

TENDER NOTICE

No. EA/02-37-2025

For Procurement of GNOC Unified Tool

- 1. Bids are invited from your esteemed Corporation for Providing GNOC Unified Tool in Afghanistan as per RFP Annexure. This bid Document is also available on the Etisalat website (www.etisalat.af, Tenders).
- 2. RFP Deadline is 31 July 2025 Afghanistan time.
- **3.** Bid received after the above deadline shall not be accepted.
- **4.** Bidders can provide either a sealed Hardcopy of the Proposal or a Softcopy of the Proposal through email. A hard copy can be submitted to Etisalat's Main office, Reception Desk (Tender Box). The softcopy shall be submitted through email (kshinwari@etisalat.af) and cc: (Ihsanullah@etisalat.af) and marked clearly with the **RFP name**, and **number**.
- 5. The bidder shall submit the proposal with separate (Technical and Commercial) parts. The commercial part must be password password-protected document for a softcopy of the proposal, and we will request the password once here the concerned committee opens bids (starts the bid's Commercial evaluation). The bids shall be first evaluated technically. Technical evaluation will be based on the conformity to required technical specifications and compliance matrix specified in the Bidding Documents. Only technically compliant bids that meet all the mandatory service-effecting requirements will be evaluated commercially.
- **6.** Etisalat Afghanistan reserves the right to accept or reject any or all bids and to annul the bidding process at any time, without thereby incurring any liability to the affected bidder(s) or any obligations to inform the affected bidder(s) of the grounds for Etisalat Afghanistan action.



7. All correspondence on the subject may be addressed to Ahmad Shikib Shalizi, Assistant Manager of Procurement, and Etisalat Afghanistan. Email kshinwari@etisalat.af and Phone No. +93781 1204948.

Ihsanullah Zirak

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(RFP)

For

Procurement of GNOC Unified Tool for Etisalat Afghanistan





1. DEFINITIONS

In this document, the following terms and meanings shall be interpreted as indicated:

1.1 Terms.

- "Acceptance Test(s) "means the test(s) specified in the Technical Specifications to be carried out to ascertain whether the Goods, Equipment, System, Material, Items or a specified part thereof is able to attain the Performance Level specified in the Technical Specifications in accordance with the provisions of the Contract.
- "Acceptance Test Procedures" means test procedures specified in the technical specifications and/or by the supplier and approved by EA as it is or with modifications.
- "Approved" or "approval" means approved in writing.
- "BoQ" stands for Bill of Quantities of each job/work as mentioned in this contract and its annexes according to which the contractor shall supply equipment & services and subject to change by agreement of both parties.
- "Bidding" means a formal procurement procedure under which sealed bids are invited, received, opened, examined and evaluated for the purpose of awarding a contract.
- "Bid/Tender Document" means the Bid/Tender documents issued by EA for invitation of Bids/Offers along with subsequent amendments and clarifications.
- "CIF" means "Cost Insurance Freight" as specified in INCOTERM 2010.
- "Competent Authority" means the staff or functionary authorized by EA to deal finally with the matter in issue.
- "Completion Date" means the date by which the Contractor is required to complete the Contract.
- "Country of Origin" means the countries and territories eligible under the rules elaborated in the "Instruction to Bidders".
- "Contract" means the Contract between Etisalat Afghanistan (EA) and the Contractor and comprising documents.
- "Contractor" means the individual or firm(s) ultimately responsible for supplying all the



Goods/Equipment/Systems/Material/Items on time and to cost under this contract to EA.

- "Contractor's Representative" means the person nominated by the contractor and named as such in the contract and approved by EA in the manner provided in the contract.
- "Contract Documents" means the documents listed in Article (Contract Documents) of the Form of Contract (including any amendments thereto) or in any other article in this contract.
- "Contract Price" means the price payable to the Contractor under the Contract for the full and proper performance of its contractual obligations.
- "Day" means calendar day of the Gregorian calendar.
- "Delivery charges" means local transportation, handling, insurance and other charges incidental to the delivery of Goods to their final destination.
- **"D.D.P"** means Delivered Duty Paid as defined in the Incoterms 2010 including the unloading responsibility of bidder/seller.
- "Effective Date" means the date the Contract shall take effect as mentioned in the Contract.
- "Etisalat Afghanistan (EA)" means the company registered under the Laws of Islamic Emirate of Afghanistan and having office at Ihsan Plaza Charahi Shaheed Kabul in person or any person dully authorised by it for the specific purpose for the specific task within the Contract and notified to contractor in writing.
- "Final Acceptance Certificate" means the certificate issued by EA after successful completion of warranty and removal of defects as intimated by EA.
- "Force Majeure" means Acts of God, Government restrictions, financial hardships, war and hostilities, invasion, act of foreign enemies, rebellion, revolution, riot, industrial disputes, commotion, natural disasters and other similar risks that are outside of Contractor's and EA's control.
- "Goods Receipt Certificate" means certificate issued by the consignee certifying receipt of Goods in good order and condition.
- "Liquidated Damages" mean the monetary damages imposed upon the contractor and the money payable to EA by the contractor on account of late delivery of the whole or part of the Goods.
- "L.o.A" means Letter of Award issued by EA to successful bidder with regard to the award of tender.
- "Month" means calendar month of the Gregorian calendar.
- "Offer" means the quotation/bid and all subsequent clarifications submitted by the Bidder and accepted

Dated: July 15, 2025



by EA in response to and in relation with the Bid Documents.

"Origin" means the place where the Goods are mined, grown or produced from which the ancillary services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

"EA's Representative" shall mean the representative to be appointed by EA to act for and on behalf of EA with respect to this Contract.

"Specifications" means the specifications, provided in the Contract and its annexure and in EA Tender Specifications and where the Contract is silent and in cases of conflicting specifications appearing in the documents, based on the latest version of ITU-T recommendations.

"Supplier/Vendor" (used interchangeably) means the individual or firm ultimately responsible for supplying all the Goods on time and to cost under this Contract acting individually alone or as a "prime contractor" for a consortium.

"Supplier's Representative" means the person nominated by the Contractor and named as such in the Contract and approved by EA in the manner provided in the Contract.

"Warranty Period" shall mean the period of 12 months or any extended period starting from the acceptance of the delivered Goods in good order and conditions at consignee's certified by EA authorized representative (s).

2. INTRODUCTION TO WORK.

2.1 Bids are invited for Procurement of GNOC Unified Tool in accordance with Etisalat specifications and Annexures.

3. Bill of Quantity (BoQ)

As per Annexure –A

4. Validity of Offers

The Tenders must be valid for a minimum of 90 days from the Tender closing date, or as may be



specified by Purchaser in the Tender documents.

5. Price and Payment Term

- **5.1** Payment shall be made by bank transfer after receipt of original Hardcopy of invoice.
- **5.2** Advance payment shall be not made to the contractor.
- **5.3** EA shall make prompt payment, within thirty days of submission of an invoice/claim by the contractor subject to availability of prerequisite documents specified under the contract and adjustment of penalty (if any) on account of late delivery and/or defective Goods replacement after confirmation from the Project Director.
- **5.4** Payments are subject to deduction of income tax at the prevalent rate from the relevant invoices of the contractor and paid to the Tax Authorities, except those especially exempted by the authorities. EA will issue a certificate of deductions to the contractor to enable him to settle tax returns with the concerned authorities.
- **5.5** Payments against the entire contract will be made by EA based on the contractor's ability to meet payment milestones as defined in the Bid Documents in the following manner.
 - **5.5.1** For Supply of Equipment (Hardware & Software);
 - **5.5.1.1** EA will make payment equal to 50% of the amount of equipment on the arrival of Equipment at site of installation and certification by EA Project Director/Manager of their receipt in good condition.
 - **5.5.1.2** Balance 50% of the amount of equipment will be paid on issuance of RFS for the complete system area in individual city.
 - **5.5.2** For Installation, Testing, Commissioning and Professional Services (if available).
 - **5.5.2.1** EA will make payment equal to 75% of amount of Services cost when equipment is offered for Acceptance Testing in individual city.
 - **5.5.2.2** Balance 25% of the amount of Services cost will be made at the time of issuance of final PAC for complete system in individual city.
 - 5.5.3 For System Support and Maintenance Services (if available).
 - **5.5.3.1** EA will make payment on quarterly basis at end of each quarter, after support/service is delivered.



7. Penalty:

7.1 If the contractor fails to complete the said job on or before the Completion Date, the Contractor shall pay to the Purchaser as and by way of Penalty resulting from the delay, the aggregate sum of one percent (1%) of Total Contract price of the delayed services for each week and pro-rata for parts of week, for delay beyond the specified date, subject to a maximum of ten percent (10%) of the Total Contract Price of the service(s). In the event that delay is only in respect of small items which do not affect the effective utilization of the system, penalty shall be chargeable only on the value of such delayed items.

7.2 Any penalty chargeable to the Contractor shall be deducted from the invoice amounts submitted by the Contractor for payment, without prejudice to the Purchaser's rights.

8. Construction of Contract:

The Contract shall he deemed to have been concluded in the Islamic Emirate of Afghanistan and shall be governed by and construed in accordance with Islamic Emirate of Afghanistan Law.

9. Termination of the Contract

9.1 If during the course of the Contract, the Contractor shall be in breach of the Contract and the Purchaser shall so inform the Contractor by notice in writing, and should the breach continue for more than seven days (or such longer period as may be specified by the Purchaser) after such notice then the Purchaser may immediately terminate the Contract by notice in writing to the Contractor.

9.2 Upon termination of the Contract the Purchaser may at his option continue work either by himself or by sub-contracting to a third party. The Contractor shall if so required by the Purchaser within 14 days of the date of termination assign to the Purchaser without payment the benefit to any agreement for services and/or the execution of any work for the purposes of this Contract. In the event of the services/jobs being completed and ready for utilization by the Purchaser or a third party and the total cost incurred by the Purchaser in so completing the required services/jobs being greater than which would have been incurred had the Contract not been terminated then the



Contractor shall pay such excess to the Purchaser.

- **9.3** The Contractor shall not have the right to terminate or abandon the Contract except for reasons of force majeure.
- 9.4 Etisalat has the right to terminate this Contract without cause at any time by serving a 30-day prior written notice to the Contractor.

10. Local Taxes, Dues and Levies:

- **10.1** The Contractor shall be responsible for all government related taxes, dues and levies, including personal income tax, which may be payable in the Afghanistan or elsewhere.
- **10.2** Withholding tax (if applicable) shall be deducted on local portion only as per prevailing rates as notified Islamic Emirate of Afghanistan. The amount of withholding Tax(s) is 2% of all project cost for local/registered companies who have Afghanistan Government Official Work License and 7% for International/ nonregistered companies.



Annexure-A

Technical Scope of Work (SoW) for Procurement of GNOC Unified Tool



1. Objective

The objective of this RFP is to procure and implement a comprehensive, AI-powered Centralized Monitoring and Management Platform that ensures unified visibility, real-time automation, and enhanced operational control across all network domains and infrastructure layers.

The proposed solution must fulfill the following objectives:

Centralized Monitoring

Provide an end-to-end, real-time consolidated monitoring solution across all domains including RAN, Core Network, Transport Network, OSS/BSS, IT infrastructure, Data Center, and Cloud environments. This should cover devices, services, and connectivity with full multi-vendor support.

Customizable Dashboards

Deliver highly visual, role-based dashboards tailored to different user levels (GNOC, engineers, IT admins, leadership), featuring live status widgets, KPIs, maps, and trend analytics.

Al-Driven Automated Ticketing Tool

Customizable Ticketing tool and include a smart trouble ticketing module that leverages AI for incident detection, root cause analysis, prioritization, auto-assignment, tracking, and resolution — fully integrated with asset and configuration management databases and

Video Wall Integration

Support visualization of real-time network health, alarms, traffic, and service KPIs on GNOC's video wall environment for 24/7 operational awareness and decision-making.

Automated Reporting

Provide on-demand and scheduled reporting capabilities including SLA reports, traffic/utilization trends, capacity forecasts, root cause summaries, and executive dashboards — all auto-generated and distributed via configurable channels.

Advanced Notification Mechanisms

Enable multi-channel notifications (SMS, email, chat tools) with escalation workflows, severity-based routing, and audit trails for alert response activities.

SLA Monitoring

Support real-time and historical SLA tracking and visualization for internal services and third-party providers. The system must proactively monitor uptime, latency, packet loss, and availability against defined SLAs, issuing alerts and generating SLA breach reports.



AI/ML-Driven Automation

Leverage AI/ML algorithms for predictive maintenance, anomaly detection, intelligent correlation, and automated remediation to proactively address issues before they impact services. The platform must also support intelligent capacity planning and continuous optimization.

This solution must align with Etisalat Afghanistan's operational excellence and first step for enabling zero-touch vison NOC operations, improved SLA compliance, faster incident resolution, and full situational awareness across all critical network functions.

Solution Include Unified visibility (Video wall) and should be compatible with Etisalat environment &

2. Network Elements in Scope

The solution must support complete monitoring and management for the following domains:

- Radio Access Network (RAN) BSC, RNC All BTS, NodeB, eNodeB, gNodeB, RRUs, antennas, and related interfaces.
- Core Network EPC/5GC elements (MME, SGW, PGW, AMF, SMF), HSS, PCRF, IMS.
- Transport Network IP/MPLS, DWDM, SDH, microwave, leased line links.
- OSS/BSS Systems Billing, CRM, provisioning, inventory, and performance systems.
- IT Infrastructure Servers (Windows/Linux), DBs, firewalls, storage, virtualization platforms.
- Datacenter & Cloud Network VMs, containers, physical & logical connectivity.
- Enterprise & Access Network Switches, routers, SD-WAN, load balancers, DNS, DHCP, NTP.
- Security Devices NGFWs, IPS/IDS, DDoS mitigation systems, SIEM integrations.
- IoT Devices & External Integrations Including API-based external services and sensors.
- IT OSS: EDW, ERP, MIS, RAID, Mediation and BI/reporting systems
- 3. Core Functional Requirements
- 3.1 Centralized Monitoring & Visibility
 - Unified monitoring across all NEs, domains, and layers.
 - Real-time health, fault, and performance dashboards.



• Geo-redundant architecture with failover support.

3.2 Integration Capability

- Multi-vendor support: Huawei, ZTE, Cisco, Fortinet, Microsoft, Linux, DNS Box.
- Support SNMPv3, NetFlow, sFlow, WMI, Syslog, REST APIs, etc.
- Seamless integration with CMDB, trouble-ticketing, SIEM, and other OSS/BSS tools.

4. Functional Modules

4.1 Dashboards & Visualization

- Custom, real-time dashboards for each network domain.
- Geo-maps, heatmaps, gauges, widgets, and icon-based NEs.
- Executive summary and drill-down views by region, technology, and NE.

4.2 KPI & Metric Monitoring

- Availability KPIs: Uptime, SLA breaches.
- Performance KPIs: Latency, jitter, packet loss, throughput.
- Reliability: MTTR, MTBF.
- Utilization: Bandwidth, CPU, memory, disk, port, and storage usage.
- Database KPIs: Query health, connection stats, replication status.

5. Maintenance Modules

5.1 Preventive Maintenance

- Automated scheduling, alerts, and reporting.
- Configuration compliance and backup monitoring.

5.2 Corrective Maintenance

- Real-time fault detection and RCA.
- Automated scripts for common issues.
- Change management compliance.

6. Fault & Traffic Analytics

- Fault correlation and impact analysis.
- Traffic patterns by application, region, and link.
- Predictive analytics using AI/ML models.



7. Security Monitoring

- Real-time DDoS, anomaly, and intrusion detection.
- Encryption, firewall, and SIEM integrations.
- Compliance dashboards (ISO 27001, GDPR, etc.).

8. Service & Application Monitoring

- SLA tracking for internal apps (e.g., VoIP, ERP).
- 3rd-party service provider SLA monitoring.
- End-to-end service chain analysis.

9. Trouble Ticketing Integration

- Automated ticket generation, classification, and routing.
- Ticket lifecycle management with escalation paths.
- Linkage with asset and configuration databases.

10. Virtualization & Cloud Monitoring

- VMs, hypervisors (VMware, Hyper-V), containers.
- CPU, disk IOPS, memory, and network traffic per VM.
- Monitoring for cloud-native deployments and hybrid clouds.

11. Storage & Backup Monitoring

- Live health and usage tracking for SAN, NAS, and backup systems.
- Forecasting tools for capacity planning.

12. User Management & Access Control

- RBAC (Role-Based Access Control).
- Multi-tenancy: segregated views for different business units.
- Mobile/web dashboards and multilingual support.

13. Advanced Notifications

- Multi-channel (SMS, email, chat, push).
- Alert correlation and suppression logic.



• Escalation policies and stakeholder notifications.

14. Reporting & Data Analytics

- On-demand and scheduled reports (SLA, incidents, traffic, capacity).
- BI tool integration for deeper insights.
- Export in multiple formats (PDF, Excel, CSV, etc.).

15. Operational Efficiency

- ITIL-aligned processes for incident, problem, and change management.
- Disaster recovery, high availability validation drills.
- CMDB and backup audit integrations.

16. Cost Optimization

- Recommendation engine for EOL/EOS hardware and software.
- · Capacity and license usage insights.
- Support for open-source tool integration to reduce costs.

17. GNOC Video Wall Support

- Wall-compatible dashboard views for 24/7 surveillance.
- Critical alerts and geo-mapped issues view.
- Support for multi-screen, NOC layout, and centralized alarms.

18. Deliverables

- Detailed HLD & LLD documents.
- Full deployment of solution across all sites.
- Configuration of dashboards and KPIs.
- User training & handover.
- Integration documentation and SOPs.
- License, support, and maintenance plan for 3-5 years.

19. Power and Environment Monitoring



Provide real-time monitoring and alerting for data center environment conditions including temperature, humidity, smoke detection, water leakage, power usage, and UPS/backup systems — fully integrated into the central dashboard and ticketing workflows.

For MSCs & BTS Sites

- Integrate monitoring for smart DGs, ATS panels, AMF panels, main distribution boards (MDBs), and AC/DC power systems.
- Monitor input/output voltages, phase status, power factor, and battery voltages of rectifiers and UPS systems.

2. UPS & Battery Bank Monitoring

- Real-time health monitoring of UPS systems, battery banks, and charger controllers.
- Include insights into charge/discharge cycles, battery backup capacity, and battery age prediction.
- Alert for battery failures, voltage imbalance, or low backup time.

3. Rack-Level Energy & Thermal Management

- Include monitoring for rack-level power distribution units (PDUs) and temperature sensors.
- Heatmap views for rack-wise temperature/humidity trends and thresholds.
- Integration with intelligent PDUs (iPDUs) for socket-level control and monitoring.

4. Environmental Sensor Integration

- Support for temperature, humidity, smoke, water leak, vibration, and door access sensors.
- Alarm thresholds and response actions fully integrated into the centralized dashboard and ticketing system.

5. AC Units and CRAC Monitoring

- Monitor status, cooling capacity, and power draw of AC units and CRAC systems.
- Alert for unit failure, cooling inefficiency, or energy spikes.
- 6. DC Rectifier and Solar Hybrid System Monitoring (if applicable)



- Include DC systems used in remote telecom sites or solar-powered environments.
- Monitor battery voltage, solar panel efficiency, and load switching.

7. Power Outage History and SLA Breach Reporting

- Maintain logs of power failures, generator run hours, and recovery timelines.
- Correlate outages with service performance metrics for SLA breach analysis.

8. Power Usage Analytics and Optimization

- Provide analytics for energy consumption trends, efficiency ratios, and capacity planning.
- Suggest energy-saving opportunities and load balancing options based on monitored data.
- 9. Integration Protocols and Device Compatibility
- Support SNMP, Modbus TCP/IP, BACnet, and REST APIs to interface with power and environmental devices.
- Must be vendor-agnostic and compatible with third-party systems (e.g., Schneider, APC, Emerson, ZTE, Huawei, etc.).



Annexure-B

Cybersecurity Requirements

General Security Requirements:

- 1. Vendor must ensure their operating systems are up to date and is not End of Life/End of Support.
- 2. Vendor must ensure proper patch management of their servers in alignment with EA IT and Cybersecurity policies.
- 3. Vendor must ensure a licensed and standard AV solution is installed in all of their operating systems.
- 4. Vendor must ensure full cooperation and coordination with EA Cybersecurity team whenever required.
- 5. Vendor must not install any application without proper coordination and agreement of EA SOC Team
- 6. The use of insecure cryptographic algorithms and protocols are strictly prohibited and all integrations and system communication must be based on secure and strong cryptographic algorithms.
- 7. Vendor must ensure strong protection of EA data stored on vendor's cloud.
- 8. Vendor must align all of their services and configurations in accordance to EA Information Security policies and standards.
- 9. Vendor must use and install only licensed applications.
- 10. The installation and Integration of servers must be aligned with IT and Cybersecurity requirements.
- 11. Vendor must not use/install any application/service that is not required.
- 12. Vendor must communicate any software installation with EA Cybersecurity team in advance.
- 13. Vendor must align their changes according to EA Change Management Policy.
- 14. Vendor must ensure all their operating systems are fully patched with the latest OS/Software updates.
- 15. Vendor must not use any OS that is/will be End of Life / End of Support in less than 3 year.
- 16. Only secure and strong cryptographic algorithms are allowed to be used in the vendor platforms.
- 17. System must support Role Based Access Control, and Rule Based Access Control
- 18. System must provide Strong authentication and authorization mechanisms
- 19. System must be capable of advanced logging mechanisms to ensure user activities are logged for audit and security purposes and the log must include all of the following at minimum.
 - Failed and successful logins
 - Modification of security settings
 - Privileged use or escalation of privileges
 - System events
 - Modification of system-level objects
 - Session activity
 - Account management activities including password changes, account creation, modification...
 - Event logs must contain the following details:
 - Date and time of activity
 - Source and Destination IP for the related activity
 - Identification of user performing activity
 - Description of an attempted or completed activity.



- 20. The system must support live log retention of 1 Year and backup up to 3 years.
- 21. System must be capable of encrypting the log files to ensure user does not modify or change the logs.
- 22. System must provide cryptographic algorithms such as AES 128/256 Bit, SHA 256/384/512 bits.
- 23. System must be secure against well-known attacks including but not limited to SQL Injection, XSS, CSRF, SSRF, Code Execution and other attacks.
- 24. Vendor system's password configuration must be aligned with EA Information security policies.
- 25. System must support integration with LDAP, IAM "Identity and Access Management" and PAM "Privileged Access Management" Solutions.
- 26. System must support external log synchronization mechanisms to push logs to another system for analysis such as SIEM and centralized log server.
- 27. The database must support the encryption of admin user's information with algorithms such as PBKDF2 and SHA256/384/512 bits.
- 28. The database platforms "if any" must support the encryption of data in-transit and at rest.

Important Note:

Bidders, vendors, and any concerned party shall fill all the fields in the below table, any missing or non-compliant item may cause disqualifying the proposed system from the Etisalat Security side.

No.	Description	Compliance (YES/NO/NA)	Comments
1	Etisalat Security Requirements		
1.1	The Contractor/Supplier/vendor to sign Non-Disclosure		
	Agreement (NDA) with Etisalat before finalizing		
1.2	RFx/contract/POC agreement as per Etisalat NDA process.		
1.2	Contractor/Supplier/vendor equipment's (e.g. Servers, PCs, etc.) that are connected to Etisalat network must be		
	securely wiped before taking out of Etisalat premises.		
1.3	The proposed/contracted system shall pass Etisalat Security		
	Audit (Vulnerability Assessment/Penetration Testing)		
	before go-live/service acceptance by Etisalat.		
	Contractor/Supplier/vendor shall provide SLA for fixing		
	Security gaps based on severity.		
1.4	Contractor/Supplier/vendor shall fix all security issues		
	identified and reported by ETISALAT and/or Third Party		
1.5	Contracted to do the testing, with no additional cost Contractor/Supplier/vendor confirms that its		
1.3	products/solution are tested for weaknesses via methods		
	such as Vulnerability Assessment, penetration testing, red		
	teaming exercises and scans that check for compliance		
	against the baseline security standards or security best		
	practices, before the new product or any of its releases is		
	delivered to ETISALAT.		
	The Contractor/Supplier/vendor shall provide		
	evidence/report of the security assessment/audit of the proposed solution.		
2	Security Architecture		
2.1	The Contractor/Supplier/vendor shall ensure that proposed		
	solution shall comply with the applicable IT and Telecom		



		Compliance	etisalat
No.	Description	Compliance (YES/NO/NA)	Comments
	Security standards (such as Afg. NESA (SIA) IA V2, Afg.		
	DESC (ISR), Afg. TRA, 3GPP, ETSI, ENISA, CSA, NIST,		
	PCI, ISO, GDPR etc.) The Contractor/Supplier/vendor		
	shall confirm the applicable standard.		
2.2	The proposed solution shall support the latest operating		
	systems and application versions.		
	Contractor/Supplier/vendor to ensure proposed solutions		
	will run the latest stable software, operating system, and		
	firmware.		
2.3	The solution shall be designed with multi-tier architecture,		
	(Demilitarized Zone (DMZ), middleware, and private		
	network). Any system accessible from the Internet shall be		
	on the DMZ and access to internal sensitive data shall be		
2.4	secured through the middle tier application proxy.		
2.4	The proposed solution shall not impact or relax existing		
2.5	Etisalat security control or posture.		
2.5	The performance of the proposed system shall meet the		
	business requirements without disabling or removing any		
2.6	existing security control		
2.0	The Contractor/Supplier/vendor shall provide only secure		
	methods of communication such as HTTPS, SFTP, SCP, TLS1.3, IPSEC, SRTP, SSH v2, SNMPv3 between the		
	proposed nodes. Non-secure protocols such as Telnet,		
	HTTP and FTP shall not be used.		
3	Password Security		
	All Operating Systems (e.g. Linux and Windows) shall be		
3.1	hardened according to well-known standards such as, but		
3.1	not limited to NIST, CIS security benchmark, and NSA.		
3.2	The proposed system includes password management		
0.2	module that supports the following features:		
3.3	Setting the minimum password length		
3.4	Password complexity, and not accepting blank passwords		
3.5	Maximum password age and password history		
3.6	Account lockout		
3.7	Enforce changing password after first login		
3.8	Prompt / notify for the old password on password changes		
3.9	The password shall be saved in hashed format (i.e.		
3.10	irreversible encryption) Forgatting or resetting password function shall support		
3.10	Forgetting or resetting password function shall support using OTP or email for verification		
4	Authentication		
4.1	The proposed system shall not provide access without valid		
	username and password.		
4.2	All user access to the proposed system shall support		
	Privilege account Management (PAM) integration.		
	5 6 (-)		



			etisalat
No.	Description	Compliance (YES/NO/NA)	Comments
4.3	For public web applications, the proposed system supports and uses CAPTCHA or OTP to prevent password		
L	dictionary attacks		
4.4	For mobile applications, the proposed system shall support and uses fingerprint authentication method		
4.5	The proposed system supports and uses secure authentication protocols, like Kerberos, LDAP-S, NTLM V2 and above, HTTPs (for web applications)		
4.6	The proposed system will not use insecure authentication protocols, like NTLM v1, HTTP (for web applications)		
4.7	The proposed system shall support session timeout settings		
4.8	The proposed solution shall support secure API architecture to integrate systems to exchange data where deemed necessary.		
5	Authorization		
5.1	The proposed solution shall support role-based access controls that includes access profiles or security matrix (i.e. Role Name VS. Access Permissions)		
5.2	The proposed system supports role-based access permissions, i.e. Administrator, Operator, Viewer, User		
6	Software Security		
6.1	The software development and testing will not run on the production systems, and will be running in an isolated environment		
6.2	The software source code will not include clear-text passwords		
6.3	The software code will not include insecure protocols, like FTP, telnetetc.		
6.4	The software testing will not use live/production sensitive or PII data unless it's masked as Etisalat security policy		
6.5	The proposed system enforces input and output validation to prevent security attacks, like SQL Injection, Buffer Overflowetc.		
6.6	For web portals, the proposed system includes all security controls to prevent/protect from OWASP Top 10 security attacks and risks		
6.7	For mobile application, the proposed system shall include security checks / controls to protect from mobile attacks, like SSL Pinning, Jailbreak, Anti-debug, Anti-hooking, and Advanced Obfuscation		

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No.	Description	Compliance (YES/NO/N A)	Comments
7	Security Event Logging		
7.1	Proposed systems shall support standard logging protocols such as CIFS/Syslog/CSV logs files		
7.2	The system shall generate and support audit logs that contain the following fields (as a minimum): a) Username b) Timestamp (Date & Time). c) Client IP Address d) Transaction ID & session information		
7.3	The proposed solution shall support the integration with Etisalat NTP for time synchronization and accurate logging.		
8	Public Cloud Security		
8.1	Etisalat customers' and staff personal data (PII: name, contacts, address, Emirates ID, Passport number, Nationality) is encrypted at rest and in transit using a strong industry-standard encryption protocol		
8.2	The Public Cloud setup that stores PII information shall be hosted in the Afghanistan		
8.3	The Public Cloud setup is hosted in a dedicated tenant for Etisalat (i.e. not shared)		
8.4	The Public Cloud data Center shall not be moved to another country or location without prior coordination and approval from Etisalat		
8.5	All Etisalat data will be permanently erased from the Public Cloud on termination of the service or support agreement		
8.6	The proposed Cloud system supports Etisalat Cloud Access Security Broker (such as Microsoft MCAS, Netskope CASB)		
9	Virtualization and Container Security		
9.1	If applicable, Bidder shall ensure the proposed virtualized infrastructure, service based and micro services architecture to support multi tenancy, zoning & micro-segmentation, security visibility, secure virtualization (sVirt), trusted image signing, virtual Firewalls, DoS protection, Trusted platform module (TPM), Hypervisor & Host OS security to secure data and resources.		
9.2	The proposed solution shall support integration with Etisalat/Leading Container Security Solution, where applicable, to scan the container images and ensure malware protection of CI/CD pipeline.		
9.3	Suppliers must inform EA Cybersecurity of any non-		



conformity with defined EA policies and processes that	
are agreed upon in advance to acquire a written	
approval from EA Cybersecurity Department or senior	
management as required otherwise Supplier will be	
responsible for all the potential losses	

RFP General Terms Compliance to be filled by Bidder.

S/N	Clause No. and General Terms	Comply (Yes/No)	Remarks
1	4. VALIDITY OF OFFERS:		
2	6. ACCEPTANCE OF OFFERS:		
3	7. REGISTRATION/LEGAL DOCUMENTS OF THE BIDDER		
4	8. PAYMENTS		
5	9. PENALTY:		
6	10. CONSTRUCTION OF CONTRACT:		
7	11. TERMINATION OF THE CONTRACT BY THE PURCHASER		
8	12. LOCAL TAXES, DUES AND LEVIES:		

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The following Information must be submitted with offer.

Bidder Contact Details		
Bidder Name		
Bidder Address		
Bidder Email Address		
Bidder Phone Number		
Bidder Contact Person Name		
Bidder Contact Person Phone No		
Bidder Contact Person Email Address		
Bidder Registration License Number		
License Validity		
TIN Number /Tax Number		

===== end of documents ======