ISO 8000 & PIDX
Cross-Enterprise Master Data
OFS PORTAL LLC
Inter-Operability is Our Mission

Scalable Supply Chain Digitalization for a Global Oil & Gas Industry

Standard Inter-Operability Framework for eCommerce with Data Protection, Ownership and Security built in

Standard Catalog Process for all Suppliers and Operators

Standard Transaction Management Using Open PIDX Standards
Key Services

OFS PORTAL MEMBERSHIP BENEFITS

LEGAL FRAMEWORK

CATALOG MANAGEMENT & SYNDICATION

OILB2B INTEGRATION
eCommerce Growth

DIRECT CORRELATION TO NUMBER OF AGREEMENTS
Catalog Requests

OPERATORS’ CATALOG REQUESTS GROWS
Problem Statement

How to Synchronize Supplier Part Numbers with Operator Material Numbers?

Operator Requires Suppliers to hold their Unique ERP Material Number for the Suppliers Part Number

The buyer often asks the supplier to host this unique and highly specific number against a contract for goods or services.

The material number is a random number generated by the ERP. Attributes are associated to the material number. Standard Materials Descriptions are added to the material number – Operator Specific descriptions.

Many Operators request this of the large suppliers. Storing 300 different customer numbers for the same supplier part number is not feasible nor cost effective for the suppliers to manage in their ERP.
ISO 8000

ISO 8000 is the global standard for Data Quality and Enterprise Master Data.

It describes the features and defines the requirements for standard exchange of Master Data among business partners.

It establishes the concept of Portability as a requirement for Enterprise Master Data, and the concept that true Enterprise Master Data is unique to each organization.

Opportunity for PIDX Workgroup to understand how ISO 8000 can help Oil & Gas
New Integrations

BEING DEVELOPED WITH PIDX STANDARDS

Vendor Managed Stock
- Supply Base & Warehouse Partners

Inventory & Warehouse
- Inventory Balance/Inventory Balance Response

P2P
- Sourcing RFI/RFP
- Master Data Management
- Contract Management
- Catalogs
- Request for Quote
- Purchase Requisition
- Purchase Order
- Goods Receipt/Service Entry
- Invoice Response
- Payment Remittance Advice

O2C
- Bid Response
- Catalog Data
- Quote Provided
- PO Change/Confirmation
- Field Ticket/Delivery
- Invoice
- Payment Received

Onshore Logistics
- Offshore Logistics
- 3PL & Carriers

Logistics & Shipping
- Advanced Ship Notice
## PIDX Standards

### EXPLORATION
- ASN
- BillOfLadingCreate
- BillOfLadingResponse
- CementingTemplate
- CustodyTicket
- FieldTicket
- FieldTicketResponse
- Enhanced Price Sheet
- Price Sheet Mapping

### DRILLING
- InventoryBalance
- InventoryBalanceRequest
- Invoice
- InvoiceResponse
- OrderChange
- OrderCreate
- OrderResponse

### PRODUCTION
- OrderStatusRequest
- OrderStatusResponse
- PIDXCodeLists
- PIDXLib
- PipelineNominationChange
- PipelineNominationCreate
- PipelineNominationResponse

### PROCESS
- PipelineSchedule
- PriceSheet
- Quote
- QuoteNotification
- QuoteRequest
- Receipt
- RequestRequisitionReturn

### TRANSPORT
- LoadingDeliveryReceipt
- PIDX Bill Of Lading
- RightToLift
- CODE Crude Oil Data Exchange
- EDI GRADE-Gas Revenue Accounting Data Exchange

### REFINING
- Downstream Product Codes
- Downstream Product Code Definition
- Downstream Company Codes

### MARKETING
- Downstream Terminal Listing
OFS Portal Catalog Management tool allows suppliers to send all price books in ONE format to all their customers.
Proof of Concept

INTERMEDIARY PROCESS TO AUGMENT CATALOG SYNDICATION

Today’s Model
Supplier Catalog Syndicated to Operator

CATALOG MANAGEMENT & SYNDICATION

ECOMMERCE PLATFORM or ERP SYSTEM
Proof of Concept

INTERMEDIARY PROCESS TO AUGMENT CATALOG SYNDICATION

Matching Supplier Part Numbers to Operator Material Numbers from the Supplier Catalog

Auto-Match Supplier Part Number to Operator Material Number

Verified Part Number to Material Number

Operator Approves Matching One Time

CATALOG MANAGEMENT & SYNDICATION

ECOMMERCE PLATFORM or ERP SYSTEM

Operator’s ERP
Proof of Concept
INTERMEDIARY PROCESS TO AUGMENT CATALOG SYNDICATION

Accuracy Improves to Facilitate Robotic Automation

CATALOG MANAGEMENT & SYNDICATION

Auto-Match Supplier Part Number to Operator Material Number

Verified Part Number to Material Number

ECOMMERCE PLATFORM or ERP SYSTEM

Operator’s ERP
POC Demonstration

sparesFinder to Provide
Lessons Learned

Cross-Enterprise Master Data Synchronization

It is possible to build a library of Operator’s Material Numbers that match Supplier Part Numbers.

Time and effort is required to complete and approve the initial mapping, but no more than is done today inside the Operator’s MDM process.

Re-use of the mapping can be automated during contract renewal and catalog re-syndication.

Once the SPN & the MMN have been matched, additional data matching can occur – such as Standard Material Descriptions from the Operator.

Suppliers can perform a reverse lookup, material number to supplier part number.

The supplier and the operator must jointly approve the use of the mapping.

Accuracy improves over time, facilitates the move to robotic automation and tighter integration between Supplier and Operator.
Our Mission: Inter-Operability

Best in Class Standard Inter-Operability Framework for eCommerce

300+ Oil Companies & NOCs

35+ eCommerce Networks

Standard catalog process for all Suppliers & Operators

Standard Transaction Management using open standards

Scalable supply chain digitalization for a global Oil & Gas industry