-00020567	
Real Time	1811527093	DC Low Voltage			2026-04-29 16:01:39	Associate Alarms with Ticket	INC-20260429-00020567	
Real Time	740136939	Mains Failure			2026-04-29 16:01:18	Associate Alarms with Ticket	INC-20260429-00020730	
Real Time	697823180	Mains Failure			2026-04-29 16:01:16	Auto association	INC-20260429-00004046	
Real Time	92901359	Mains Failure			2026-04-29 16:00:46	Auto creation	INC-20260429-00020531	
Real Time	92901329	DC Low Voltage			2026-04-29 16:00:44	Auto association	INC-20260429-00020816	
Real Time	71609106	DC Low Voltage			2026-04-29 16:00:41	Auto association	INC-20260429-00017876	
Real Time	1811526474	Mains Failure			2026-04-29 16:00:41	Auto association	INC-20260429-00011931	
Real Time	71608050	DC Low Voltage			2026-04-29 16:00:34	Auto association	INC-20260429-00016630	
Real Time	740136652	Mains Failure			2026-04-29 16:00:31	Associate Alarms with Ticket	INC-20260429-00020455	
Real Time	740137824	Power Module and Monitoring Module Communication Failure			2026-04-29 16:00:24	Auto creation	INC-20260429-00020597	
Real Time	92901013	Mains Failure			2026-04-29 16:00:20	Auto creation	INC-20260429-00020513	
Real Time	92901016	Mains Failure			2026-04-29 16:00:20	Auto creation	INC-20260429-00020723	
Real Time	92900875	Mains Failure			2026-04-29 16:00:14	Auto creation	INC-20260429-00020522	
Real Time	1302019044	Mains Failure			2026-04-29 16:00:13	Auto creation	INC-20260429-00020519	
Real Time	740136450	Mains Failure			2026-04-29 16:00:12	Auto creation	INC-20260429-00020521	
Real Time	740136448	Mains Failure			2026-04-29 16:00:11	Auto creation	INC-20260429-00020718	
Real Time	740136783	Mains Failure			2026-04-29 16:00:10	Associate Alarms with Ticket	INC-20260429-00020718	
Real Time	740136738	Mains Failure			2026-04-29 16:00:03	Auto creation	INC-20260429-00020527	
Real Time	740136403	Mains Failure			2026-04-29 15:59:52	Auto creation	INC-20260429-00020502	
Real Time	740136373	Mains Failure			2026-04-29 15:59:48	Auto creation	INC-20260429-00020700	
Real Time	740136591	Mains Failure			2026-04-29 15:59:48	Associate Alarms with Ticket	INC-20260429-00020703	
Real Time	740136370	Mains Failure			2026-04-29 15:59:47	Auto creation	INC-20260429-00020703	
Real Time	740136558	Mains Failure			2026-04-29 15:59:45	Auto creation	INC-20260429-00020730	

Data collection & Alarm filtering - Security

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Awareness	Data collection & Alarm correlation	10%	How does the wireless network fault management system support automatic data collection & alarm correlation in various fault scenarios?	The system automatically collects data (alarm, configuration, and performance data etc.), and correlates alarms. All data required are automatically collected, no need for additional manually collected data.	The system collects data (alarm, configuration, and performance data etc.), and correlates alarms based on manually defined rules	Manually selects and uses the system to collect data and correlate alarms.	

Reporting is Realtime and automatically. Association automatically

Ticket ID	Alarm Severity	Alarm Name	Alarm ID	Alarm SN	Site Name	Alarm Source	First Occurred On	Last Occurred On	Alarm Location Info	Clearance Status
INC-20260414-00009425	Major	Certificate Invalid	26841	2079276614			2026-04-14 12:46:43	2026-04-14 12:46:43	Certificate Type=Trust certificate, Certificate Na...	Uncleared
INC-20260414-00020843	Major	Certificate Invalid	26841	2079321085			2026-04-14 12:22:31	2026-04-14 12:22:31	Certificate Type=Trust certificate, Certificate Na...	Uncleared
INC-20260414-00016526	Major	Certificate Invalid	26841	2079261097			2026-04-14 12:14:18	2026-04-14 12:14:18	Certificate Type=Trust certificate, Certificate Na...	Uncleared
INC-20260414-00007238	Major	Certificate Invalid	26841	79833979			2026-04-14 11:40:27	2026-04-14 11:40:27	Certificate Type=Trust certificate, Certificate Name=RootCAME2.car, Vendor Cert ID=No, Specific Problem=Lost	Uncleared
INC-20260414-00014405	Major	Certificate Invalid	26841	2079230790			2026-04-14 11:16:36	2026-04-14 11:16:36		Uncleared
INC-20260414-00014491	Major	Certificate Invalid	26841	2079232501			2026-04-14 11:16:11	2026-04-14 11:16:11	Certificate Type=Trust certificate, Certificate Na...	Uncleared
INC-20260414-00013760	Major	Certificate Invalid	26841	2079216310			2026-04-14 10:54:37	2026-04-14 10:54:37	Certificate Type=Trust certificate, Certificate Na...	Uncleared
INC-20260414-00000408	Major	Certificate Invalid	26841	2079211923			2026-04-14 10:36:38	2026-04-14 10:36:38	Certificate Type=Trust certificate, Certificate Na...	Uncleared
INC-20260414-00010095	Major	Certificate Invalid	26841	121431086			2026-04-14 09:46:29	2026-04-14 09:46:29	Certificate Type=Trust certificate, Certificate Na...	Uncleared
INC-20260414-00015636	Major	Certificate Invalid	26841	2079245756			2026-04-14 09:45:33	2026-04-14 09:45:33	Certificate Type=Trust certificate, Certificate Na...	Uncleared
INC-20260414-00009614	Major	Certificate Invalid	26841	68429142			2026-04-14 09:03:09	2026-04-14 09:03:09	Certificate Type=Trust certificate, Certificate Na...	Uncleared
INC-20260414-00009614	Major	Certificate Invalid	26841	68429141			2026-04-14 09:03:09	2026-04-14 09:03:09	Certificate Type=Trust certificate, Certificate Na...	Uncleared
INC-20260414-00009425	Major	Certificate Invalid	26841	2079168787			2026-04-14 08:56:38	2026-04-14 08:56:38	Certificate Type=Trust certificate, Certificate Na...	Cleared
INC-20260414-00008459	Major	Certificate Invalid	26841	2079157721			2026-04-14 08:27:06	2026-04-14 08:27:06	Certificate Type=Trust certificate, Certificate Na...	Uncleared
INC-20260414-00007238	Major	Certificate Invalid	26841	79759619			2026-04-14 07:37:01	2026-04-14 07:37:01	Certificate Type=Trust certificate, Certificate Na...	Cleared
INC-20260414-00001171	Major	Certificate Invalid	26841	2079049665			2026-04-14 00:56:53	2026-04-14 00:56:53	Certificate Type=Trust certificate, Certificate Na...	Uncleared
INC-20260414-00000408	Major	Certificate Invalid	26841	2079034131			2026-04-13 23:52:27	2026-04-13 23:52:27	Certificate Type=Trust certificate, Certificate Na...	Cleared
INC-20260413-00029211	Major	Certificate Invalid	26841	2078989083			2026-04-13 21:56:45	2026-04-13 21:56:45	Certificate Type=Trust certificate, Certificate Na...	Uncleared



Fault Prediction

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Awareness	Fault Prediction	15%	How does the wireless network fault management system support fault prediction in various fault scenarios? Note: For example, the system predict the bit error rate and link interruption of fronthaul and predict the aging and damage of board.	The system identifies potential risks and predicts the fault occurrence time based on intelligent models without the need for human intervention.	The system identifies potential risks based on intelligent models, but cannot predict the fault occurrence time.	The system identifies potential risks based on manually defined rules. For example, the system can identify potential risks of fronthaul optical modules based on preset optical power thresholds.	Potential risks need to be manually identified based on expertise.

Alarm Name	Alarm Source	Site Name	Alarm Location Info	First Occurred On
Chronic - Cell RX Channel Interference Nois...	KUDUSCITY_EP_4G			2026-04-26 00:33:31
Chronic - Cell RX Channel Interference Nois...	ALASKANDANG_CM_4G			2026-04-25 20:00:19
Chronic - Cell RX Channel Interference Nois...	RITZCARLTON_DPR_EP_4G			2026-04-26 17:32:47
Chronic - Cell RX Channel Interference Nois...	GUMIWANGPBG_TB_4G			2026-04-25 19:37:29
Chronic - Cell RX Channel Interference Nois...	KARANGMOJO_WOS_EP_4G			2026-04-25 07:03:28

Alarm Name	Alarm Source	Site Name	Alarm Location Info	First Occurred On
Chronic - NE3SWS AGENT NOT RESPONDING TO REQUESTS			ING...	2026-04-28 07:49:16
Chronic - NE3SWS AGENT NOT RESPONDING TO REQUESTS			ING...	2026-04-28 07:49:16
Chronic - NE3SWS AGENT NOT RESPONDING TO REQUESTS			ING...	2026-04-28 07:48:46
Chronic - NE3SWS AGENT NOT RESPONDING TO REQUESTS			ING...	2026-04-28 07:48:46
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit			LEM...	2026-04-29 00:00:13
Chronic - BASE STATION HARDWARE PROBLEM-Connection Unstable At 6Gbps			BLE...	2026-04-29 17:22:13
Chronic - BTS O&M LINK FAILURE				2026-04-27 08:36:36
Chronic - BTS O&M LINK FAILURE				2026-04-27 08:36:36
Chronic - NE3SWS AGENT NOT RESPONDING TO REQUESTS			ING ...	2026-04-27 08:37:45
Chronic - NE3SWS AGENT NOT RESPONDING TO REQUESTS			ING ...	2026-04-27 08:37:45
Chronic - BTS O&M LINK FAILURE				2026-04-28 07:47:43
Chronic - BTS O&M LINK FAILURE				2026-04-28 07:47:43
Chronic - BTS O&M LINK FAILURE				2026-04-28 07:47:43
Chronic - BTS O&M LINK FAILURE				2026-04-28 07:47:43
Chronic - BASE STATION HARDWARE PROBLEM-Connection Unstable At 6Gbps			BLE...	2026-04-29 17:15:02
Chronic - BASE STATION HARDWARE PROBLEM-Connection Unstable At 6Gbps			BLE...	2026-04-29 17:29:47
Chronic - VSWR Over Threshold				2026-04-27 15:08:01
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit			M...	2026-04-29 15:36:57
Chronic - BBU CPRI Interface Error				2026-04-29 16:45:42
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit			M-N...	2026-04-29 12:12:21
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit			M...	2026-04-29 17:24:55
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit			M...	2026-04-29 17:24:36

Potential risk trigger based on defined rule (based on threshold) in OWS

Alarm Name	Alarm Source	Site Name	Alarm Location Info	First Occurred On
Chronic - Mains Failure				2026-04-29 15:54:42
Chronic - Mains Failure				2026-04-29 02:36:25
Chronic - High Temperature				2026-04-28 14:49:58
Chronic - Mains Failure				2026-04-28 02:17:05
Chronic - Mains Failure				2026-04-28 11:10:35
Chronic - Mains Failure				2026-04-27 19:10:55
Chronic - Mains Failure				2026-04-28 11:33:43
Chronic - Mains Failure				2026-04-26 09:25:36
Chronic - High Temperature				2026-04-27 13:53:50
Chronic - Mains Failure				2026-04-26 23:11:38
Chronic - High Temperature				2026-04-25 14:37:46

Fault Prediction – Equipment



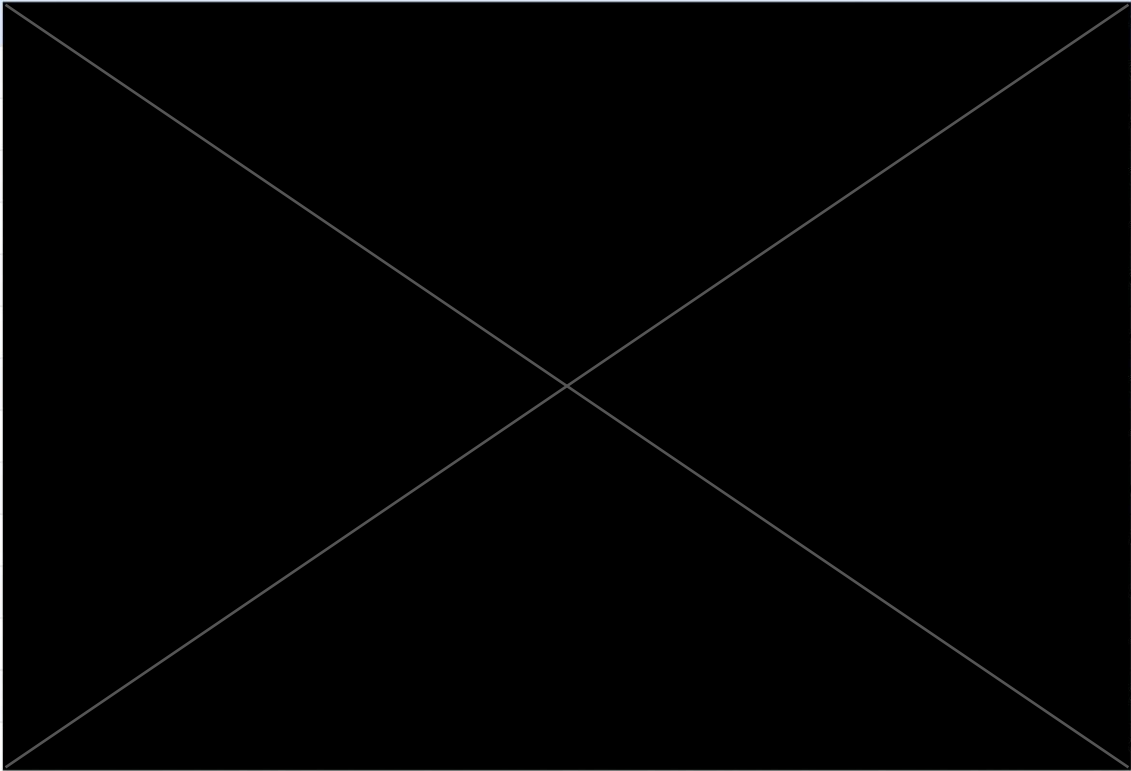
Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Awareness	Fault Prediction	15%	How does the wireless network fault management system support fault prediction in various fault scenarios? Note: For example, the system predict the bit error rate and link interruption of fronthaul and predict the aging and damage of board.	The system identifies potential risks and predicts the fault occurrence time based on intelligent models without the need for human intervention.	The system identifies potential risks based on intelligent models, but cannot predict the fault occurrence time.	The system identifies potential risks based on manually defined rules. For example, the system can identify potential risks of fronthaul optical modules based on preset optical power thresholds.	Potential risks need to be manually identified based on expertise.

Alarm Name	Alarm Source	Site Name	Alarm Location Info	First Occurred On
Chronic - Cell RX Channel Interference Noise Power Unbalanced				... 2026-04-29 19:16:10
Chronic - Cell RX Channel Interference Noise Power Unbalanced				... 2026-05-02 01:01:57
Chronic - Cell RX Channel Interference Noise Power Unbalanced				... 2026-04-29 01:52:34
Chronic - Cell RX Channel Interference Noise Power Unbalanced				... 2026-04-28 22:42:04
Chronic - Cell RX Channel Interference Noise Power Unbalanced				... 2026-04-28 20:03:43
Chronic - Cell RX Channel Interference Noise Power Unbalanced				... 2026-04-30 21:02:20
Chronic - Cell RX Channel Interference Noise Power Unbalanced				... 2026-04-28 21:18:22
Chronic - Cell RX Channel Interference Noise Power Unbalanced				... 2026-05-01 13:26:00
Chronic - Cell RX Channel Interference Noise Power Unbalanced				P... 2026-04-29 14:42:31
Chronic - Cell RX Channel Interference Noise Power Unbalanced				... 2026-05-01 09:51:43
Chronic - Cell RX Channel Interference Noise Power Unbalanced				... 2026-04-29 15:38:52
Chronic - Cell RX Channel Interference Noise Power Unbalanced				... 2026-04-29 01:43:55
Chronic - Cell RX Channel Interference Noise Power Unbalanced				... 2026-05-01 08:42:22

Potential risk trigger based on defined rule (based on threshold)

Fault Prediction – Processing Error

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Awareness	Fault Prediction	15%	How does the wireless network fault management system support fault prediction in various fault scenarios? Note: For example, the system predict the bit error rate and link interruption of fronthaul and predict the aging and damage of board.	The system identifies potential risks and predicts the fault occurrence time based on intelligent models without the need for human intervention.	The system identifies potential risks based on intelligent models, but cannot predict the fault occurrence time.	The system identifies potential risks based on manually defined rules. For example, the system can identify potential risks of fronthaul optical modules based on preset optical power thresholds.	Potential risks need to be manually identified based on expertise.

Alarm Name	Alarm Source	Site Name	Alarm Location Info	First Occurred On
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit				ATION SERVICE PROBLEM-N... 2026-05-04 10:11:18
Chronic - BBU CPRI Interface Error				RI Interface Error : 3 2026-05-04 09:47:07
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit				ATION SERVICE PROBLEM-N... 2026-05-04 10:12:39
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit				TATION SERVICE PROBLEM-... 2026-05-04 10:42:22
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit				TATION SERVICE PROBLEM-... 2026-05-04 08:47:50
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit				ATION SERVICE PROBLEM-N... 2026-05-03 21:24:16
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit				ATION SERVICE PROBLEM-... 2026-05-04 10:09:47
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit				TATION SERVICE PROBLEM-... 2026-05-03 14:35:43
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit				TATION SERVICE PROBLEM-... 2026-05-04 09:53:16
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit				TATION SERVICE PROBLEM-N... 2026-05-03 16:35:59
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit				TATION SERVICE PROBLEM-N... 2026-05-04 07:15:22
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit				TATION SERVICE PROBLEM-N... 2026-05-04 09:44:24
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit				TATION SERVICE PROBLEM-... 2026-05-04 09:52:36
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit				TATION SERVICE PROBLEM-N... 2026-05-04 08:36:36
Chronic - BASE STATION SERVICE PROBLEM-No connection to unit				TATION SERVICE PROBLEM-N... 2026-05-04 09:25:49

Potential risk trigger based on defined rule (based on threshold)

Fault Prediction – Communications



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Awareness	Fault Prediction	15%	How does the wireless network fault management system support fault prediction in various fault scenarios? Note: For example, the system predict the bit error rate and link interruption of fronthaul and predict the aging and damage of board.	The system identifies potential risks and predicts the fault occurrence time based on intelligent models without the need for human intervention.	The system identifies potential risks based on intelligent models, but cannot predict the fault occurrence time.	The system identifies potential risks based on manually defined rules. For example, the system can identify potential risks of fronthaul optical modules based on preset optical power thresholds.	Potential risks need to be manually identified based on expertise.

Alarm Name	Alarm Source	Site Name	Alarm Location Info	First Occurred On
Chronic - BTS O&M LINK FAILURE			Chronic - BTS O&M LINK FAILURE : 5	2026-05-03 11:00:48
Chronic - BTS O&M LINK FAILURE			Chronic - BTS O&M LINK FAILURE : 5	2026-05-03 11:00:48
Chronic - BTS O&M LINK FAILURE			Chronic - BTS O&M LINK FAILURE : 5	2026-05-03 11:00:42
Chronic - BTS O&M LINK FAILURE			Chronic - BTS O&M LINK FAILURE : 5	2026-05-03 11:00:42
Chronic - BTS O&M LINK FAILURE			Chronic - BTS O&M LINK FAILURE : 5	2026-05-04 10:11:54
Chronic - BTS O&M LINK FAILURE			Chronic - BTS O&M LINK FAILURE : 5	2026-05-04 10:11:54
Chronic - BTS O&M LINK FAILURE			Chronic - BTS O&M LINK FAILURE : 5	2026-05-02 11:24:54
Chronic - BTS O&M LINK FAILURE			Chronic - BTS O&M LINK FAILURE : 5	2026-05-03 17:10:36
Chronic - BTS O&M LINK FAILURE			Chronic - BTS O&M LINK FAILURE : 5	2026-05-04 09:35:23
Chronic - BTS O&M LINK FAILURE			Chronic - BTS O&M LINK FAILURE : 5	2026-05-04 09:35:23
Chronic - BTS O&M LINK FAILURE			Chronic - BTS O&M LINK FAILURE : 5	2026-05-04 06:40:52
Chronic - BTS O&M LINK FAILURE			Chronic - BTS O&M LINK FAILURE : 5	2026-05-04 06:40:52
Chronic - BTS O&M LINK FAILURE			Chronic - BTS O&M LINK FAILURE : 5	2026-05-04 09:35:23
Chronic - BTS O&M LINK FAILURE			Chronic - BT	
Chronic - BTS O&M LINK FAILURE			Chronic - BT	

Potential risk trigger based on defined rule (based on threshold)

Fault Prediction – Environmental



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Awareness	Fault Prediction	15%	How does the wireless network fault management system support fault prediction in various fault scenarios? Note: For example, the system predict the bit error rate and link interruption of fronthaul and predict the aging and damage of board.	The system identifies potential risks and predicts the fault occurrence time based on intelligent models without the need for human intervention.	The system identifies potential risks based on intelligent models, but cannot predict the fault occurrence time.	The system identifies potential risks based on manually defined rules. For example, the system can identify potential risks of fronthaul optical modules based on preset optical power thresholds.	Potential risks need to be manually identified based on expertise.

Alarm Name	Alarm Source	Site Name	Alarm Location Info	First Occurred On
Chronic - Mains Failure			chronic for alarm: Chronic - Mains Failure : 3	2026-04-29 15:54:42
Chronic - Mains Failure			chronic for alarm: Chronic - Mains Failure : 3	2026-04-29 02:36:25
Chronic - High Temperature			chronic for alarm: Chronic - High Temperature : 3	2026-04-28 14:49:58
Chronic - Mains Failure			chronic for alarm: Chronic - Mains Failure : 3	2026-04-28 02:17:05
Chronic - Mains Failure			chronic for alarm: Chronic - Mains Failure : 3	2026-04-28 11:10:35
Chronic - Mains Failure			chronic for alarm: Chronic - Mains Failure : 3	2026-04-27 19:10:55
Chronic - Mains Failure			chronic for alarm: Chronic - Mains Failure : 3	2026-04-28 11:33:43
Chronic - Mains Failure			chronic for alarm: Chronic - Mains Failure : 3	2026-04-26 09:25:36
Chronic - High Temperature			chronic for alarm: Chronic - High Temperature : 3	2026-04-27 13:53:50
Chronic - Mains Failure			chronic for alarm: Chronic - Mains Failure : 3	2026-04-26 23:11:38
Chronic - High Temperature			chronic for alarm: Chronic - High Temperature : 4	2026-04-25 14:37:46

Potential risk trigger based on defined rule (based on threshold)

Fault Prediction – Security



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Awareness	Fault Prediction	15%	How does the wireless network fault management system support fault prediction in various fault scenarios? Note: For example, the system predict the bit error rate and link interruption of fronthaul and predict the aging and damage of board.	The system identifies potential risks and predicts the fault occurrence time based on intelligent models without the need for human intervention.	The system identifies potential risks based on intelligent models, but cannot predict the fault occurrence time.	The system identifies potential risks based on manually defined rules. For example, the system can identify potential risks of fronthaul optical modules based on preset optical power thresholds.	Potential risks need to be manually identified based on expertise.

Alarm Severity	Alarm Name	Alarm ID	Site Name	Alarm Source	First Occurred On	Last Occurred On	Ticket ID	Alarm Location Info
Critical	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-20 01:11:50	2026-05-20 06:34:11	INC-20260520-00002593	Chronic - BASE STATION HARDWA
Major	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-20 03:33:24	2026-05-20 05:19:29	INC-20260520-00004216	Chronic - BASE STATION HARDWA
Critical	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-20 00:44:30	2026-05-20 01:25:59	INC-20260520-00001476	Chronic - BASE STATION HARDWA
Critical	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-20 00:14:38	2026-05-20 00:35:49	INC-20260520-00000820	Chronic - BASE STATION HARDWA
Major	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-19 19:44:02	2026-05-19 22:28:29	INC-20260519-00029056	Chronic - BASE STATION HARDWA
Critical	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-19 18:27:00	2026-05-19 22:08:48	INC-20260519-00025524	Chronic - BASE STATION HARDWA
Major	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-19 18:42:38	2026-05-19 21:32:19	INC-20260519-00028222	Chronic - BASE STATION HARDW
Critical	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-19 20:54:06	2026-05-19 21:27:13	INC-20260519-00028148	Chronic - BASE STATION HARDWA
Major	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-19 20:01:51	2026-05-19 21:24:27	INC-20260519-00020545	Chronic - BASE STATION HARDWA
Critical	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-19 20:13:31	2026-05-19 21:10:59	INC-20260519-00027883	Chronic - BASE STATION HARDWA
Critical	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-18 22:20:16	2026-05-19 21:05:19	INC-20260519-00027821	Chronic - BASE STATION HARDWA
Major	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-19 19:54:04	2026-05-19 20:56:29	INC-20260519-00027690	Chronic - BASE STATION HARDWA
Critical	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-19 20:02:43	2026-05-19 20:42:11	INC-20260519-00027445	Chronic - BASE STATION HARDWA
Major	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-19 20:13:04	2026-05-19 20:34:34	INC-20260519-00026906	Chronic - BASE STATION HARDWA
Major	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-19 19:28:14	2026-05-19 20:31:26	INC-20260519-00027257	Chronic - BASE STATION HARDWA
Major	Chronic - BASE STATION HARDWARE PROBLEM...	Chronic - 7100			2026-05-19 18:54:25	2026-05-19 20:20:26	INC-20260519-00027045	Chronic - BASE STATION HARDWA

Potential risk trigger based on defined rule (based on threshold)

Fault identification & Impact analysis - Equipment

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Fault identification & Impact analysis	15%	How does the wireless network fault management system support fault identification & fault impact analysis in various fault scenarios?	The system identifies faults and subsequent impact based on intelligent models without the need for human intervention.	The system identifies faults and subsequent impact based on intelligent models, but need human intervention.	The System identifies faults and subsequent impact based on manually defined rules, for example, identifying intermittent faults based on a frequency experience threshold and aggregating periodic alarms based on a period threshold.	Faults and impact need to be manually identified based on human expertise or through the execution of manual written procedures.

indosat

OVSConsoleFault RulesQuery AlarmsIncident OverviewFaultSpirit Execution View

MinorINC

[END SITE] RAN

Equipment Alarm: VSWR Over Threshold

TT Duration00:12:05

Demarcation

Locating

Rectification

Recovery

IP

Associate TicketsAssociated TicketsCorrelated AlarmsTroubleshooting ProgressAssociated CM WOsFault Details

No.	Alarm Name	Alarm Source	Site Name	First Occurred On	Cleared On	aggfaultclusterid	isaggrootalarm	Vendor	Domain	Alarm Sever
1	VSWR Over Threshold	PADAHERAN...	11PDG00...	2026-04-29 14:28:23	-	-	NA	Huawei	RAN	Minor

Handling Records

2026-04-29 16:29:38MBB FaultSpiritCompleted

Identification

Fault Alarm Correlation

Fault Scenario Identification

2026-04-29 16:29:38MBB FaultSpiritCompleted

Locating

Diagnostic Analysis

Location Summary

MIKKU

Google Chrome

DIOC Multi-Product WarRoom
~ MSH INCIDENT MANAGER: 1.
INC-20260429-00007741 [XL] Link Down
at ME 04PPN0034_UJUNG BATU_EP/PBR-

Agent auto identify the faults and impact

Sample Alarm: VSWR Over Threshold

Fault identification & Impact analysis - Processing Error



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Fault identification & Impact analysis	15%	How does the wireless network fault management system support fault identification & fault impact analysis in various fault scenarios?	The system identifies faults and subsequent impact based on intelligent models without the need for human intervention.	The system identifies faults and subsequent impact based on intelligent models, but need human intervention.	The System identifies faults and subsequent impact based on manually defined rules, for example, identifying intermittent faults based on a frequency experience threshold and aggregating periodic alarms based on a period threshold.	Faults and impact need to be manually identified based on human expertise or through the execution of manual written procedures.

indosat OWS Console Fault Rules Query Alarms Incident Overview FaultSpirit Execution View x INC

Minor INC-2 [SMALL HUB SITE] RAN Communication Alarm:Time Synchronization Failure TT Duration 15Day 15:34:55

Demarcation Locating Rectification Recovery

IP

Associate Tickets Associated Tickets Correlated Alarms Troubleshooting Progress Associated CM WOs Fault Details

No.	Order ID	Title(Create TT)	Ticket Status	Ticket Type	Operator(Cr...	Current Handler	current_phase	createtime
1	INC-2	[SMALL HUB SITE]					Process TT	2026-04-14 01:22:43

Query Alarms Incident Overview FaultSpirit Execution View INC

INC-2 Communication Alarm:Time S... -354hour(s) 27minute(s) Processor: HW_BO_Wireless/Front Office

Phase: Process TT Last Update Time: 2026-04-14 22:32:46

Trouble Ticket

Basic Information

General More Details Network Resources Service Affected Solution Time Link Info Logic serviceKeepAlive

Impacted Service

Affected Sites Number

Affected Site List [13SUB0027]

Initial Affected Site ...

Total Affected Site List

Total Affected Site N...

Affected Region WEST JAVA 5 Region WEST JAVA & CENTRAL JAWA

4 Circle JAYA Site Class B

Hub Type SMALL HUB SITE FTTH Site No

Impact Scope

Agent auto identify the faults and impact

Sample Alarm: Time Synchronization Failure

Fault identification & Impact analysis - Communication

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Fault identification & Impact analysis	15%	How does the wireless network fault management system support fault identification & fault impact analysis in various fault scenarios?	The system identifies faults and subsequent impact based on intelligent models without the need for human intervention.	The system identifies faults and subsequent impact based on intelligent models, but need human intervention.	The System identifies faults and subsequent impact based on manually defined rules, for example, identifying intermittent faults based on a frequency experience threshold and aggregating periodic alarms based on a period threshold.	Faults and impact need to be manually identified based on human expertise or through the execution of manual written procedures.

indosat OWS Console Incident Overview FaultSpirit Execution View

Minor INC-5 [SMALL HUB SITE] RAN-2G:GLT1 T:nokiaSolutionsAndNetworks:BTS O&M LINK FAILURE Probable RCA [Ethernet Physical (ETP... TT Duration 00:00:35

Demarcation Locating Rectification Recovery

IP

GLTE_LINGKAR_BAR...>41_LINGKAR...

Associate Tickets Associated Tickets Correlated Alarms Troubleshooting Progress Associated CM WOs Fault Details

Fault Description

BTS O&M LINK FAILURE

Service Impact

Fault impact 1 wireless physical site.
Impacted 5G NEs: 1

Root Cause

Diagnosis Summary

The fault is caused by Transmission issue

Handling Records

2026-04-29 15:53:39 MBB FaultSpirit Completed

Identification

Fault Alarm Correlation

Fault Scenario Identification

2026-04-29 15:53:39 MBB FaultSpirit Completed

Locating

Diagnostic Analysis

Location Summary

Agent auto identify the faults and impact

Sample Alarm: BTS O&M LINK FAILURE

Fault identification & Impact analysis - Environmental

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Fault identification & Impact analysis	15%	How does the wireless network fault management system support fault identification & fault impact analysis in various fault scenarios?	The system identifies faults and subsequent impact based on intelligent models without the need for human intervention.	The system identifies faults and subsequent impact based on intelligent models, but need human intervention.	The System identifies faults and subsequent impact based on manually defined rules, for example, identifying intermittent faults based on a frequency experience threshold and aggregating periodic alarms based on a period threshold.	Faults and impact need to be manually identified based on human expertise or through the execution of manual written procedures.

indosat OWS

Console

Incident Overview

FaultSpirit Execution View

Minor INC 904 [SMALL HUB SITE] RAN:PENGENGATTUMPAK_TB:Environmental Alarm:Mains Failure TT Duration 00:03:52

Demarcation Locating Rectification Recovery

Associate Tickets

Associated Tickets

Correlated Alarms

Troubleshooting Progress

Associated CM WOs

Fault Details

Fault Description

Mains Failure

Service Impact

Fault impact 1 wireless physical site. Impacted 2G NEs: 1

Outage Info

Root Cause

Diagnosis Summary

PLN shut down

Recommendation

Handling Records

2026-04-29 13:21:05 MBB FaultSpirit Completed

Identification

Fault Alarm Correlation

Fault Scenario Identification

2026-04-29 13:21:05 MBB FaultSpirit Completed

Locating

Diagnostic Analysis

Location Summary

Agent auto identify the faults and impact

Sample Alarm: Mains Failure

Fault identification & Impact analysis - Security



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Fault identification & Impact analysis	15%	How does the wireless network fault management system support fault identification & fault impact analysis in various fault scenarios?	The system identifies faults and subsequent impact based on intelligent models without the need for human intervention.	The system identifies faults and subsequent impact based on intelligent models, but need human intervention.	The System identifies faults and subsequent impact based on manually defined rules, for example, identifying intermittent faults based on a frequency experience threshold and aggregating periodic alarms based on a period threshold.	Faults and impact need to be manually identified based on human expertise or through the execution of manual written procedures.

Certificate Invalid

Major

🕒

2026-04-14 10:54:37

|

Overview

Associated ...

Diagnosis D...

Lifecycle

Alarm Rema...

IVR Result ...

RCA Process...

Brief

Device Name

--

NE Type

SRAN

Vendor

Huawei

Alarm Location Info

Possible Cause

--

Summary

FM auto identify the faults
Sample Alarm: Certificate Invalid

Minor

INC

[SMALL HUB SITE] RAN-4G-GLTE_SIMPANG_MEO_PL.nokiaSolutionsAndNetworks:BASE STATION HARDWARE PROBLEM-Nokia M...

Demarcation

Locating

Rectification

Recovery

[SMALL HUB SITE] RAN-4G-GLTE_SIMPANG_MEO_PL.nokiaSolutionsAndNetworks:BASE STATION HARDWARE PROBLEM-Nokia MN BTS SFP validation failure

IP

Associate Tickets

Associated Tickets

Correlated Alarms

Troubleshooting Progress

Associated CM WOs

Fault Details

Escalation Logs

Fault Description

Service Impact

Fault impact 1 wireless physical site.

Impacted 4G NEs: 1

Outage Info

Root Cause

Diagnosis summary

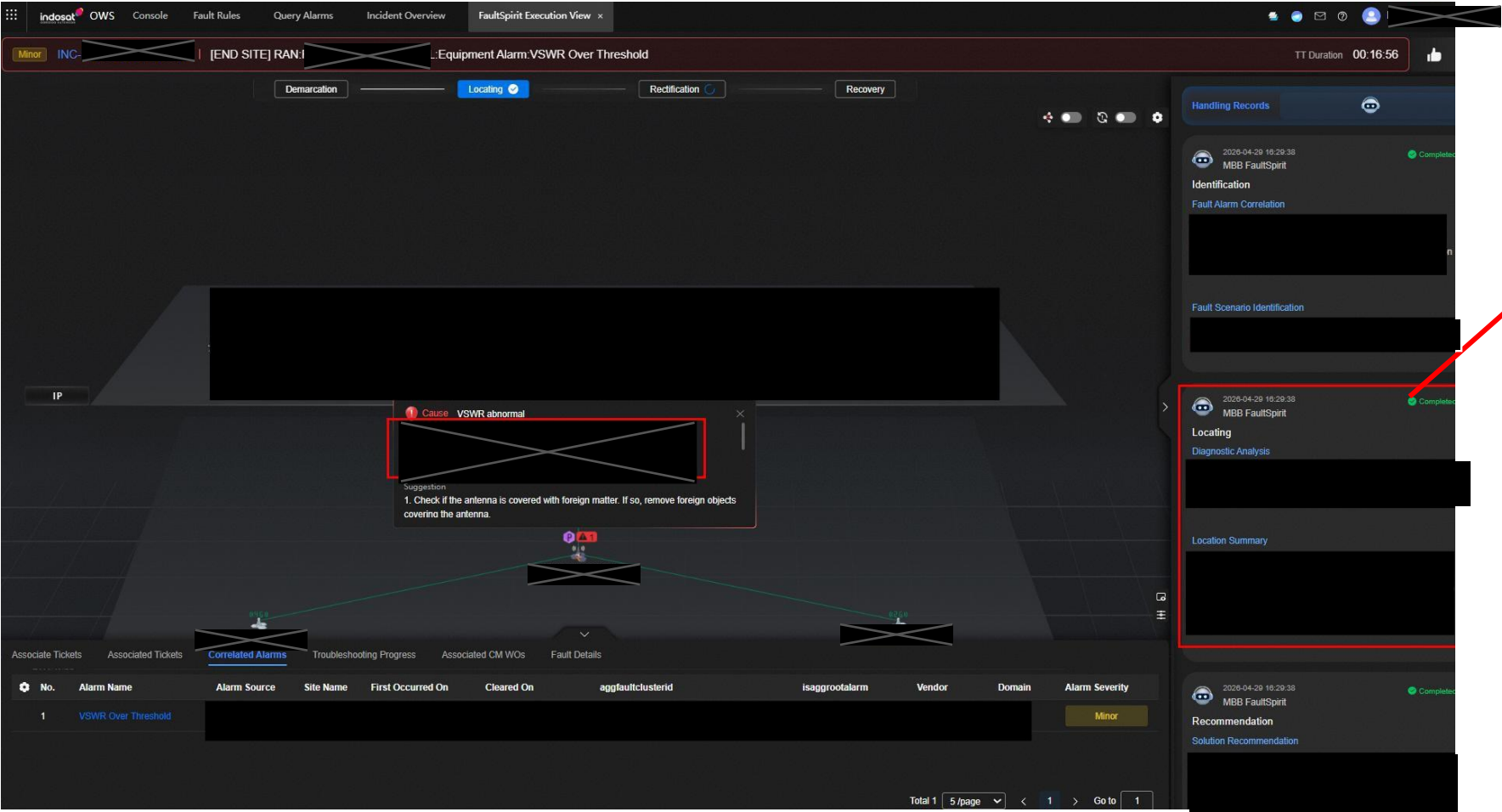
No diagnosis data

Recommendation

Agent identify the impact sites.

Demarcation & Locating - Equipment

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Demarcation & Locating	20%	How does the wireless network fault management system support root cause diagnosis and fault locating in various fault scenarios? Note1: The root cause diagnosis and fault locating shall require the ability to locate smallest field replaceable unit, upgradable software modules and connectors so that a repair solution can be quickly determined. e.g, Optical module, fiber optic cable and optical connectors.	The system demarcates and locates faults based on intelligent models without the need for human intervention.	The system demarcates the fault or locates multiple causes based on intelligent models, but the human intervention is required.	The system demarcates and locates faults based on manually defined rules (such as experience-based fault trees and troubleshooting processes) and needs human intervention.	Fault diagnosis needs to be manually performed based on expertise.



Auto demarcates and locates fault

Sample Alarm: VSWR Over Threshold

Demarcation & Locating - Processing Error

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Demarcation & Locating	20%	How does the wireless network fault management system support root cause diagnosis and fault locating in various fault scenarios? Note1: The root cause diagnosis and fault locating shall require the ability to locate smallest field replaceable unit, upgradable software modules and connectors so that a repair solution can be quickly determined. e.g, Optical module, fiber optic cable and optical connectors.	The system demarcates and locates faults based on intelligent models without the need for human intervention.	The system demarcates the fault or locates multiple causes based on intelligent models, but the human intervention is required.	The system demarcates and locates faults based on manually defined rules (such as experience-based fault trees and troubleshooting processes) and needs human intervention.	Fault diagnosis needs to be manually performed based on expertise.

indosat OWS

Console

Fault Rules

Query Alarms

Incident Overview

FaultSpiral Execution View

INC-20260428-00017144

Minor

INC

[SMALL HUB SITE] RAN: [REDACTED] munication Alarm:Time Synchronization Failure

TT Duration 15Day 15:34:55

Demarcation

Locating

Rectification

Recovery

IP

Associate Tickets

Associated Tickets

Correlated Alarms

Troubleshooting Progress

Associated CM WOs

Fault Details

No.	Order ID	Title(Create TT)	Ticket Status	Ticket Type	Operator(Cr...	Current Handler	current_phase	createtime
1	INC-20260414-00001118	[SMALL HUB SITE] RAN: [REDACTED]	Running	P	user:System	group:HW_BO_Wireless:group...	Process TT	2026-04-14 01:22:43

Time Synchronization Failure

Minor

2026-04-13 22:32:28

Overview

Associated ...

Diagnosis ...

Lifecycle

Alarm Rema...

IVR Result ...

RCA Process...

No Recovery

0

--

Fault Cluster ID

aggconfidence

isagg...

--

0

--

Affected sites

0

--

Diagnosis Result Details

Diagnosis Reason

Recommended Reason

Configuration

--

Suggestion

Suggest check Configuration issues.

Key Information

Recovery Status

Recovery Summary

Operator

--

--

--

system

Processing Logs

2026-04-14 01:22:43 The diagnosis result is finish back, the diagnosis status is 2(diagnosis successful)

Auto demarcates and locates fault

Sample Alarm: Time Synchronization Failure

Demarcation & Locating - Communications

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Demarcation & Locating	20%	How does the wireless network fault management system support root cause diagnosis and fault locating in various fault scenarios? Note1: The root cause diagnosis and fault locating shall require the ability to locate smallest field replaceable unit, upgradable software modules and connectors so that a repair solution can be quickly determined. e.g, Optical module, fiber optic cable and optical connectors.	The system demarcates and locates faults based on intelligent models without the need for human intervention.	The system demarcates the fault or locates multiple causes based on intelligent models, but the human intervention is required.	The system demarcates and locates faults based on manually defined rules (such as experience-based fault trees and troubleshooting processes) and needs human intervention.	Fault diagnosis needs to be manually performed based on expertise.

MinorINC-202

[SMALL HUB SITE] RAN-2G

BTS O&M LINK FAILURE Probable...

TT Duration00:00:35

Demarcation

Locating

Rectification

Recovery

IP

Associate Tickets

Associated Tickets

Correlated Alarms

Troubleshooting Progress

Associated CM WOs

Fault Details

Fault Description

BTS O&M LINK FAILURE

Service Impact

Fault impact 1 wireless physical site.
Impacted 5G NEs: 1

Outage Info

Not in outage state.

Root Cause

Diagnosis summary

Handling Records

2026-04-29 15:53:39

MBB FaultSpir

Completed

Identification

Fault Alarm Correlation

Fault Scenario Identification

Statistics of all correlated alarms show they belong to the same site, identifying this fault as a single-site fault

2026-04-29 15:53:39

MBB FaultSpir

Completed

Locating

Diagnostic Analysis

Location Summary

2026-04-29 15:53:39

MBB FaultSpir

Completed

Auto demarcates and locates fault

Sample Alarm: BTS O&M LINK FAILURE

Demarcation & Locating - Environmental



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Demarcation & Locating	20%	How does the wireless network fault management system support root cause diagnosis and fault locating in various fault scenarios? Note1: The root cause diagnosis and fault locating shall require the ability to locate smallest field replaceable unit, upgradable software modules and connectors so that a repair solution can be quickly determined. e.g, Optical module, fiber optic cable and optical connectors.	The system demarcates and locates faults based on intelligent models without the need for human intervention.	The system demarcates the fault or locates multiple causes based on intelligent models, but the human intervention is required.	The system demarcates and locates faults based on manually defined rules (such as experience-based fault trees and troubleshooting processes) and needs human intervention.	Fault diagnosis needs to be manually performed based on expertise.

indosat

OWS

Tracker

Query Alarms

Export Alarms

Fault Rules

Incident Overview

FaultSpirit Execution View

Minor

INC

4

[SMALL HUB SITE] RAN:f

PAK

TB:Environmental Alarm:Mains Failure

TT Duration 00:03:52

Demarcation

Locating

Rectification

Recovery

IP

Wireless

Associate Tickets

Associated Tickets

Correlated Alarms

Troubleshooting Progress

Associated CM WOs

Fault Details

Handling Records

2025-04-29 13:21:05

MBB FaultSpirit

Completed

Identification

Fault Alarm Correlation

2025-04-29 13:21:05

MBB FaultSpirit

Completed

Locating

Diagnostic Analysis

2025-04-29 13:21:05

MBB FaultSpirit

Completed

Recommendation

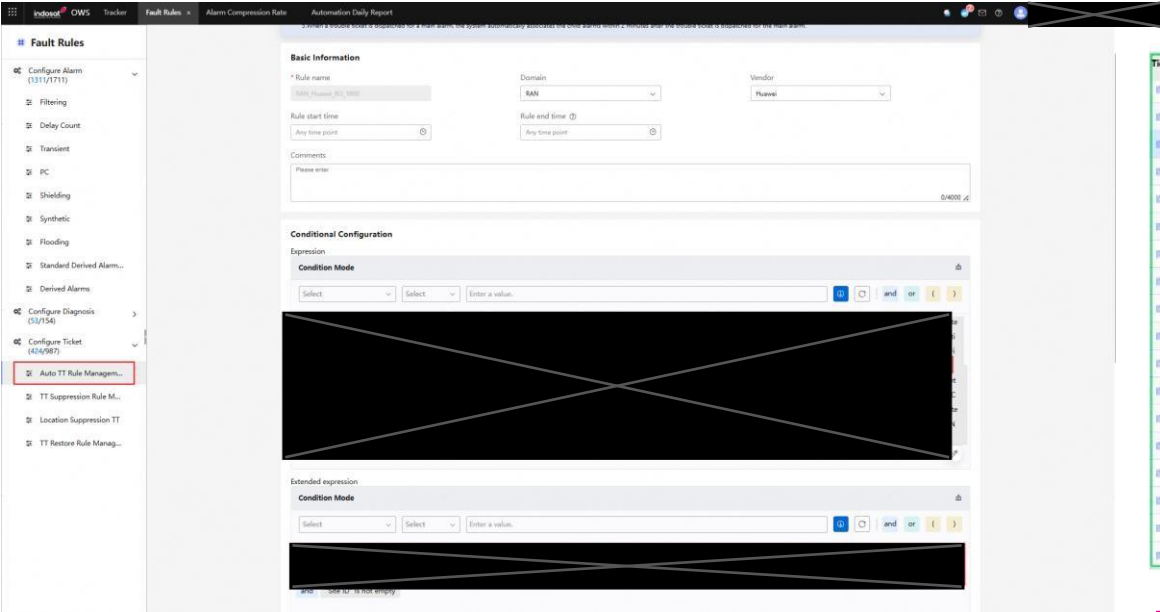
Solution Recommendation

Auto demarcates and locates fault

Sample Alarm: Mains Failure

Demarcation & Locating - Security

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Demarcation & Locating	20%	How does the wireless network fault management system support root cause diagnosis and fault locating in various fault scenarios? Note1: The root cause diagnosis and fault locating shall require the ability to locate smallest field replaceable unit, upgradable software modules and connectors so that a repair solution can be quickly determined. e.g, Optical module, fiber optic cable and optical connectors.	The system demarcates and locates faults based on intelligent models without the need for human intervention.	The system demarcates the fault or locates multiple causes based on intelligent models, but the human intervention is required.	The system demarcates and locates faults based on manually defined rules (such as experience-based fault trees and troubleshooting processes) and needs human intervention.	Fault diagnosis needs to be manually performed based on expertise.



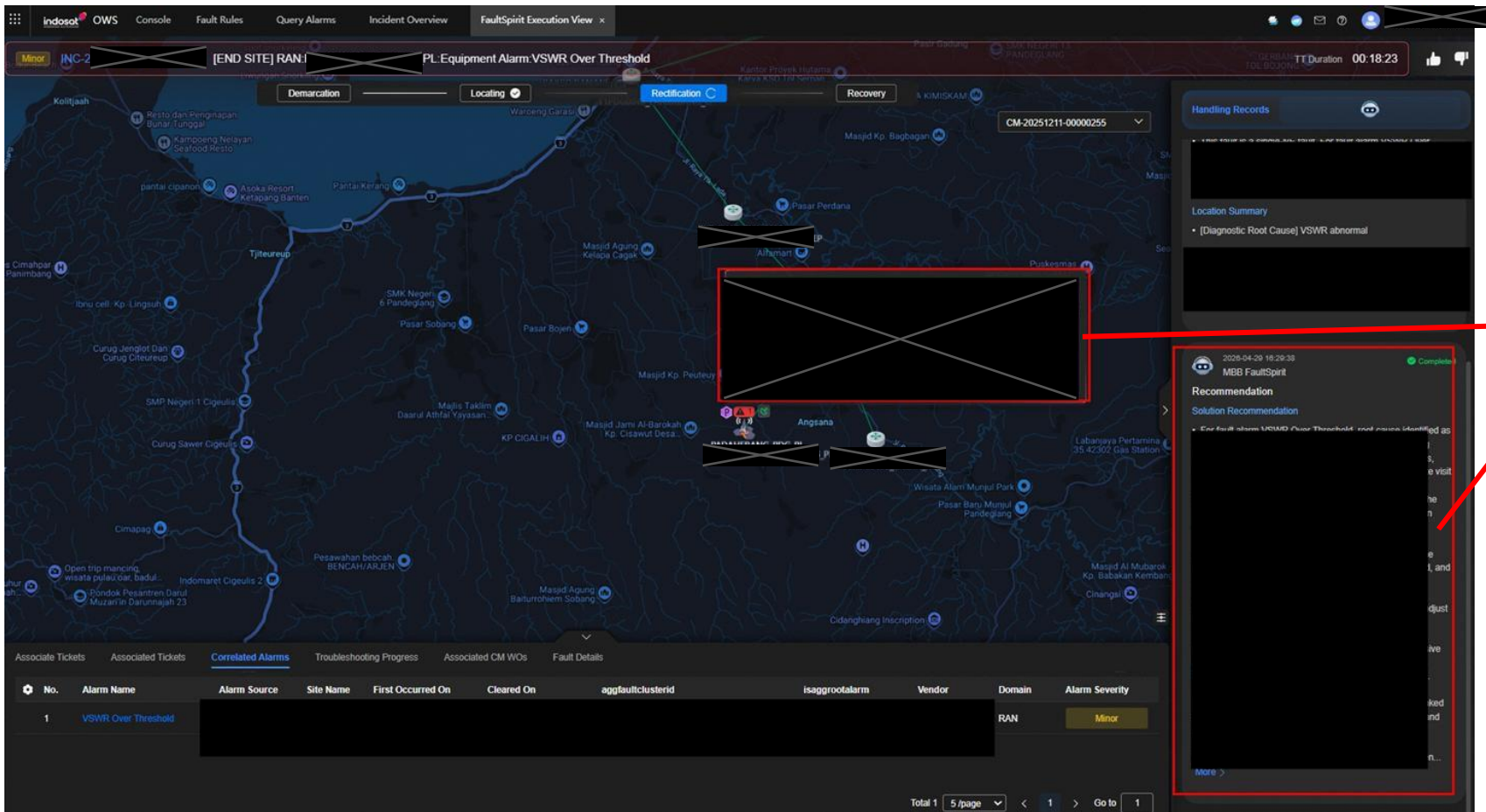
Ticket ID	Alarm Severity	Alarm Name	Alarm ID	Alarm SN	Site Name	Alarm Source	First Occurred On	Last Occurred On	Alarm Location Info	Clearance Status
INC-20260414-00009425	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00020643	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00016526	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00007238	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00014405	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00014491	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00013760	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00000408	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00010095	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00015636	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00009614	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00009614	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00009425	Major	Certificate Invalid	26841							Cleared
INC-20260414-00008459	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00007238	Major	Certificate Invalid	26841							Cleared
INC-20260414-00001171	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00000408	Major	Certificate Invalid	26841							Cleared
INC-20260413-00029211	Major	Certificate Invalid	26841							Uncleared

Demarcates and locates faults based on manually defined rules

Sample Alarm: Certificate Invalid

Solution generation - Equipment

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Solution generation	10%	How does the wireless network fault management system support generation of fault recovery solutions in various scenarios? Note1: Fault recovery solutions includes: the executable commands/ scripts for the remote faults that can be remotely recovered; or, On-site repair operation instructions for faults that require on-site handling. Note: 2: The examples of the fault recovery solutions can be the remote recovery solution, neighboring cell RF compensation recovery solution .	The system generates one or multiple possible fault recovery or fault rectification solutions based on intelligent model without the need for human intervention.	The system generates multiple possible fault recovery or rectification solutions based on intelligent model, but need human intervention.	The system generates one or multiple possible fault recovery or rectification solutions based on manually defined rules and need human intervention.	Fault recovery or rectification solutions needs to be manually generated based on expertise.



The screenshot displays the Indosat OWS console interface. At the top, there are navigation tabs: OWS, Console, Fault Rules, Query Alarms, Incident Overview, and FaultSpirit Execution View. The main area shows a map with a fault location marked by a red box. The fault is labeled "PL Equipment Alarm: VSWR Over Threshold". Below the map, there is a table of "Correlated Alarms" with columns: No., Alarm Name, Alarm Source, Site Name, First Occurred On, Cleared On, aggtaultclusterid, isaggrootalarm, Vendor, Domain, and Alarm Severity. The first row shows an alarm with ID 1, named "VSWR Over Threshold", from source "RAN", with severity "Minor".

Auto Solution Generation

Sample Alarm: VSWR Over Threshold

Solution generation - Processing Error

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Solution generation	10%	How does the wireless network fault management system support generation of fault recovery solutions in various scenarios? Note1: Fault recovery solutions includes: the executable commands/ scripts for the remote faults that can be remotely recovered; or, On-site repair operation instructions for faults that require on-site handling. Note: 2: The examples of the fault recovery solutions can be the remote recovery solution, neighboring cell RF compensation recovery solution .	The system generates one or multiple possible fault recovery or fault rectification solutions based on intelligent model without the need for human intervention.	The system generates multiple possible fault recovery or rectification solutions based on intelligent model, but need human intervention.	The system generates one or multiple possible fault recovery or rectification solutions based on manually defined rules and need human intervention.	Fault recovery or rectification solutions needs to be manually generated based on expertise.

indosat OWS

Console

Fault Rules

Query Alarms

Incident Overview

FaultSpirit Execution View x

INC-20260428-00017144

Minor

INC-20260414-00001118

[SMALL HUB SITE] RAN:PATOKBEUSI_EP:Communication Alarm:Time Synchronization Failure

TT Duration 15Day 15:34:55

Demarcation

Locating

Rectification

Recovery

IP

This Time Synchronization Failure is caused by by Configuration issue. Time Source Type .
Suggestion
Suggest check Configuration Issues.

Associate Tickets

Associated Tickets

Correlated Alarms

Troubleshooting Progress

Associated CM WOs

Fault Details

No.	Order ID	Title(Create TT)	Ticket Status	Ticket Type	Operator(Cr...	Current Handler	current_phase	createtime
1	INC							2026-04-14 01:22:43

Auto Solution Generation

Sample Alarm: Time Synchronization Failure

Solution generation - Communications

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Solution generation	10%	How does the wireless network fault management system support generation of fault recovery solutions in various scenarios? Note1: Fault recovery solutions includes: the executable commands/ scripts for the remote faults that can be remotely recovered; or, On-site repair operation instructions for faults that require on-site handling. Note: 2: The examples of the fault recovery solutions can be the remote recovery solution, neighboring cell RF compensation recovery solution .	The system generates one or multiple possible fault recovery or fault rectification solutions based on intelligent model without the need for human intervention.	The system generates multiple possible fault recovery or rectification solutions based on intelligent model, but need human intervention.	The system generates one or multiple possible fault recovery or rectification solutions based on manually defined rules and need human intervention.	Fault recovery or rectification solutions needs to be manually generated based on expertise.

indosat OWS

Tracker

Query Alarms

Export Alarms

Fault Rules

Incident Overview

FaultSpirit Execution View

Minor INC-5 | [SMALL HUB SITE] RAN-2G:GL | MT:nokiaSolutionsAndNetworks:BTS O&M LINK FAILURE Probable... TT Duration 00:00:35

Demarcation Locating Rectification Recovery

IP

Associate Tickets

Associated Tickets

Correlated Alarms

Troubleshooting Progress

Associated CM WOs

Fault Details

No.	Alarm Name	Alarm Sou...	Site Na...	First Occurred On	Cleared On	Vendor	Domain	Alarm Severity	Physical Port Name	Alarm SN	Fa
1	BTS O&M LINK FAILURE										
2	BCCH MISSING										
3	BCCH MISSING										

Total 6 5/page < 1 2 > Go to 1

Handling Records

2026-04-29 15:53:39 MBB FaultSpirit Completed

Locating

Diagnostic Analysis

• This f
FAILUR
device :

Location

• [Diag
issue.
Diagnos
Matche

Recom
Solution

• For fa
as Tran
solution
historica

• Recommended handling solution as follows: Please check the Transmission Issues.

2026-04-29 17:06:47 MBB FaultSpirit Completed

Fault Recovery

Auto Solution Generation

Sample Alarm: BTS O&M LINK FAILURE

Solution generation - Environmental

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Solution generation	10%	How does the wireless network fault management system support generation of fault recovery solutions in various scenarios? Note1: Fault recovery solutions includes: the executable commands/ scripts for the remote faults that can be remotely recovered; or, On-site repair operation instructions for faults that require on-site handling. Note: 2: The examples of the fault recovery solutions can be the remote recovery solution, neighboring cell RF compensation recovery solution.	The system generates one or multiple possible fault recovery or fault rectification solutions based on intelligent model without the need for human intervention.	The system generates multiple possible fault recovery or rectification solutions based on intelligent model, but need human intervention.	The system generates one or multiple possible fault recovery or rectification solutions based on manually defined rules and need human intervention.	Fault recovery or rectification solutions needs to be manually generated based on expertise.

Indosat

OWS

Tracker

Query Alarms

Export Alarms

Fault Rules

Incident Overview

FaultSpirit Execution View

Minor

INC-2

[SMALL HUB SITE]

Environmental Alarm:Mains Failure

TT Duration 00:04:51

Demarcation

Locating

Rectification

Recovery

IP

1. Check the MCB at KWH tripped or not;

2. Check PLN electricity supply status;

3. Deploy backup PG to site

Wireless

Handling Records

2026-04-29 13:15:42

MBB FaultSpirit

Completed

Locating

2026-04-29 17:24:22

MBB FaultSpirit

Completed

Fault Recovery

Fault Recovery Verification

Associate Tickets

Associated Tickets

Correlated Alarms

Troubleshooting Progress

Associated CM WOs

Fault Details

Auto Solution Generation

Sample Alarm: Mains Failure

Solution generation - Security

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Analysis	Solution generation	10%	How does the wireless network fault management system support generation of fault recovery solutions in various scenarios? Note1: Fault recovery solutions includes: the executable commands/ scripts for the remote faults that can be remotely recovered; or, On-site repair operation instructions for faults that require on-site handling. Note: 2: The examples of the fault recovery solutions can be the remote recovery solution, neighboring cell RF compensation recovery solution .	The system generates one or multiple possible fault recovery or fault rectification solutions based on intelligent model without the need for human intervention.	The system generates multiple possible fault recovery or rectification solutions based on intelligent model, but need human intervention.	The system generates one or multiple possible fault recovery or rectification solutions based on manually defined rules and need human intervention.	Fault recovery or rectification solutions needs to be manually generated based on expertise.

Ticket ID	Alarm Severity	Alarm Name	Alarm ID	Alarm SN	Site Name	Alarm Source	First Occured On	Last Occured On	Alarm Location Info	Clearance Status
INC-20260414-00009425	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00020843	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00016526	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00007238	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00014405	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00014491	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00013760	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00000408	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00010095	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00015636	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00009614	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00009614	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00009425	Major	Certificate Invalid	26841							Cleared
INC-20260414-00008459	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00007238	Major	Certificate Invalid	26841							Cleared
INC-20260414-00001171	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00000408	Major	Certificate Invalid	26841							Cleared
INC-20260413-00029211	Major	Certificate Invalid	26841							Uncleared

SAMPLE : Certificate Invalid
TT dispatch to BO RAN and need manually inject new certificate.

INC-20260519-00002092 Incident Ticket # [SMALL HUB SITE] RAN-00_MENYAN_CM Security Service Or Mechan...
Phase: Process TT | Last Update Time: 2026-05-20 02:00:28

Trouble Ticket

Basic Information

General

More Details

Network Resources

Service Affected

Solution

Time

Link Info

Logic

serviceKeepAlive

Title

Alarm Tag

Severity

Potential Severity

Fault First Occur Time

Fault Last Occur Time

Ticket ID

Create Scenario

Requestor Tracker

Network Type

Alarm ID

Alarm Name

Alarm Type

Acknowledgement

EMS

EMS Alarm No.

Trouble Source

TT Type

TT Category

Source Ticket ID

Service Interruption

Site Outage or No

Service Outage

Is Initial Diagnosis

VIP

First Collect On

Fault Recovery Time

TT Rule ID

Alarm Coding ID

TT Create Mode

Repeat Count

Evaluation and decision-making - Equipment



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Decision	Evaluation and decision-making	10%	How does the wireless network fault management system support evaluation and decision-making in various scenarios?	The system evaluates multiple possible recovery or rectification solutions and determines the optimal recovery or fault rectification solution based on intelligent models without the need for human intervention.	The system evaluates multiple possible recovery or rectification solutions and determines the optimal recovery or fault rectification solution based on intelligent models, but need human intervention.	The system evaluate and decide the fault recovery or fault rectification solution based on manually defined rules and need human intervention.	The fault recovery or fault rectification solution is manually evaluated and decided.

Auto evaluation – RF Unit RX Channel RTWP/RSSI Unbalanced

RF Unit RX Channel RTWP/RSSI Unbalanced

2026-04-10 09:20:52

OverviewAssociatedDiagnosisLifecycleAlarm Rema...IVR Result...RCA Process...

Key Information

Key Information

Recovery Execution-Faults Rectified

Recovery summary

system

Processing Logs

2026-04-10 09:45:18 - Recovery end, result is RF completed recovery operation on 2026-04-10 09:39:22. The RF Unit Fault recovered is cleared.

Confidence ScoreLow Score DescriptionCallerReasoning Process

RF Unit RX Channel RTWP/RSSI Unbalanced

1 Ha

2 Ph

3 Ph

4 Po

5 Re

6 Al

GeneralMore DetailsNetwork ResourcesService AffectedSolutionTimeLink InfoLogic

serviceKeepAlive

Probable Cause

Diagnosis TypeDiagnose Status

Diagnose Cause

Diagnose Keyinfo

Diagnose Summarye feeder or

Diagnose Suggestion

Evaluation and decision-making - Processing Error



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Decision	Evaluation and decision-making	10%	How does the wireless network fault management system support evaluation and decision-making in various scenarios?	The system evaluates multiple possible recovery or rectification solutions and determines the optimal recovery or fault rectification solution based on intelligent models without the need for human intervention.	The system evaluates multiple possible recovery or rectification solutions and determines the optimal recovery or fault rectification solution based on intelligent models, but need human intervention.	The system evaluate and decide the fault recovery or fault rectification solution based on manually defined rules and need human intervention.	The fault recovery or fault rectification solution is manually evaluated and decided.

Auto evaluation

External Clock Reference Problem

Time Synchronization Failure

2026-04-13 22:32:28

Overview

Associated ...

Diagnosis ...

Lifecycle

Alarm Rema...

IVR Result ...

RCA Process...

Diagnosis Summary

Diagnosis Result Details

Diagnosis Reason

Configuration

Recommended Reason

--

Diagnosis Summary (Complete)

Suggestion

Suggest check Configuration issues.

Key Information

--

Recovery Status

--

Recovery Summary

--

Operator

system

Processing Logs

Confidence Score

--

Low Score Description

--

Caller

--

Reasoning Process

--

1 T

2 H

3 C

Time Synchronization Failure

Evaluation and decision-making - Communication



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Decision	Evaluation and decision-making	10%	How does the wireless network fault management system support evaluation and decision-making in various scenarios?	The system evaluates multiple possible recovery or rectification solutions and determines the optimal recovery or fault rectification solution based on intelligent models without the need for human intervention.	The system evaluates multiple possible recovery or rectification solutions and determines the optimal recovery or fault rectification solution based on intelligent models, but need human intervention.	The system evaluate and decide the fault recovery or fault rectification solution based on manually defined rules and need human intervention.	The fault recovery or fault rectification solution is manually evaluated and decided.

BTS O&M LINK FAILURE

BTS O&M LINK FAILURE Major

2026-04-14 14:14:04

OverviewAssociated ...Diagnosis ...LifecycleAlarm Rema...IVR Result ...RCA Process...

Diagnosis Summary

Diagnosis Scheduled Time	Diagnosis Rule ID	Diagnosis Status	Diagnosis Type	Root Cause
2026-04-14 14:22:04	2508260001	Diagnosis is successful	Automatic diagnosis	Transmission
Recovery Status	Affected wireless sites	Diagnosis Suppression Pa...	Is Root Ne	Alarm Propagation Type
No Recovery	9	--	No	Symptom alarm
Fault Cluster ID				
aggconfidence	isaggrootalarm			
20	NA			
aggfaultclusterid				
AABD Pro Association Time	Affected sites			

INC-20260414-00020183 | Incident Ticket # [Agent Incident P TT] Critical 10 SITES DOWN UNDER SITE 208EK0054...

Phase: Process TT | Last Update Time: 2026-04-14 15:13:42

3.5h3hour(s) 5minute(s)

Processor: Front Office System

Trouble Ticket

Basic Information

GeneralMore DetailsNetwork ResourcesService AffectedSolutionTimeLink InfoLogicserviceKeepAlive

Title

Alarm Tag

Severity

Fault First Occur Time

Ticket ID

Requestor Tracker

Network Type

Alarm Name

Acknowledgement

EMS Alarm No.

TT Type

Source Ticket ID

Site Outage or No

VIP

Fault Recovery Time

TT Rule ID

Alarm Coding ID

TT Create Mode

Mains Failure

[illegible]

Evaluation and decision-making - Security

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Decision	Evaluation and decision-making	10%	How does the wireless network fault management system support evaluation and decision-making in various scenarios?	The system evaluates multiple possible recovery or rectification solutions and determines the optimal recovery or fault rectification solution based on intelligent models without the need for human intervention.	The system evaluates multiple possible recovery or rectification solutions and determines the optimal recovery or fault rectification solution based on intelligent models, but need human intervention.	The system evaluate and decide the fault recovery or fault rectification solution based on manually defined rules and need human intervention.	The fault recovery or fault rectification solution is manually evaluated and decided.

 **Certificate Invalid** Major

🕒 2026-04-14 10:54:37 |

Overview Associated ... Diagnosis D... Lifecycle Alarm Rema... IVR Result ... RCA Process... >

Brief

Device Name: -- NE Type: SRAN Vendor: Huawei

Alarm Location Info: [Redacted]

Possible Cause: --

Summary: [Redacted]

INC-2[Redacted]407 | Incident Ticket # [END SITE] RAN-5G-MI_SANTRI_CEMANI1_PK:Processing Error Alarm:...

Phase: Process TT | Last Update Time: 2026-05-20 00:26:28 | Processor: HW_BO_Wireless:Front Office

Trouble Ticket

✕ ⓘ + [Icons]

Basic Information

General More Details Network Resources Service Affected Solution Time Link Info Logic serviceKeepAlive

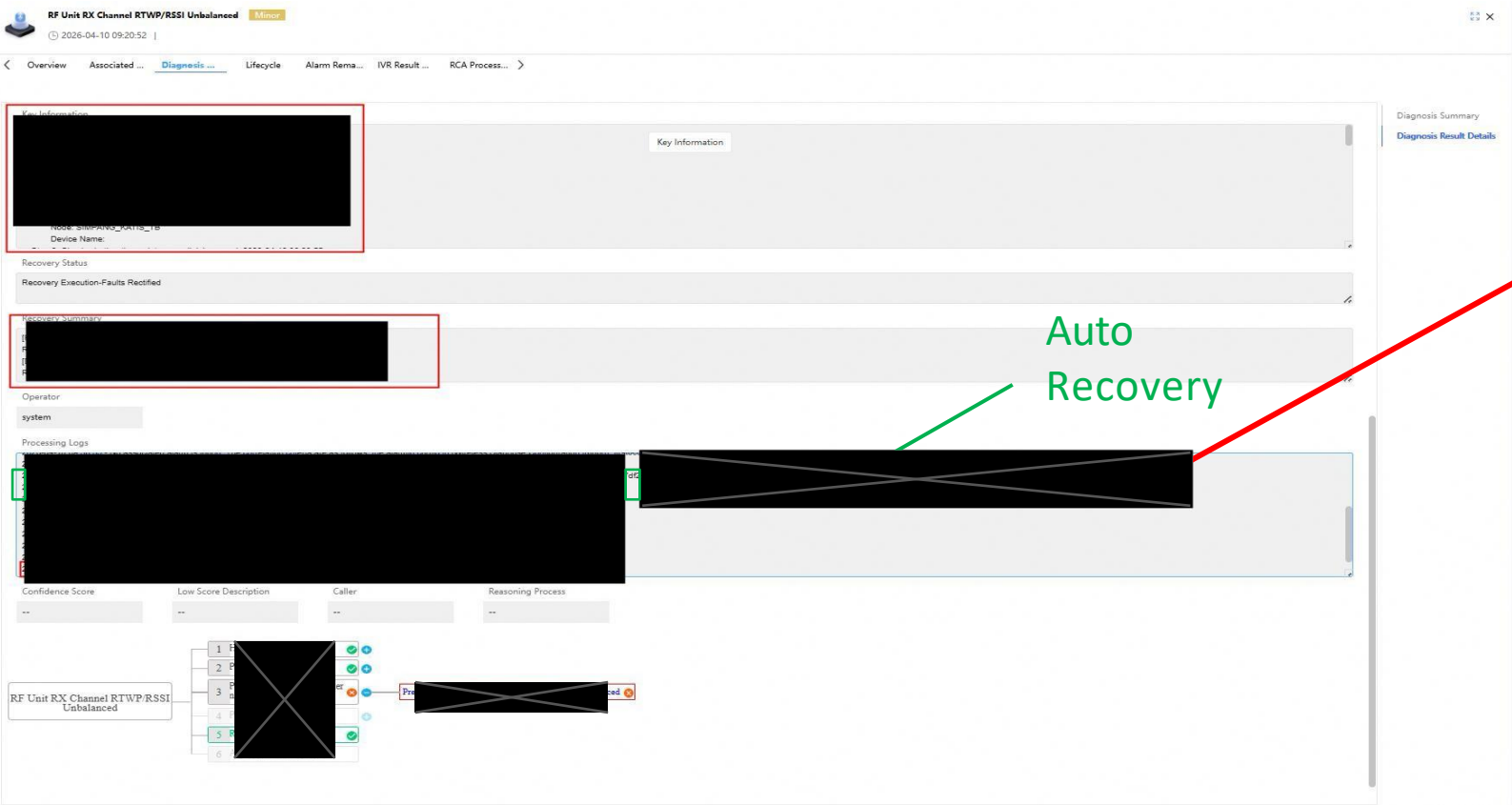
Probable Cause: [Redacted]

FM evaluates alarm based on defined rule specific problem

Solution implementation - Equipment



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Execution	Solution implementation	10%	How does the wireless network fault management system support automatic execution of: 1) Repair commands/ scripts for the faults that can be remotely recovered; 2) On-site repair instruction for the faults that on-site handling is necessary (such as power supply failure, board fault, fiber cut) to enable the human: - to query the recommended checklists to repair the fault. - to check the fault resolution effect and generate the fault repair report .	1) The system automatically executes the commands/ scripts for the fault that can be remotely recovered. 2) The system support intelligent on-site instruction for the faults that on-site handling is necessary, including support of: - Human leverages natural language to guide Copilot in query optimal troubleshooting checklists. - Human leverages natural language to guide Copilot to automatically verify that the fault is resolved and alarms are cleared, generate the fault repair report (including fill out the trouble ticket record).	Humans use the system to execute instructions. 1) The system executes commands/ scripts for the fault that can be remotely recovered with human confirmation. 2) The on-site handling are assisted by tool, but still requires assistance from NOC.	The recovery solution needs to be manually implemented 1) The recovery solution need to be manually implemented. 2) On-site handling is guided by NOC.	



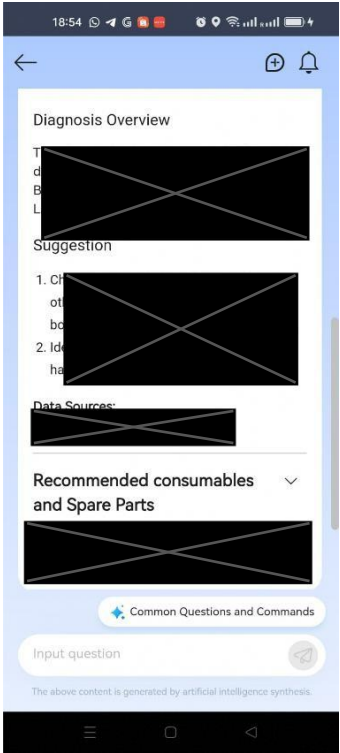
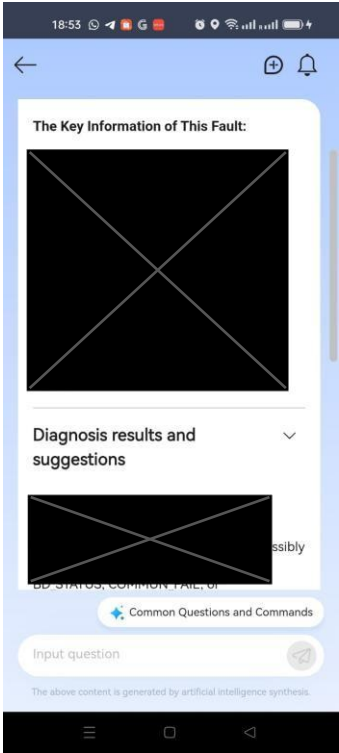
Auto Execution

Solution implementation - Equipment



Cognitive Activity (IAAE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Execution	Solution implementation	10%	How does the wireless network fault management system support automatic execution of: 1) Repair commands/ scripts for the faults that can be remotely recovered; 2) On-site repair instruction for the faults that on-site handling is necessary (such as power supply failure, board fault, fiber cut) to enable the human: - to query the recommended checklists to repair the fault. - to check the fault resolution effect and generate the fault repair report .	1) The system automatically executes the commands/ scripts for the fault that can be remotely recovered. 2) The system support intelligent on-site instruction for the faults that on-site handling is necessary, including support of: - Human leverages natural language to guide Copilot in query optimal troubleshooting checklists. - Human leverages natural language to guide Copilot to automatically verify that the fault is resolved and alarms are cleared, generate the fault repair report (including fill out the trouble ticket record).	Humans use the system to execute instructions. 1)The system executes commands/ scripts for the fault that can be remotely recovered with human confirmation. 2)The on-site handling are assisted by tool,but still requires assistance from NOC.	The recovery solution needs to be manually implemented 1) The recovery solution need to be manually implemented. 2) On-site handling is guided by NOC.	

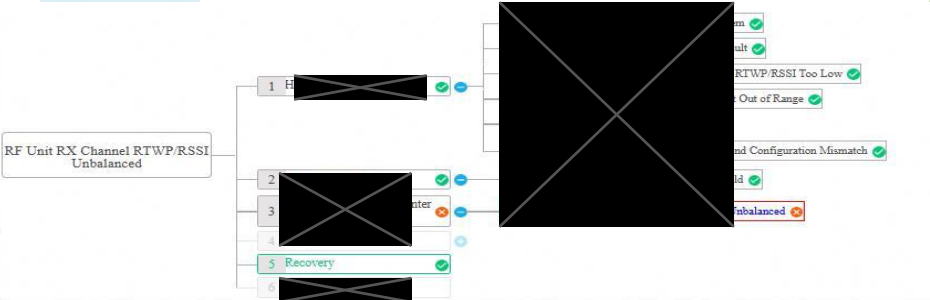
SAMPLE : ALD Hardware Fault



Auto FME Mate Support

Solution implementation - Processing Error

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Execution	Solution implementation	10%	How does the wireless network fault management system support automatic execution of: 1) Repair commands/ scripts for the faults that can be remotely recovered; 2) On-site repair instruction for the faults that on-site handling is necessary (such as power supply failure, board fault, fiber cut) to enable the human: - to query the recommended checklists to repair the fault. - to check the fault resolution effect and generate the fault repair report .	1) The system automatically executes the commands/ scripts for the fault that can be remotely recovered. 2) The system support intelligent on-site instruction for the faults that on-site handling is necessary, including support of: - Human leverages natural language to guide Copilot in query optimal troubleshooting checklists. - Human leverages natural language to guide Copilot to automatically verify that the fault is resolved and alarms are cleared, generate the fault repair report (including fill out the trouble ticket record).	Humans use the system to execute instructions. 1) The system executes commands/ scripts for the fault that can be remotely recovered with human confirmation. 2) The on-site handling are assisted by tool, but still requires assistance from NOC.	The recovery solution needs to be manually implemented 1) The recovery solution need to be manually implemented. 2) On-site handling is guided by NOC.	



Diagnosis Cause

Stage Of Diagnosis Cause

Diagnosis Failed Type

Diagnosis Failed Reason

Suggestion

Recovery Status

Recovery Failed/Not Recovered Type

Recovery Failed/Not Recovered Reason

Whether Alarm Cleared After Recovery

Recovery Duration

Physical Install...

Pre-parse

Services will b...

1. Check for i...

2. Check what...

3. If the alarm...

Recovery execut...

Yes

Diagnosis Result

Recovery status:

Recovery execution-faults rectified

Diagnosis summary:

RF Unit RX Channel RTWP/RSSI Unbalanced is caused by improper installation of

Recovery summary:

[Recovery Result]

Suggestion:

Services will be affected during the following operations. It is advised to perform:

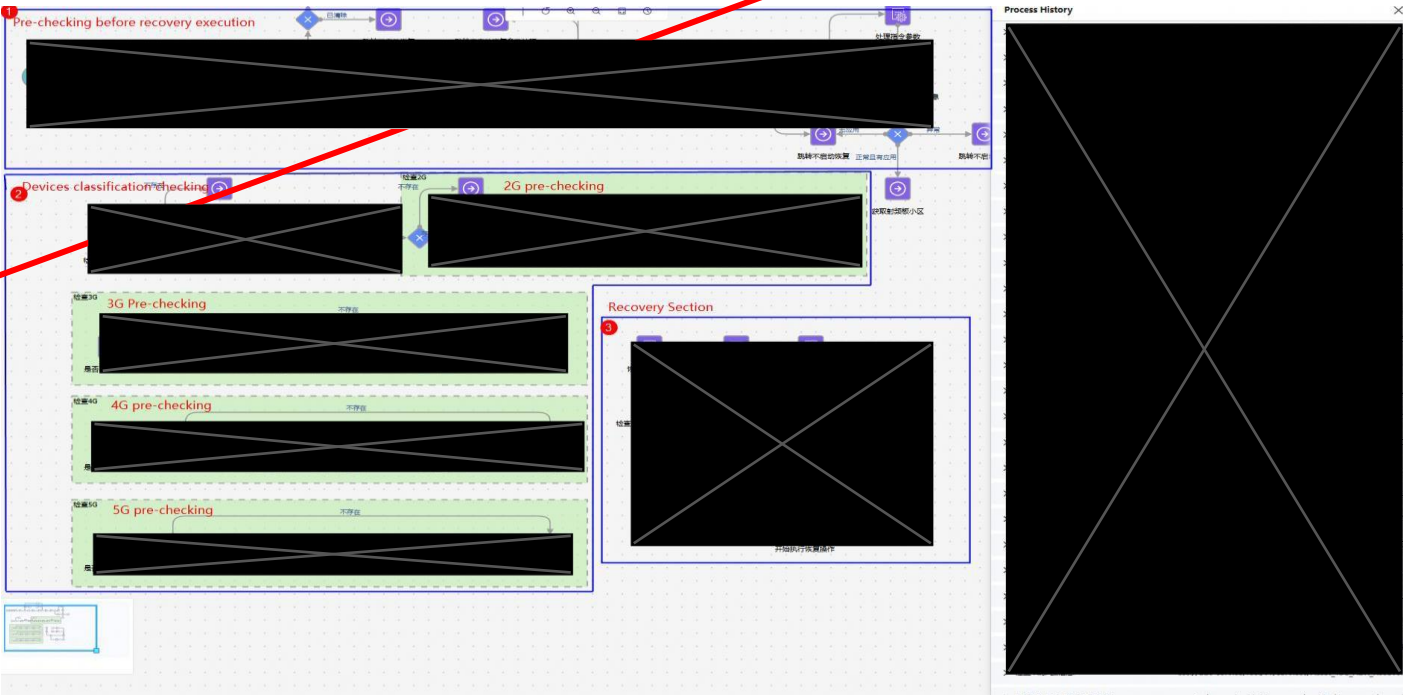
Key Info

Refer to Recovery_slip_log.txt

SAMPLE : RF Unit RX Channel RTWP/RSSI Unbalanced

On execution fault tree fires, have impact-check is output based on alarm correlation happen, stored on right side workflow log (Point 1)

Auto Execution

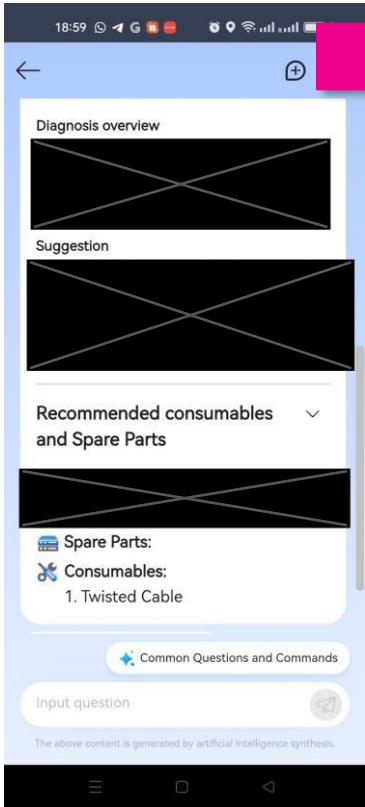
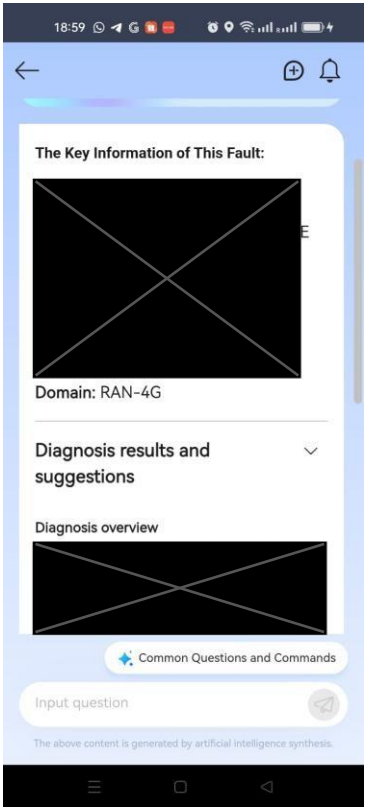


Solution implementation - Processing Error



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Execution	Solution implementation	10%	How does the wireless network fault management system support automatic execution of: 1) Repair commands/ scripts for the faults that can be remotely recovered; 2) On-site repair instruction for the faults that on-site handling is necessary (such as power supply failure, board fault, fiber cut) to enable the human: - to query the recommended checklists to repair the fault. - to check the fault resolution effect and generate the fault repair report .	1) The system automatically executes the commands/ scripts for the fault that can be remotely recovered. 2) The system support intelligent on-site instruction for the faults that on-site handling is necessary, including support of: - Human leverages natural language to guide Copilot in query optimal troubleshooting checklists. - Human leverages natural language to guide Copilot to automatically verify that the fault is resolved and alarms are cleared, generate the fault repair report (including fill out the trouble ticket record).	Humans use the system to execute instructions. 1)The system executes commands/ scripts for the fault that can be remotely recovered with human confirmation. 2)The on-site handling are assisted by tool,but still requires assistance from NOC.	The recovery solution needs to be manually implemented 1) The recovery solution need to be manually implemented. 2) On-site handling is guided by NOC.	

SAMPLE : BASE STATION SERVICE PROBLEM-No connection to unit



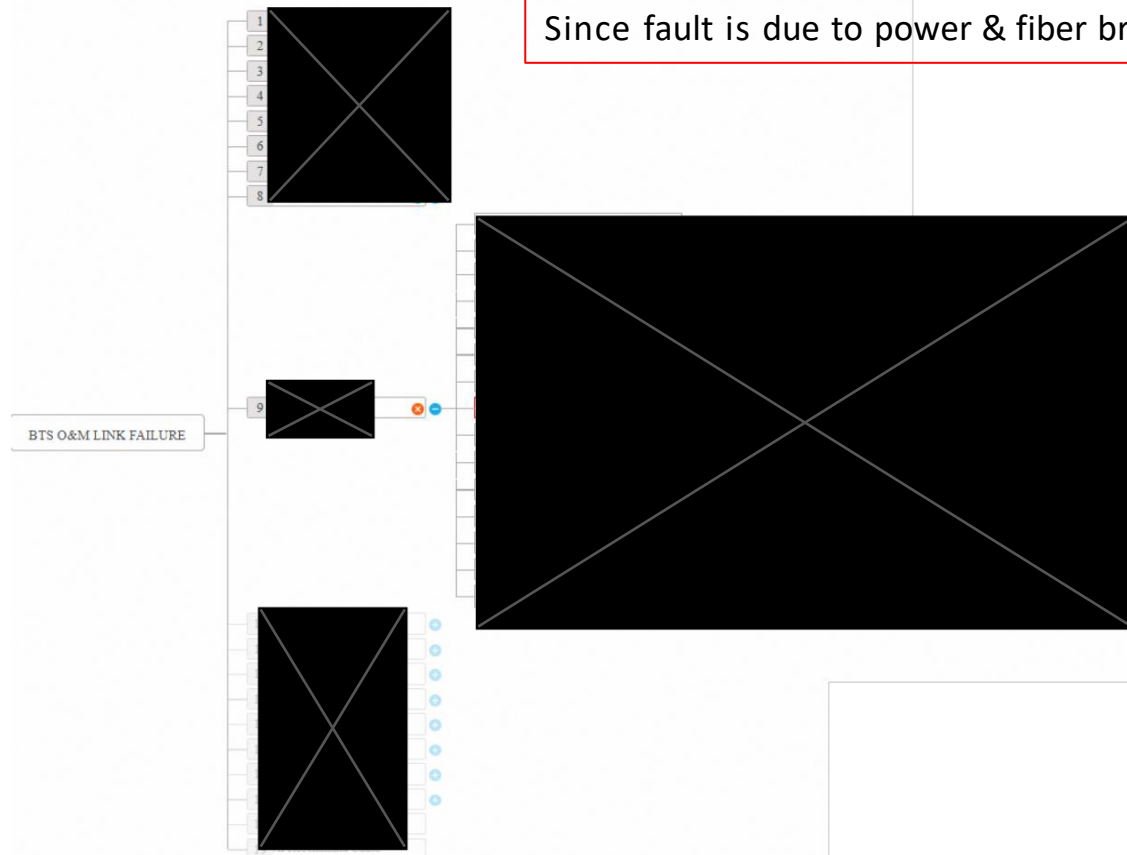
Auto FME Mate Support

Solution implementation - Communication

Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Execution	Solution implementation	10%	How does the wireless network fault management system support automatic execution of: 1) Repair commands/ scripts for the faults that can be remotely recovered; 2) On-site repair instruction for the faults that on-site handling is necessary (such as power supply failure, board fault, fiber cut) to enable the human: - to query the recommended checklists to repair the fault. - to check the fault resolution effect and generate the fault repair report .	1) The system automatically executes the commands/ scripts for the fault that can be remotely recovered. 2) The system support intelligent on-site instruction for the faults that on-site handling is necessary, including support of: - Human leverages natural language to guide Copilot in query optimal troubleshooting checklists. - Human leverages natural language to guide Copilot to automatically verify that the fault is resolved and alarms are cleared, generate the fault repair report (including fill out the trouble ticket record).	Humans use the system to execute instructions. 1)The system executes commands/ scripts for the fault that can be remotely recovered with human confirmation. 2)The on-site handling are assisted by tool,but still requires assistance from NOC.	The recovery solution needs to be manually implemented 1) The recovery solution need to be manually implemented. 2) On-site handling is guided by NOC.	

SAMPLE : BTS O&M Link Failure

Since fault is due to power & fiber break (transmission link) required on-site rectification



BTS O&M LINK FAILURE Major

🕒 2026-04-14 14:14:04 |

< Overview Associated ... Diagnosis ... Lifecycle Alarm Rema... IVR Result ... RCA Process... >

Diagnosis Summary

Diagnosis Scheduled Time	Diagnosis Rule ID	Diagnosis Status	Diagnosis Type	Root Cause
2026-04-14 14:22:04	2508260001	Diagnosis is successful	Automatic diagnosis	Transmission

Diagnosis Summary

Recovery Status	Affected wireless sites	Diagnosis Suppression Pa...	Is Root Ne	Alarm Propagation Type
No Recovery	9	--	No	Symptom alarm

Fault Cluster ID

aggconfidence	isaggrootalarm
20	NA

aggfaultclusterid

710418d7-5dcf-4e07-b21b-3b0a70fb8080

AABD Pro Association Time

2026-04-14 14:25:22

Affected sites

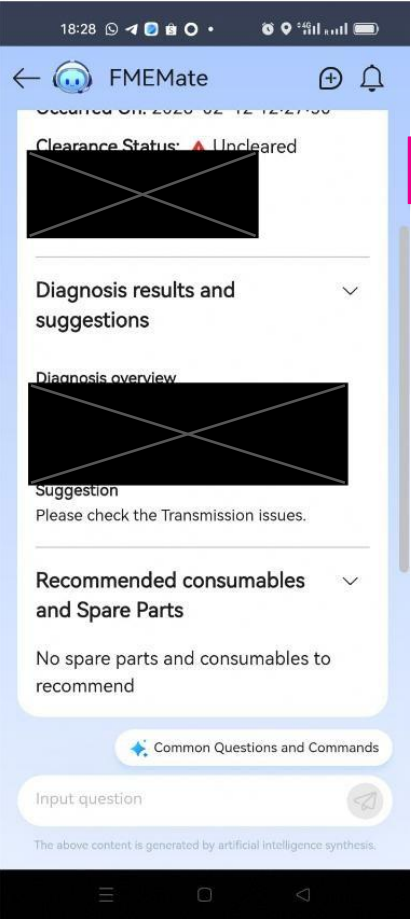
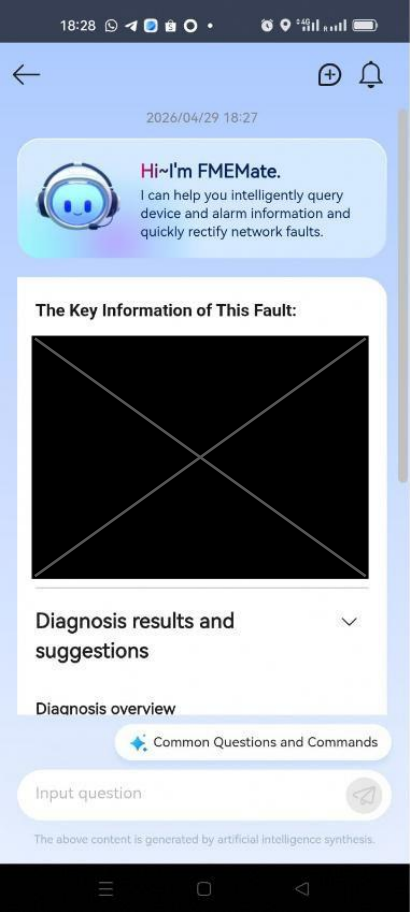
10

Solution implementation - Communication



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Execution	Solution implementation	10%	How does the wireless network fault management system support automatic execution of: 1) Repair commands/ scripts for the faults that can be remotely recovered; 2) On-site repair instruction for the faults that on-site handling is necessary (such as power supply failure, board fault, fiber cut) to enable the human: - to query the recommended checklists to repair the fault. - to check the fault resolution effect and generate the fault repair report .	1) The system automatically executes the commands/ scripts for the fault that can be remotely recovered. 2) The system support intelligent on-site instruction for the faults that on-site handling is necessary, including support of: - Human leverages natural language to guide Copilot in query optimal troubleshooting checklists. - Human leverages natural language to guide Copilot to automatically verify that the fault is resolved and alarms are cleared, generate the fault repair report (including fill out the trouble ticket record).	Humans use the system to execute instructions. 1)The system executes commands/ scripts for the fault that can be remotely recovered with human confirmation. 2)The on-site handling are assisted by tool,but still requires assistance from NOC.	The recovery solution needs to be manually implemented 1) The recovery solution need to be manually implemented. 2) On-site handling is guided by NOC.	

SAMPLE : BTS O&M Link Failure



Auto FME Mate Support

Solution implementation - Environmental



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Execution	Solution implementation	10%	How does the wireless network fault management system support automatic execution of: 1) Repair commands/ scripts for the faults that can be remotely recovered; 2) On-site repair instruction for the faults that on-site handling is necessary (such as power supply failure, board fault, fiber cut) to enable the human: - to query the recommended checklists to repair the fault. - to check the fault resolution effect and generate the fault repair report .	1) The system automatically executes the commands/ scripts for the fault that can be remotely recovered. 2) The system support intelligent on-site instruction for the faults that on-site handling is necessary, including support of: - Human leverages natural language to guide Copilot in query optimal troubleshooting checklists. - Human leverages natural language to guide Copilot to automatically verify that the fault is resolved and alarms are cleared, generate the fault repair report (including fill out the trouble ticket record).	Humans use the system to execute instructions. 1)The system executes commands/ scripts for the fault that can be remotely recovered with human confirmation. 2)The on-site handling are assisted by tool,but still requires assistance from NOC.	The recovery solution needs to be manually implemented 1) The recovery solution need to be manually implemented. 2) On-site handling is guided by NOC.	

SAMPLE : Mains Failure (External Alarm)
Since fault is due to Power_DG & PLN Power Off required on-site rectification



Mains Failure

2026-04-14 15:15:29

Overview

Associated

Diagnosis

Lifecycle

Alarm Rema...

IVR Result ...

RCA Process...

0626-04-14 13:05:07

0626-04-14 13:05:07

Diagnosis is successful

Automatic diagnosis

PLN power off

PLN shut down

No recovery

Affected wireless sites

Diagnosis Suppression Pa...

Is Root Ne

Alarm Propagation Type

Fault Cluster ID

aggconfidence

isaggrootalarm

0

--

No

NA

--

0

NA

aggfaultclusterid

AABD Pro Association Time

Affected sites

--

--

0

Diagnosis Result Details

Diagnosis Reason

Recommended Reason

Diagnosis Summary (Com...

--

PLN shut down

Suggestion

Key Information

Recovery Status

Recovery Summary

Operator

--

--

--

system

Processing Logs

Confidence Score

Low Score Description

Caller

Reasoning Process

--

--

--

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Mains Failure

1

2

3

4

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Solution implementation - Environmental

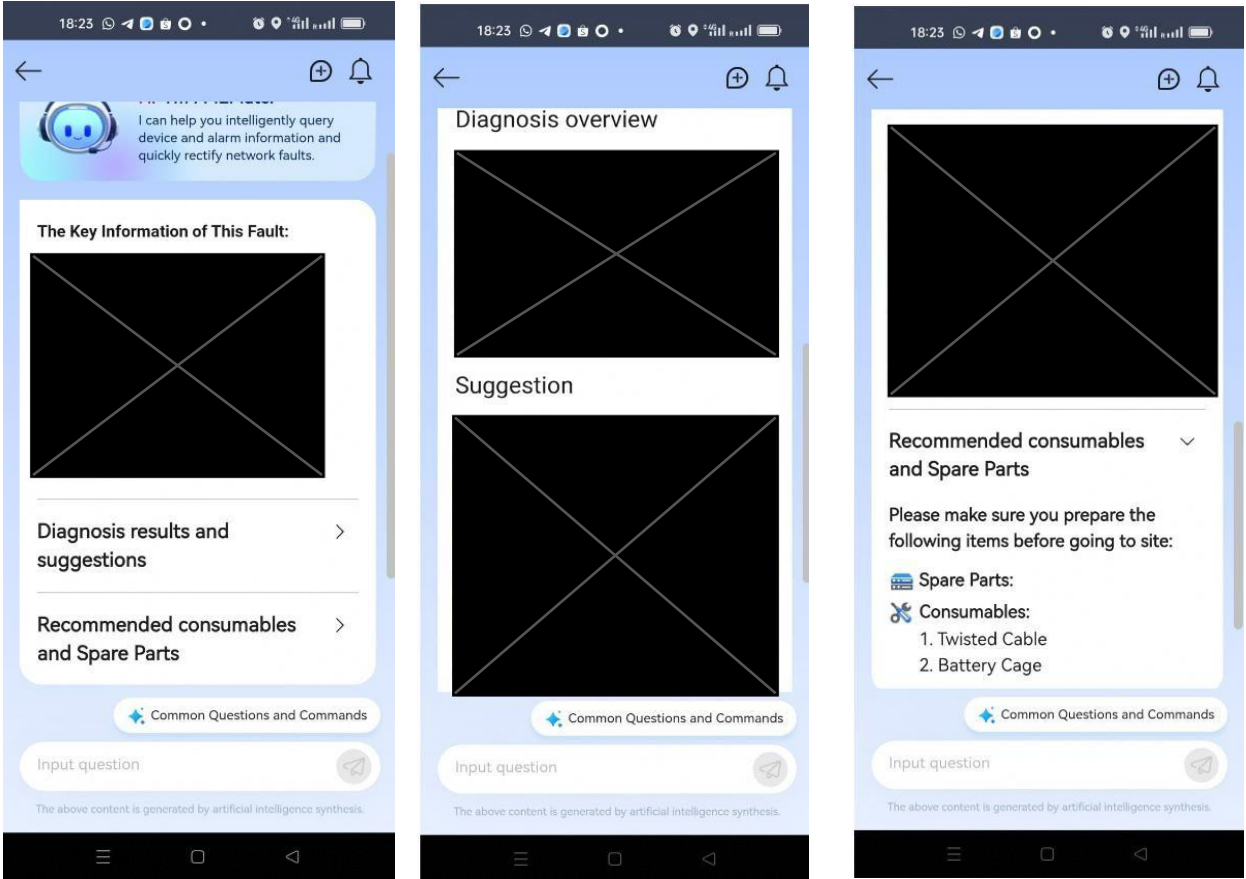


Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Execution	Solution implementation	10%	How does the wireless network fault management system support automatic execution of: 1) Repair commands/ scripts for the faults that can be remotely recovered; 2) On-site repair instruction for the faults that on-site handling is necessary (such as power supply failure, board fault, fiber cut) to enable the human: - to query the recommended checklists to repair the fault. - to check the fault resolution effect and generate the fault repair report .	1) The system automatically executes the commands/ scripts for the fault that can be remotely recovered. 2) The system support intelligent on-site instruction for the faults that on-site handling is necessary, including support of: - Human leverages natural language to guide Copilot in query optimal troubleshooting checklists. - Human leverages natural language to guide Copilot to automatically verify that the fault is resolved and alarms are cleared, generate the fault repair report (including fill out the trouble ticket record).	Humans use the system to execute instructions. 1)The system executes commands/ scripts for the fault that can be remotely recovered with human confirmation. 2)The on-site handling are assisted by tool,but still requires assistance from NOC.	The recovery solution needs to be manually implemented 1) The recovery solution need to be manually implemented. 2) On-site handling is guided by NOC.	

SAMPLE : Mains Failure
(External Alarm)

Since fault is due to
Power_DG & PLN Power Off
required on-site
rectification

SAMPLE : DC
Low Voltage



Auto FME Mate Support

Solution implementation - Security



Cognitive Activity (IAADE)	Service Capability	Weight	Questions	Option A	Option B	Option C	Option D
Execution	Solution implementation	10%	How does the wireless network fault management system support automatic execution of: 1) Repair commands/ scripts for the faults that can be remotely recovered; 2) On-site repair instruction for the faults that on-site handling is necessary (such as power supply failure, board fault, fiber cut) to enable the human: - to query the recommended checklists to repair the fault. - to check the fault resolution effect and generate the fault repair report .	1) The system automatically executes the commands/ scripts for the fault that can be remotely recovered. 2) The system support intelligent on-site instruction for the faults that on-site handling is necessary, including support of: - Human leverages natural language to guide Copilot in query optimal troubleshooting checklists. - Human leverages natural language to guide Copilot to automatically verify that the fault is resolved and alarms are cleared, generate the fault repair report (including fill out the trouble ticket record).	Humans use the system to execute instructions. 1)The system executes commands/ scripts for the fault that can be remotely recovered with human confirmation. 2)The on-site handling are assisted by tool,but still requires assistance from NOC.	The recovery solution needs to be manually implemented 1) The recovery solution need to be manually implemented. 2) On-site handling is guided by NOC.	

Ticket ID	Alarm Severity	Alarm Name	Alarm ID	Alarm SN	Site Name	Alarm Source	First Occured On	Last Occured On	Alarm Location Info	Clearance Status
INC-20260414-00009425	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00020843	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00016526	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00007238	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00014405	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00014491	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00013760	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00000408	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00010095	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00015636	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00009614	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00009614	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00009425	Major	Certificate Invalid	26841							Cleared
INC-20260414-00008459	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00007238	Major	Certificate Invalid	26841							Cleared
INC-20260414-00001171	Major	Certificate Invalid	26841							Uncleared
INC-20260414-00000408	Major	Certificate Invalid	26841							Cleared
INC-20260413-00029211	Major	Certificate Invalid	26841							Uncleared

SAMPLE : Certificate Invalid
TT dispatch to BO RAN and need manually inject new certificate.

Recovery solution need manually implemented

INC- Incident Ticket # [SMALL HUB SITE] RAN-00_MENYAN_CM Security Service Or Mecha...

Phase: Process TT | Last Update Time: 2026-05-20 02:00:28

Processor: HW_BO_WirelessFront Office

Trouble Ticket

Basic Information

General

More Details

Network Resources

Service Affected

Solution

Time

Link Info

Logic

serviceKeepAlive

Title

Alarm Tag

Severity

Fault First Occur Time

Ticket ID

Requestor Tracker

Network Type

Alarm Name

Acknowledgement ...

EMS Alarm No.

TT Type

Source Ticket ID

Site Outage or No

VIP

Fault Recovery Time

TT Rule ID

Alarm Coding ID

TT Create Mode

Potential Severity

Fault Last Occur Time

Create Scenario

Alarm ID

Alarm Type

EMS

Trouble Source

TT Category

Service Interruption ...

Service Outage

Is Initial Diagnosis

First Collect On

Minor

2026-05-19 02:00:45

INC-20260519-00002092

2G

74927264

RAN Alarm

Yes

No

2026-05-20 01:53:42

2312280012

1779130845000_bc5158bf8cc0461428516ddabf538415b7f5c86e2b9b81d609b5a44ac90b49b

AutoCreate

26841

Not defined

MAE6_100_91.254.5

FMSysstem

BO

No

No

2026-05-19 02:04:47

Repeat Count