

TENDER NOTICE

No. EA/02-46-2024

For Providing Static Code Analysis Tool

1. Bids are invited from your esteemed Corporation for Providing Static Code Analysis Tools in Afghanistan as per RFP Annexure. This bid Document is also available on the Etisalat website (<u>www.etisalat.af, Tenders</u>).

2. RFP Deadline is 26 November 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 (<u>kshinwari@etisalat.af</u>) 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 <u>kshinwari@etisalat.af</u> and Phone No. +93781 204 040.

Ihsanullah Zirak

Director Procurement and Supply Chain Ihsan Plaza, Shar-e-Naw, Kabul, Etisalat Afghanistan E-mail: <u>ihsanullah@etisalat.af</u>



(RFP)

For

Providing Static Code Analysis 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 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 Providing Static Code Analysis 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 a Static Code Analysis Tool



Technical Scope of Work (SoW) for a Static Code Analysis Tool

1. Objective

The primary objective of this project is to procure and implement a **Static Code Analysis (SCA) Tool** to enhance the software development lifecycle (SDLC) within Etisalat Afghanistan EA. The tool should automatically analyze and review source code for security vulnerabilities, coding errors, and adherence to secure coding standards, ensuring the development of secure, highquality software products.

This tool will be an integral part of the cybersecurity strategy to mitigate risks associated with insecure code and vulnerabilities in both internally developed and third-party applications.

2. Scope of Work

This document outlines the comprehensive technical requirements and deliverables for the selection, procurement, configuration, integration, and operationalization of a static code analysis tool within EA.

2.1 Requirements Gathering and Assessment Understand Existing Development

Environments: Evaluate the development languages, platforms, and environments in use by the software development teams within the organization.

- Programming languages: Java, C++, Python, JavaScript, Swift, PHP, etc.
- Platforms: Web, mobile, cloud, API development, telecom-specific applications.
- Integration with Continuous Integration/Continuous Deployment (CI/CD) pipelines.
- **Define Security and Coding Standards**: The tool must comply with industry-standard coding practices (e.g., OWASP Top 10, SANS/CWE Top 25, PCI DSS) and telecom-specific security standards (e.g., GSMA guidelines).

2.2 Static Code Analysis Tool Requirements

The tool must meet the following technical specifications:

2.2.1 Code Coverage

- **Programming Languages**: The tool should support all major programming languages used in the company, including but not limited to:
 - Java, Python, JavaScript, C, C++, Swift, PHP, Go, and Ruby.



- **Mobile and Telecom-Specific Languages**: Support for mobile application languages such as Swift (iOS) and Kotlin (Android). The tool must also be adaptable for telecom-specific software languages and proprietary systems.
- **Third-party Libraries and Dependencies**: Ability to analyze third-party libraries, opensource dependencies, and frameworks for vulnerabilities.

2.2.2 Vulnerability Detection

- Security Vulnerability Detection: The tool should identify a wide range of security vulnerabilities, including but not limited to:
 - Injection flaws (SQL injection, command injection, etc.).
 - Buffer overflows.
 - Cross-site scripting (XSS).
 - Insecure deserialization.
 - Authentication and authorization issues.
 - Vulnerabilities listed in the OWASP Top 10 and CWE Top 25.
- **Coding Standard Violations**: Detection of non-adherence to coding standards and best practices, such as memory leaks, null pointer dereferencing, and hard-coded credentials.
- **Telecom-Specific Vulnerabilities**: Ability to detect vulnerabilities specific to telecom applications and protocols, including SS7, Diameter, SIP, and other telecom systems.

2.2.3 Automation and Integration

- **CI/CD Pipeline Integration**: Seamless integration with existing DevOps tools such as Jenkins, GitLab, GitHub Actions, or Bitbucket Pipelines to automate the scanning of code during development and deployment phases.
- **Build Environment Compatibility**: The tool should be compatible with various development environments, including cloud-based, containerized (Docker, Kubernetes), and on-premises systems.
- **Automated Reports**: Ability to generate and automatically send reports at predefined intervals or upon completion of scans.

2.2.4 Customizability

• **Custom Rule Creation**: Ability to create and define custom security rules tailored to the company's unique development requirements.



• **Flexibility to Exclude False Positives**: The tool must allow developers to manage false positives efficiently by excluding or prioritizing certain vulnerabilities.

2.2.5 Accuracy and Performance

- Accuracy: High accuracy in identifying critical vulnerabilities with minimal false positives and false negatives.
- **Scalability and Performance**: The tool must be able to handle large-scale codebases and large volumes of code efficiently with minimal performance overhead.

2.2.6 Developer-Friendly Features

- **IDE Integration**: Support for integration with Integrated Development Environments (IDEs) such as Eclipse, Visual Studio, IntelliJ, and others, enabling developers to catch issues during the coding phase.
- **Real-time Feedback**: The tool should provide developers with real-time feedback on potential vulnerabilities or code issues as they write code.

2.2.7 Compliance Reporting

• **Regulatory Compliance**: Generate reports tailored to specific regulatory requirements (e.g., PCI DSS, GDPR, HIPAA, NIST) and ensure adherence to secure coding practices.

2.3 Tool Deployment and Integration

- On-premises vs. Cloud Deployment: The tool should be available in both cloud-based and on-premises deployment models, ensuring flexibility based on organizational policies and security requirements.
- **Role-based Access Control (RBAC)**: Ensure the tool has RBAC capabilities, enabling differentiated access levels for security teams, developers, auditors, and management.
- Integration with Other Security Tools: Ability to integrate with other cybersecurity solutions such as SIEM (Security Information and Event Management) systems, threat intelligence platforms, and vulnerability management tools.

2.4 Security and Data Protection

- **Data Privacy and Encryption**: Ensure all sensitive data processed by the tool (e.g., scanned code, vulnerability reports) is encrypted both at rest and in transit.
- **Code Storage Policies**: The tool should comply with internal policies and external regulations regarding the storage and handling of sensitive source code. It must not retain unnecessary code or logs that could pose a security risk.



2.5 Training and Support

- **Training for Development Teams**: Provide training sessions for developers, security teams, and system administrators to understand how to use the tool effectively and interpret the results.
- **Technical Support**: Offer 24/7 technical support and a knowledge base for troubleshooting issues and optimizing the tool.

3. Deliverables

The vendor must deliver the following:

- **Static Code Analysis Tool**: A fully functional tool capable of meeting all the specified requirements.
- **Implementation Plan**: A detailed plan outlining how the tool will be integrated into existing development environments and workflows.
- **Testing and Validation**: Conduct testing to ensure that the tool accurately identifies vulnerabilities in sample codebases, including telecom-specific applications.
- **Documentation**: Comprehensive user manuals, administrator guides, and integration documentation.
- **Training Program**: Onboarding training sessions for key stakeholders, including developers, DevOps teams, and Cybersecurity and IT Security Operations personnel.
- **Ongoing Support**: Provide post-implementation support, updates, and security patches for a predefined period.



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 noncompliant 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 additional cost | | |
| 1.5 | 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. | | |
| | | | |
| | The Contractor/Supplier/vendor shall provide evidence/report of the security assessment/audit of the | | |
| | proposed solution. | | |
| 2 | Security Architecture | | |
| 4 | Security Architecture | | |



| No. | Description | Compliance (YES/NO/NA) | Comments |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------|
| 2.1 | 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. | | |
| 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 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) | | |
| 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. | | |



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| No. | Description | Compliance (YES/NO/NA) | Comments |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------|
| 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) | | |
| 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 wit | h defined EA policies and processes that | |
|-----------------|------------------------------------------|--|
| are agreed upon | n in advance to acquire a written | |
| approval from | EA Cybersecurity Department or senior | |
| management as | s required otherwise Supplier will be | |
| responsible for | all the potential losses | |

<u>RFP</u> 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 | |