



18 June 2025

ASTI - BIDS AND AWARDS COMMITTEE

SUPPLEMENTAL BULLETIN NO. BAC-2025-06-008

**PROCUREMENT OF SOFTWARE LICENSE SUBSCRIPTION TO API
MANAGER AND INTEGRATION SOLUTION**

The ASTI Bids and Awards Committee (BAC) issues this Supplemental/Bid Bulletin to clarify, modify or amend items in the Bidding Documents and to reply to queries raised by the potential bidders through letters/emails for the information of all bidders for the procurement of:

Item:	Procurement of Software License Subscription To API Manager And Integration Solution
Approved Budget for the Contract:	Two Million Eight Hundred Thousand Pesos Only (P2,800,000.00)
Invitation to Bid No.:	25-05-5263 dated 03 June 2025
Purchase Request No.:	PROPEL-25-05-21226 dated 09 May 2025
Published Date (PhilGEPS):	05 June 2025 12100171

A. AMENDMENT TO PROCUREMENT DETAILS AND FORMS

REFERENCE	AMENDMENT/CHANGE/CLARIFICATION
Not Applicable	Not Applicable

B. RESPONSE TO QUERIES

QUERY/ISSUE	BAC/END-USER RESPONSE/CLARIFICATION
What is the estimated number of API calls the system will handle per month?	Infinite
What is the total number of APIs expected to be published and managed?	Infinite
How many control planes/environments (e.g., Development, Testing, Production) are required?	Three (3)
How many data planes (i.e., API gateway groups or clusters) are expected in the deployment?	Three (3)
Are there any existing API management or integration solutions currently in use? <ul style="list-style-type: none">• If yes, what are these solutions?• Will the new solution replace or co-exist with them?• Is migration of existing APIs/integrations required?	Yes. <ul style="list-style-type: none">• WSO2 API Manager and Micro Integrator• Ideally, we will manage one (1) solution only.• Yes

<p>Could you provide a detailed list of systems and applications that need to be integrated?</p> <ul style="list-style-type: none"> What connection modules are available for integration (e.g., JDBC, REST, SOAP, file-based, etc.)? 	<p>E.g., DOST agency websites</p> <ul style="list-style-type: none"> JDBC
<p>Are these systems hosted on-premise, in the cloud, or in a hybrid environment?</p>	<p>On-premise or in the cloud</p>
<p>What types of data sources and formats need to be exposed as APIs?</p>	<p>json and xml format</p>
<p>Do the APIs need to support data transformation logic such as mapping, enrichment, validation, or conditional logic?</p>	<p>Yes</p>
<p>Will the API transformations be required in real-time or batch mode?</p>	<p>Real-time/batch mode</p>
<p>A term sheet should be included as an attachment to the bidding documents.</p>	<p>Please see attached Term Sheet. Term sheet must be a) signed by the prospective bidder representative in each and every page thereof and b) submitted to the DOST-ASTI BAC as part of Section VII. Technical Specifications under the technical component of the bid.</p>

ADDITIONAL INSTRUCTION/S: Prospective bidder/s are required to: 1) amend the form to update existing information or 2) submit a copy of supplemental bulletin with statement of compliance or signature of authorized representative. **Non-compliance with this requirement shall be grounds for disqualification.**

Please be guided accordingly.

Prepared by:

 Digitally signed
by Ramos
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TERM SHEET

PROCUREMENT OF SOFTWARE LICENSE SUBSCRIPTION TO API MANAGER AND INTEGRATION SOLUTION

I. Introduction

The Department of Science and Technology - Advanced Science and Technology Institute (DOST-ASTI) requires a software license subscription for an API Manager and Integration Solution to support Project PROPEL. This Term Sheet outlines the technical specifications, requirements, and scope of work for this procurement.

II. Project Background

DOST-ASTI necessitates a robust and scalable API Management and Integration platform for the implementation of its PROPEL project. This platform will enable DOST-ASTI to efficiently manage and integrate various systems, applications, and data sources, facilitating seamless data exchange and enhancing operational efficiency.

III. Objectives

1. Procure a software license subscription for a comprehensive API Manager and Integration Solution.
2. Ensure the selected solution meets the technical specifications and requirements outlined in this Term Sheet.
3. Establish a clear agreement with the vendor for license provision, support, and maintenance.

IV. Scope of Work and Technical Specifications

A. API Management Solution

1. **Full API Lifecycle Management:**
 - Comprehensive support for API design, development, publishing, versioning, security, monitoring, and retirement.
 - Capabilities for creating, managing, and enforcing API policies.
 - Extensible platform allowing for customization of the API lifecycle to align with DOST-ASTI's specific SDLC.
2. **API Gateway:**
 - High-performance API gateway for secure traffic management, rate limiting, throttling and caching.
 - Support for various authentication and authorization mechanisms (OAuth 2.0, OpenID Connect, JWT, API keys).
 - OOTB support for configuring retry, timeout and circuit breaker mechanisms for backends.
3. **Developer Portal:**
 - Customizable developer portal for API discovery, documentation (Swagger/OpenAPI), testing, and subscription management.
 - SDK generation and sample code for various programming languages.

- Collaborative API Development. APIs can be shared between API developers.
- 4. Analytics and Monitoring:**
 - Real-time dashboards and analytics for API usage, performance, and error tracking.
 - Alerting and notification capabilities.
 - Integration with external analytics platforms.
 - Business insights and anomaly detection.
- 5. Security:**
 - Robust security features to protect APIs from common vulnerabilities (OWASP Top 10).
 - Support for encryption, digital signatures, and other security best practices.
 - API Security
- 6. Scalability and Performance:**
 - Ability to handle high volumes of API traffic and scale horizontally as needed.
 - Caching mechanisms to improve API performance.
 - Real-time monitoring and analytics for API usage and performance.
- 7. Deployment Flexibility:**
 - Support for on-premises, cloud, and hybrid deployment models.
 - Containerization support (Docker, Kubernetes).
 - Hybrid API management.
- 8. API Protocols:**
 - Support for REST, SOAP, GraphQL, and WebSockets.
 - Micro API Gateway, Scalable Microgateway, Standalone Microgateway deployment, Per API Microgateway deployment, Built-in support for containerized micro gateway deployment.

B. Integration Solution

- 1. Integration Capabilities:**
 - Ability to connect and integrate diverse systems and applications, including databases, message queues, and enterprise applications.
 - Data transformation and mapping capabilities.
 - Support for various integration patterns (message routing, orchestration, event-driven integration).
 - Part of a full integration platform (including Identity & Access Management, Enterprise Integration / ESB)
- 2. Development Environment:**
 - Low-code/no-code graphical development environment for rapid integration development.
 - Pre-built connectors and templates.
- 3. Deployment:**
 - Lightweight runtime environment suitable for microservices architectures.
 - Containerization support (Docker, Kubernetes).
- 4. Monitoring and Logging:**
 - Dashboard to monitor all deployed services.
 - Logging and error handling.

C. General Requirements

1. Licensing:

- Subscription-based licensing model
- One year subscription period with an option for renewal. A grace period of up to three (3) months shall be provided between subscription terms to accommodate potential procurement delays.
- At least one (1) license to support DOST-ASTI's needs
- Minimum of 2-core deployment for the integration solution and API management solution
- Covers up to 3-pre-production environments and 1 disaster recovery (in sleep mode)

2. Support:

- Comprehensive technical support during implementation and throughout the subscription period.
- Technical support should be available at least eight (8) hrs from Monday to Friday and has the following response time:
 - Application is down – Two (2) business hrs;
 - Serious degradation – Six (6) business hrs;
 - Moderate impact – One (1) business day; and
 - Low impact – One (1) to two (2) business days
- DOST-ASTI must be able to request technical support by phone, email, or through a website.
- Defined service level agreements (SLAs) for response times and issue resolution.
- Access to online documentation, knowledge base, and support forums.

3. Training:

- Training for DOST-ASTI personnel on the use and administration of the API Management and Integration Solution.
- Training materials and documentation.

4. Others:

- Complimentary five developer certifications conducted during the duration of the subscription period
- Optional but recommended: Access to Architecture Exchange
- Onboarding services equivalent to max of 100 hours

V. Bidder's Qualification Requirements

1. Certification as an authorized reseller and partner of the proposed API Management and Integration Solution.

VI. Duties and Responsibilities

A. Vendor/Service Provider shall:

1. Provide software license subscription for the API Manager and Integration Solution.
2. Provide technical support and maintenance services.
3. Conduct training for DOST-ASTI personnel.
4. Ensure the solution meets the technical specifications and requirements outlined in this Term Sheet.

B. DOST-ASTI shall:

1. Provide necessary access to systems and information for implementation and support.
2. Assign personnel for training and knowledge transfer.
3. Adhere to the terms and conditions of the license agreement.

VII. Delivery and Payment Terms

1. Activation of the software subscriptions shall be made within thirty (30) calendar days from the issuance of Notice to Proceed.
2. Payment shall be made upon successful activation of the licenses and training/knowledge transfer, as well as inspection and acceptance, if applicable.
3. Price is inclusive of government taxes and other charges.