



SANPC/2025/004- APPOINTMENT OF SERVICE PROVIDER TO IMPLEMENT EDI SOLUTION FOR SANPC

1.Introduction and Background

SANPC was formed through the merger of SFF, PetroSA, and iGas, and one of its business objectives is optimizing midstream and downstream supply chain processes. Currently these processes are manual and create lot of inefficiencies and frustrations for the trading partners doing business with SANPC.

Most trading partners in the petroleum sector use the Oil Industry EDI Forum standards and tools to manage some of the midstream and downstream business processes (buy-sell and throughput agreements). SANPC requires an EDI solution that will act as a broker to integrate with its interim ERP (Sage 300) and EDI trading partners. The solution required should be easily migratable to SAP, the target architecture.

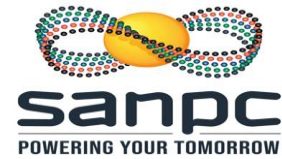
The solution will be implemented as an external EDI broker application that communicates with Sage 300 via API, flat files, or middleware and will manage inbound and outbound EDI messages for various business processes and scenarios at various SANPC and EDI partner locations. The processes and scenarios will include:

- Throughput replenishments using various modes of transport (Road, rail, cross pump, ship, pipe etc.
- Throughput uplift orders
- 3rd party stock management
- Buy Sell Order to local oil companies in various locations
- Sales to Customers
- Delivered sales for Road and Non-Road

2. Objectives

The objective of this RFP is to appoint a qualified service provider to design, supply, implement, and support an EDI solution that will:

- Automate manual processes and improve operational efficiency.
- Comply with Oil Industry EDI Forum governance, rules, standards, and tools.



- Integrate seamlessly with Sage 300 and support future migration to SAP.
- Provide secure, auditable, and scalable communication with trading partners.
- Support both EDI-enabled and non-EDI customers via a web interface.

3. Scope of Work

The successful bidder shall deliver an end-to-end EDI solution covering the following areas:

3.1 Functional Scope

- EDI Message (Orders, Responses, oil rec, oil not Movements etc) creation for different EDI scenarios and modes of transportation.
- Handling of incoming and outgoing messages
- Integration with Sage 300, passing and collecting order entry data, shipments, purchase order, movements etc.
- Multi-Channel Order Capture for non-EDI customers, more especially for throughput uplifts partners, with the ability to view stock entitlements, movements, reports, check order statuses, cancel or update orders
- Master Data Mapping based on Oil Industry standards.
 - o Product codes, locations, partners for both purchasing and selling
- Validation & Translation of messages.
- Exception Management.
- Audit & Reporting.
- Allow for Incoming and outgoing message status tracking
- Customer Interaction (ticketing & query management).

3.2 Non-Functional Scope

- Security: Encrypted data, SFTP/API.
- Performance: High-volume, low latency.
- Availability: 99.5% uptime, disaster recovery.
- Compatibility: Compliance with EDI Forum standards.
- Scalability for future partners and message types.
- Training and user documentation.

3.3 Interfaces

- Trading partners (FTP/API), Sage 300 ERP, and user dashboards/portals.

3.4 Implementation Considerations

- Solution built outside Sage 300.
- Future migration to SAP without rework.
- Pilot implementation before full rollout.
- Handling of missing Sage 300 data fields (e.g., transport mode).



4. Deliverables

- Configured EDI solution with SANPC EDI partners for EDI business scenarios provided.
- Design and mapping of the EDI master data of SANPC and existing EDI partners
- Integrated and tested solution with Sage 300.
- Web portal for non-EDI customers.
- Training materials and sessions.
- Operational manuals.
- 100% Compliance to Oil Industry EDI Forum.

5. Acceptance Criteria

- Successful transmission and receipt of all EDI messages.
- Seamless data integration with Sage 300.
- Availability of full audit trails.
- Reduction of manual Excel-based processes.
- Approval from Oil Industry EDI Forum compliance review.

6. Vendor Responsibilities

- Supply, configure, and customize the EDI solution.
- The approach required is for the vendor to prioritize throughput replenishment and throughput uplift scenarios in terminal location in Cape Town with trade relationship of about 2 active EDI trading partners and 2 non EDI partners.
- Perform all activities set out on functional requirements
- Provide project management, change management, and training.
- Ensure security, compliance, and business continuity.
- Post-implementation support and SLA-based maintenance.

7. Instructions to Bidders

- Bidders must submit proposals that include:
 - o Company profile and relevant experience.
 - o Technical proposal demonstrating compliance.
 - o Detailed implementation plan and timeline.
 - o Cost breakdown (licenses, services, support).
 - o Proposed SLA commitments.
 - o References from at least 3 similar EDI projects with case studies

Annexure Extract of Detail Requirements

Requirement	Description
EDI Message Handling	<ul style="list-style-type: none"> - The system must support inbound and outbound message types defined by the Oil Industry EDI Forum: - EDI OIL ORDER: capture, validate, and translate purchase/sales orders. - EDI OIL RESPONSE: send responses confirming acceptance, rejection, or amendments. - EDI OIL MOVEMENT: record and report physical product movements in/out of storage. - The system must: - Validate messages against industry-standard schemas. - Translate messages into Sage 300-compatible formats. - Generate outbound responses in the correct industry-standard format
Partner Information Requirements	<ul style="list-style-type: none"> - Partner data master will be provided and to be mapped accordingly
Multi-channel Order capture	<ul style="list-style-type: none"> - Provide online interface for non-EDI customers to create orders which will generate EDI message
Integration with SAGE	<ul style="list-style-type: none"> - Real-time or near real-time synchronization of: Purchase Orders, Sales Orders, Inventory Movements - Master Data (products, customers, suppliers, storage locations) - The system must support bi-directional communication with Sage 300.
Master Data Mapping	<ul style="list-style-type: none"> - Ability to map Sage 300 master data with Oil Industry standard codes: Product codes, Message Types, Customer and supplier identifiers (Partner Codes), Storage locations, Transport modes - Maintain a configurable mapping table for continuous alignment
Data Validation, Translation and EDI message creation	<ul style="list-style-type: none"> - Validate inbound messages against business rules (e.g., correct product codes, valid storage location, sufficient inventory).

	<ul style="list-style-type: none"> - Translate industry-standard EDI messages into Sage 300-compatible records. - Translate Sage 300-generated data into industry-standard EDI messages.
Exception Handling	<ul style="list-style-type: none"> - Log rejected or failed messages with clear error descriptions. - Provide a dashboard for monitoring EDI transactions and error handling. - Support reprocessing of corrected messages
Reporting and Audit	<ul style="list-style-type: none"> - Maintain a complete audit trail of inbound/outbound messages. - Provide exception and transaction reports - Provide stock level views and movements for non EDI throughput customers via a web access-controlled interface
Contact Support	Option for customers to submit queries or support tickets, integrated via email or ticketing system.

Requirement	Description
Security	<ul style="list-style-type: none"> - Data must be encrypted in transit and at rest. - Solution must support secure communication protocols (e.g. SFTP, API with token authentication).
Performance	<ul style="list-style-type: none"> - System must handle high transaction volumes with minimal latency. - Responses to inbound messages must be generated within defined EDI Forum rules
Availability	<ul style="list-style-type: none"> - System must have uptime of at least 99.5%. - Must include failover and backup recovery mechanisms.
Compatibility	<ul style="list-style-type: none"> - Support EDI standard adopted by the industry e.g. EDIFACT
Audit Trail	<ul style="list-style-type: none"> - All transactions should be logged for audit and traceability.
Training	<ul style="list-style-type: none"> - Training to be developed and provided to the customers
Compliance	<ul style="list-style-type: none"> - Must comply with Oil Industry EDI Forum standards, governance rules, and security guidelines.



Scalability	<ul style="list-style-type: none">- System must support additional message types in the future.- Solution must scale to handle additional trading partners without major reconfiguration.
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