

TENDER NOTICE

No. EA/02-51-2024

For Providing Customer Happiness Index & Customer Experience Index (CHI & CEI) Solution

1. Bids are invited from your esteemed Corporation for the Providing Customer Happiness Index & Customer Experience Index (CHI & CEI) Platform as per RFP Annexure. This bid Document is also available on the Etisalat website (www.etisalat.af, [Tenders](#)).

2. RFP Deadline is **31 December 2024 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 (azahid@etisalat.af) and cc: (lhsanullah@etisalat.af) and marked clearly with the **RFP name, and number**. When submitting proposals via email, the subject line should remain unchanged. Any modifications to the subject may cause issues in processing and could result in proposals not being considered.

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 ashalizi@etisalat.af and Phone No. +93781 204 040.

Ihsanullah Zirak

Director Procurement and Supply Chain

Ihsan Plaza, Shar-e-Naw, Kabul, Etisalat Afghanistan

E-mail: ihsanullah@etisalat.af

(RFP)

For

**Providing Customer Happiness
Index & Customer Experience
Index (CHI & CEI) Platform**



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/Offer 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 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 the Providing Customer Happiness Index & Customer Experience Index (CHI & CEI) Platform following Etisalat specifications and Annexures.

3. Scope of Work (SoW)

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 will be subject to the deduction of income tax at the prevailing rate, which will be withheld from the contractor's relevant invoices and paid directly to the Tax Authorities, unless the contractor is specifically exempted by the authorities.

Etisalat Afghanistan (EA) will issue a certificate of tax deductions to the contractor,

enabling the contractor to settle their 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 be 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 SOW-Customer Happiness Index & Customer Experience Index (CHI & CEI)

I. SCOPE OF WORK

- Etisalat Afghanistan is looking for a powerful Customer Happiness Index (CHI)/Customer Experience Index (CEI) service.
- Our aim is to gauge customer satisfaction in real-time, providing insights into how satisfied our customers are with our products or services, either in general or with a specific aspect of our business.
- This requires measuring multi-level, Multi-Tech Performance KPIs (user, cell, NodeB, site, RNC/BSC, province, cluster, or the entire network.
- For the CEI it is required to analyze different types of networks KQIs / KPIs when customers use various communications services like Voice, SMS, and Data.
- Customer satisfaction levels shall be measured through methods like customer surveys, Net Promoter Score (NPS), online reviews, customer complaints, and repeat business.
- The rating of customer satisfaction should be measured by 5 points, ["very satisfied" (5), "satisfied" (4), "natural" (3), "dissatisfied" (2) and "very dissatisfied" (1)]. To achieve customer satisfaction percentage, the result multiplied by 100.

- The Bidders are requested to provide their proposals for a Predictive Analysis platform that analyzes historical and real-time data. Predictive analytics help to anticipate customer needs and optimize network performance.
- The CHI/CEI system should have KQIs (Key Quality Indicators) which are indicators that reflect the service quality. KQIs shall be collected or calculated according to service aspect.
- The CHI/CEI system shall be capable of capturing and reporting Quality of service (QoS) and quality of experience (QoE).
- The bidder's system shall have the Network Performance Score (NPS) functionality as well with the related key factors for Quality of Experience such the Call Establishment, Quick Voice connections, Voice Quality, dropped Calls, internet speed and for the (KQIs) Key Quality indicators having the % of Successful established Calls, % Call establishment duration in seconds, % of Dropped Calls, % Mean opinion (MOS) and Perceptual Evaluation of Speech quality (PESQ or latest) and % DL & UL Data rate, Kbps.

II. SYSTEM CAPABILITIES:

1. Performance Management & Predictive Analytics platform.
2. Communicate to Network performance Score and Customer Quality of Service (QoS) then Customer Score to generate Reports Alerts -Alarms.
3. Capability to connect with MSC/HLR/VLR/BSC/RNC/GGSN/SGSN
4. Capability to connect with SIP/STPs/NTP/SNMP

5. Capability to EDWH for DB Links/Mediations
6. Capability to connect with CRM
7. Capability of HTTP, HTTPS, FTF/SFTP
8. Capability to analysis OTT services
9. Innovative Platform
10. Business Intelligence
11. Data Processing
12. Predictive Analysis
13. Capability of data/Voice/SMS with multi-Tech analysis and reporting
14. Support SON for wireless RF/core/TXN sub-networks
15. Dashboard/Reporting
16. RF interference
17. The bidder shall share a detailed HLD and LLD diagram during bidding presentation.

III. COMMERCIAL REQUIREMENTS

#	CHI Calculation Variable List	Definition
1	Call Success Rate (%)	Call success rate, as a percentage of attempted calls
2	Drop Call Ratio (%)	Drop call ratio, as a percentage of connected calls
3	Overall Web Response Delay (ms)	User level delay in receiving the first web response (separately, for 2G , 3G , 4G)
4	Overall TCP Connection Success Rate (%)	% of times the TCP connection is established at user level
5	Throughput (kbps) Overall 3G + 4G + 5G	3G/4G/5G Single user throughput in a day for all data usage
6	Throughput (kbps) 3G	3G Single user throughput in a day for all data usage

7	Throughput (kbps) 4G	4G Single user throughput in a day for all data usage
8	YouTube Throughput (kbps)	Single user throughput in a day for Youtube (separately, for 2G , 3G , 4G)
9	Facebook Throughput (kbps)	Single user throughput in a day for Facebook (separately, for 2G , 3G , 4G)
10	WhatsApp overall Throughput (kbps)	Single user throughput for overall WhatsApp usage (separately, for 2G , 3G , 4G)
11	Twitter Throughput (kbps)	Single user throughput in a day for Twitter (separately, for 2G , 3G , 4G)
12	Instagram Throughput (kbps)	Single user throughput in a day for Instagram (separately, for 2G , 3G , 4G)
13	TikTok Throughput (kbps)	Single user throughput in a day for TikTok (separately, for 2G , 3G , 4G)
14	Facebook Messenger Throughput (kbps)	Single user throughput in a day for Facebook Messenger (separately, for 2G , 3G , 4G)
15	YouTube Streaming Throughput (kbps)	Single user throughput in a day for YouTube Streaming (separately, for 2G , 3G , 4G)
16	Facebook Streaming Throughput (kbps)	Single user throughput in a day for Facebook Streaming (separately, for 2G , 3G , 4G)
17	Google Play Throughput (kbps)	Single user throughput in a day for Google Play (separately, for 2G , 3G , 4G)
18	Speed Test Throughput (kbps) overall	Speed Test result (Single user throughput during the test performed by user) (separately, for 2G , 3G , 4G)
19	Max Cell ID (per RAT)	Max time connected to Cell (2G, 3G, 4G)
20	MOU Pedestrian	Minutes of usage as Pedestrian
21	MOU Vehicular	Minutes of usage in moving vehicle
22	MOU Indoor	Minutes of usage as Indoor
23	MOU Outdoor	Minutes of usage as Outdoor
24	Handover Attempts (2G-3G-4G)	Inter RAT Handover attempts success / failure (2G <> 3G <> 4G)
25	Overall Download RTT (ms)	Client side Round Trip Time of download packets (separately, for 2G , 3G , 4G)

26	Overall Upload RTT (ms)	Server side Round Trip Time of upload packets (separately, for 2G , 3G , 4G)
27	Video latency xKB Delay (ms)	User level xKB delay in start of Video streaming (separately, for 2G , 3G , 4G)
28	WhatsApp RTT (ms)	WhatsApp Round Trip Time (separately, for 2G , 3G , 4G)
29	Throughput (kbps) 5G	5G Single user throughput in a day for all data usage
30	WhatsApp VoIP Throughput (kbps)	Single user throughput in a day for WhatsApp VoIP (separately, for 2G , 3G , 4G)
31	WhatsApp IM Throughput (kbps)	Single user throughput in a day for WhatsApp Messaging (separately, for 2G , 3G , 4G)
32	Voice Quality (VoLTE)	Quality of Voice Calls
33	Network Complaint History	Network related Complaint registered in last 30 days
34	Complaint Resolution lead time	Lead time to resolve the complaint
35	Network Element Outage	Identification if a customer impacted by a Network Element Outage
36	Coverage / Accessibility	To be defined
37	Other / Additional KPIs	To be identified as per solution capability and to be discussed

IV. DELIEVERY METHOD: The bidder should deliver CHI/CEI equipment on site and the custom clearance would be within the Contractor warehouse or there will be a joint agreement which will take time to align Etisalat and the contractor for the purchased Hardware to deliver to Etisalat premises.

V. INFRASTRUCTURE (VIRTUALIZED BASED): The bidder system shall have the flexibility and compatibility to be running on Virtualized based infrastructure so the bidder should provide the full specs of the VMs required for CHI/CEI Service

VI. INTERFACES:

- The Contractor shall guarantee full compatibility and interoperability of the supplied equipment with Etisalat-Afghanistan existing/concurrent multi-vendor equipment with standard interface, infrastructure with the GSM and 3GPP standards.

VII. SOFTWARE RELEASES/FEATURES & UPGRADE

- The bidder System shall be scalable and upgradeable to support future growth of subscribers, new resource intensive applications and shall comply with future GSM specifications, services and enhanced features.
- Any planned system HW/SW upgrades shall be implemented with minimum service interruption.
- The bidder System shall be modular and expandable both in capacity and in services / features.
- Software support and modifications considered necessary by Etisalat-Afghanistan due to the design defects/bugs either with the operating system of/or related to the applications shall be guaranteed for the life span of the equipment. The bidder shall notify Etisalat-Afghanistan immediately on identification of the effect and shall arrange to effect immediate correction. The correction notification shall be made known to Etisalat-Afghanistan prior to the installation of the correction to enable smooth transition/correction of the bugs/design defects.
- All features available in the current SW Release shall be included in the upgrade (besides the new features available to the upgrade SW Release) and all features available in upgrade SW Release shall be included in the next SW Release and henceforth.
- The Final Acceptance Certificate (FAC) shall be issued upon the successful implementation of the latest Software Release in all the contracted network elements. In the event of delay in implementing the latest SW release, the duration of the delay shall be added as an extended warranty over and above the agreed warranty period for the System.

- The bidder immediately upon its availability shall provide all new Software Releases features list.

VIII. TESTING AND DEBUGGING

- The bidder shall, jointly with Etisalat-Afghanistan, conduct tests on the Hardware and Software installed. The Contractor shall also remove any bugs/ discrepancies and replace/ vulnerabilities/ modify the defective hardware, software, application components, and re-run the acceptance tests again until all the tests are successfully concluded.

IX. MAINTENANCE & SUPPORT SERVICES:

- The bidder at no cost to Etisalat-Afghanistan shall replace any unit or component, which fails during the installation/warranty period.
- The bidder shall make provision of sufficient spare equipment in the bidder local offices in Afghanistan so that any faulty equipment can be replaced immediately (within 6 hours) from the time of the first notification made by Etisalat-Afghanistan or the time when fault has become apparent.
- The bidder shall provide every month a statistical report covering all types of faulty units/sub-units.
- The bidder undertakes the responsibility of providing Technical Support Service to Etisalat-Afghanistan by qualified Technical Support staff based in Afghanistan, during the entire warranty period of the System. Such Technical Support staff shall be capable to provide solution to problems, clearing of system faults and answers to technical questions concerning the supplied equipment within reasonable time limits.
 - In addition to local technical support, "tele-assistance" from Contractor's nominated support office shall also be available on 365/366 days of the year on 24 hours basis, at no additional cost to Etisalat-Afghanistan during the entire warranty period.

- In addition to the above, according to agreed SLA, the Contractor shall resolve all faults reported in writing by Etisalat-Afghanistan within a time frame.
 - The Contractor shall make available compatible replacement spares and proprietary components for a period of One year for the contractor products or 3rd party products.
 - If the performance of the Contractor's Engineering Support staff is not found standard, the Contractor shall provide a replacement within four weeks from the date of such notification by Etisalat-Afghanistan.
- EA will always be looking to have high availability in every service particular in the service level which will be crucial to keep with high level of performance with no complaint and customer dis-satisfactions.

The contractor must respect with the Service level agreement to consider the severity of the service levels, 1. Critical, 2. Major and 3. Minor with the restoration formula after resolving the ticket severity.

X. SYSTEM REDUNDANCY AND RELIABILITY

- The bidder solution shall be fully redundant to provide a very high degree of availability (99.99%). should have built-in redundancy and failover mechanisms to ensure high availability.
- Load Balancing: the bidder should employ load balancing techniques to distribute traffic evenly across multiple servers or nodes (if needed).
- The system should have redundant network connectivity, utilizing multiple network links or carriers to ensure continuous communication and minimize the impact of network outages or disruptions.
- **AUTOMATIC FAILOVER:** The bidder to have full control over the Hardware and software both should have Specifically, automatic failover refers to a practice that allows data handling to automatically be switched to another server or standby system in the event of a disaster or other emergency that could otherwise put the data at risk.

- **LOGS AND RESTORATION:** The contractor should have the ability to backup logs with proper justifications to EA team, while if incident happens there would be loss of a logs the restoration should be there back on the live interface to recovery the previous logs.

XI. SYSTEM PERFORMANCE

- The bidder shall be responsible for any degradation caused by the performance of the contracted equipment or any of its part (Hardware, Software, Application, Database, and Operating System) provided by the bidder. Hence, the bidder shall provide full solution for any degradation at no additional cost to Etisalat-Afghanistan, within one month of the date of first appearance of the problem.

XII. CYBER SECURITY Requirements:

1. Bidder must ensure their operating systems, DBMS and applications are up to date and are not End of Life/End of Support.
 2. Bidder must ensure proper patch management of their servers in alignment with EA IT and Cybersecurity policies.
 3. Bidder must ensure full cooperation and coordination with EA SOC "Security Operations Center" team whenever required and deemed appropriate.
 4. Bidder must not install any application without proper coordination and agreement of EA SOC Team.
 5. The use of insecure cryptographic algorithms and protocols is strictly prohibited, and all integrations and system communication must be based on secure and strong cryptographic algorithms.
 6. Bidder must ensure strong protection of EA data stored on vendor's cloud (if applicable).
 7. EA's data stored on vendor cloud must be destroyed whenever required and requested by EA.
 8. Bidder must align all their services and configurations in accordance with EA Information Security policies and standards.
 9. Bidder must use and install only licensed applications.
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10. The installation and Integration of servers must be aligned with EA's IT requirements.
11. Bidder must not use/install any application/service that is not required.
12. The bidder must communicate any prior to software installation with EA SOC team and get the required approvals.
13. The bidder must align their changes according to EA Change Management Policy.
14. Bidder must ensure all their operating systems are fully patched with the latest OS/Software updates.
15. Bidder must not use any OS/Applications that are/will be End of Life / End of Support in less than 1 year.

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.
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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 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 Contracted to do the testing, with no		

No.	Description	Compliance (YES/NO/NA)	Comments
	additional cost		
1.5	<p>Contractor/Supplier/vendor confirms that its 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.</p> <p>The Contractor/Supplier/vendor shall provide evidence/report of the security assessment/audit of the proposed solution.</p>		
2	Security Architecture		
2.1	<p>The Contractor/Supplier/vendor shall ensure that proposed solution shall comply with the applicable IT and Telecom 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.</p>		
2.2	<p>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.</p>		
2.3	<p>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</p>		

No.	Description	Compliance (YES/NO/NA)	Comments
	and access to internal sensitive data shall be secured through the middle tier application proxy.		
2.4	The proposed solution shall not impact or relax existing Etisalat security control or posture.		
2.5	The performance of the proposed system shall meet the business requirements without disabling or removing any existing security control		
2.6	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		
3.1	All Operating Systems (e.g. Linux and Windows) shall be hardened according to well-known standards such as, but not limited to NIST, CIS security benchmark, and NSA.		
3.2	The proposed system includes password management 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. irreversible encryption)		

No.	Description	Compliance (YES/NO/NA)	Comments
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.		
4.3	For public web applications, the proposed system supports and uses CAPTCHA or OTP to prevent password 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)		

No.	Description	Compliance (YES/NO/NA)	Comments
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, telnet ...etc.		
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 Overflow...etc.		
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...		

No.	Description	Compliance (YES/NO/ NA)	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:		

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 =====