

ISO 8000 & PIDX

# Cross-Enterprise Master Data

OFS PORTAL LLC

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# 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

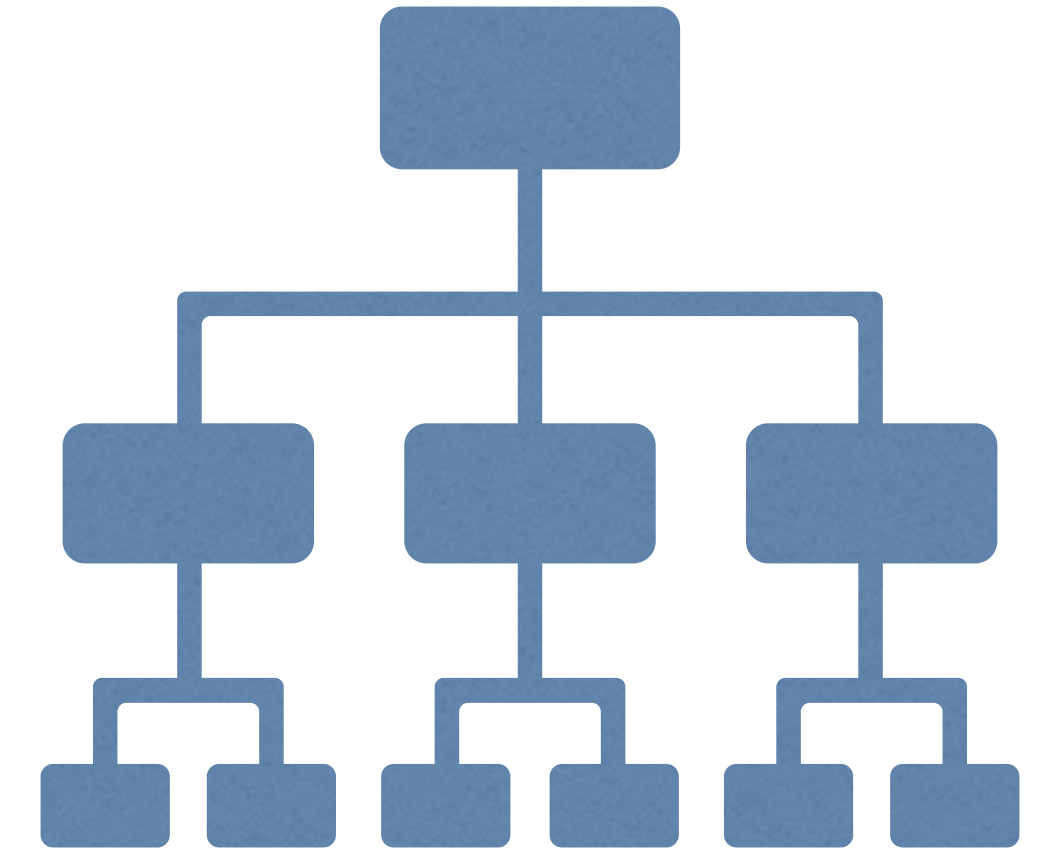
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LEGAL FRAMEWORK



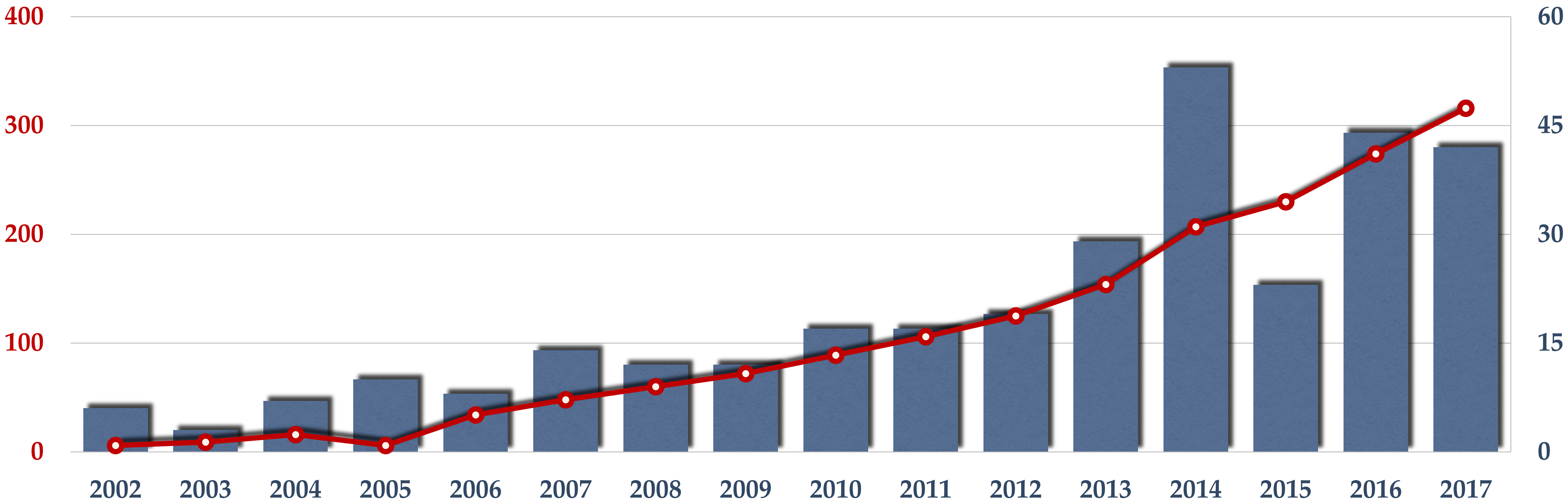
CATALOG MANAGEMENT  
&  
SYNDICATION



OILB2B INTEGRATION

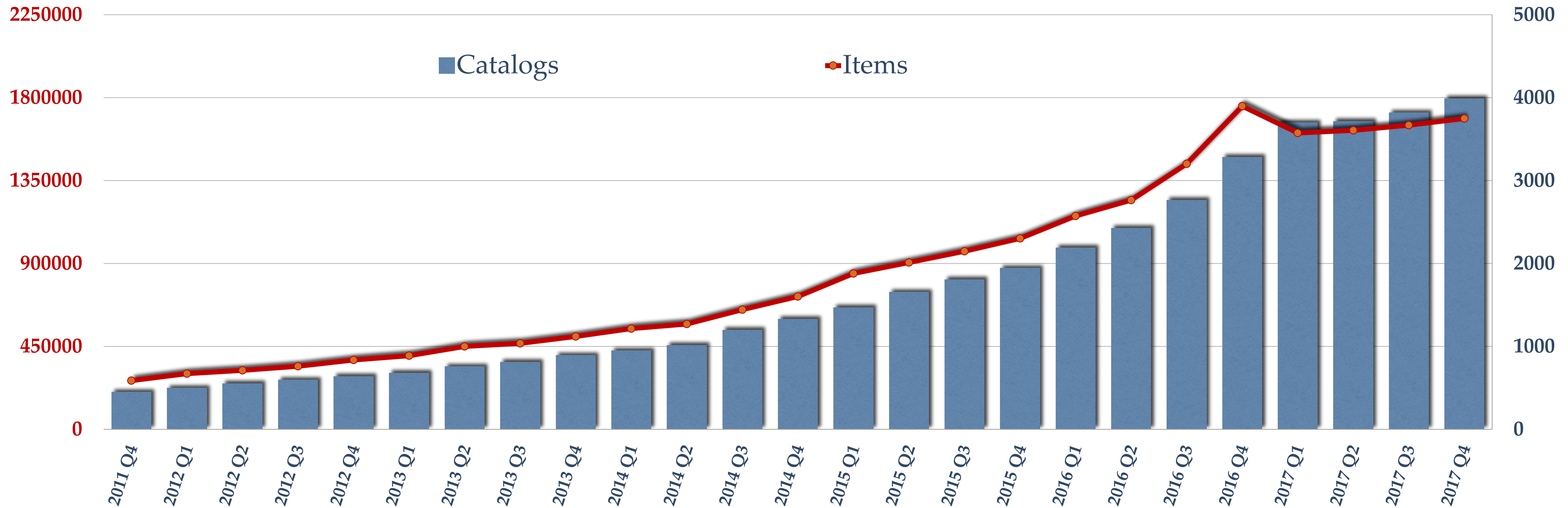
# eCommerce Growth

DIRECT CORRELATION TO NUMBER OF AGREEMENTS



# Catalog Requests

OPERATORS' CATALOG REQUESTS GROWS



# Problem Statement

How to Synchronize Supplier Part Numbers with Operator Material Numbers?

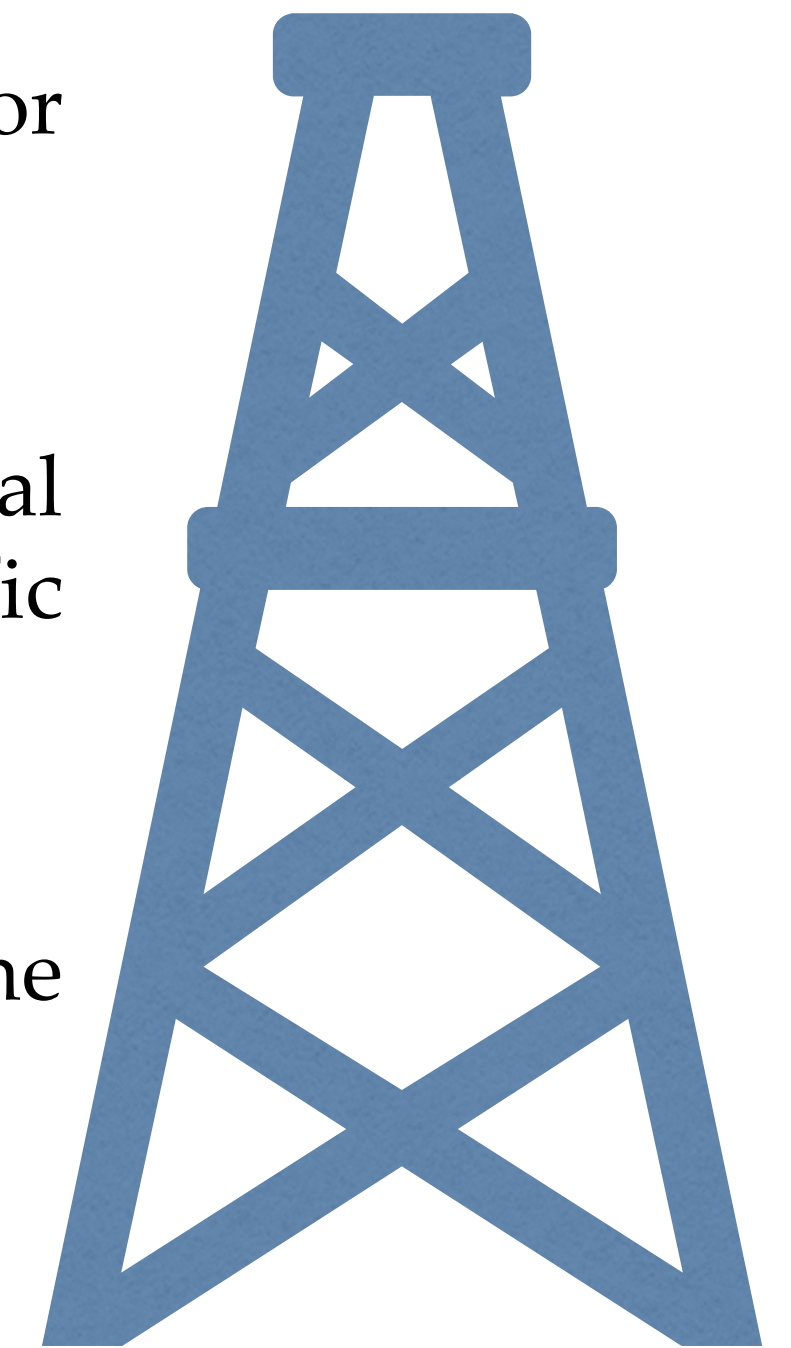
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## **Operator Requires Suppliers to hold their Unique ERP Material Number for the Suppliers Part Number**

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.

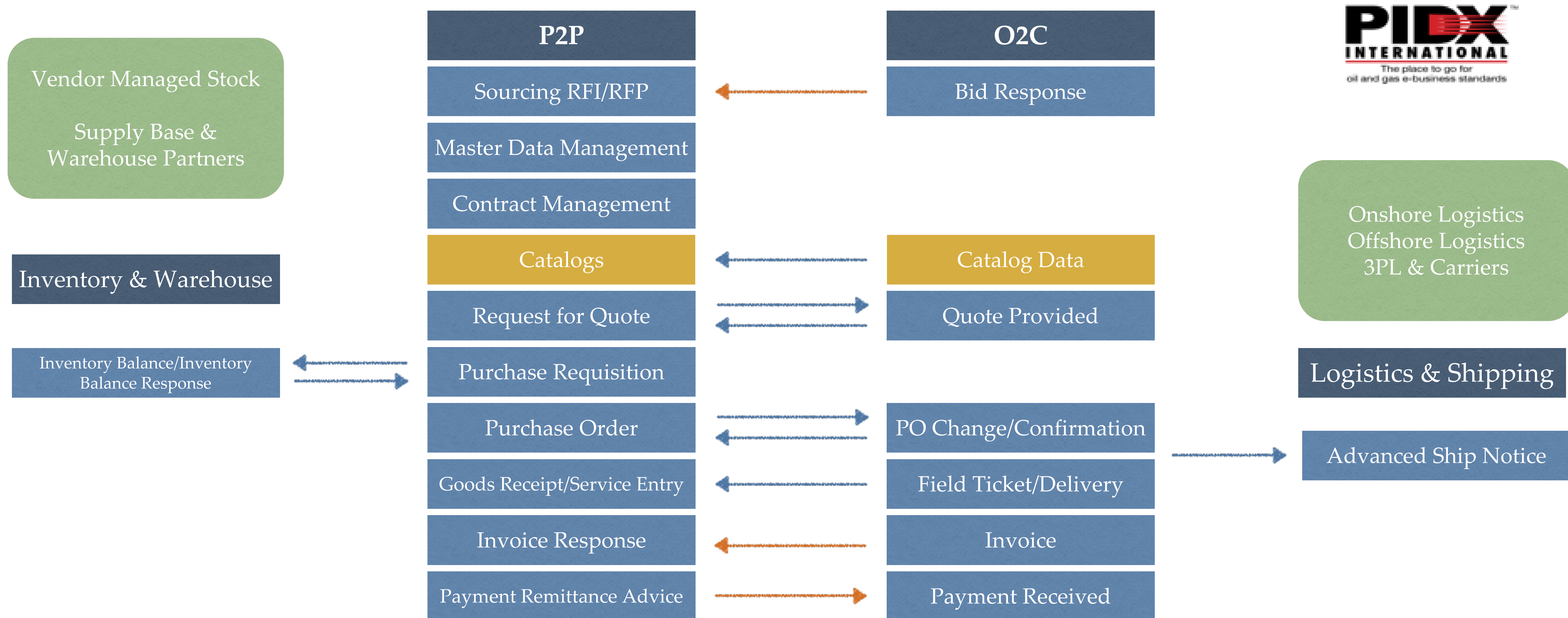
It establishes the concept of Portability as a requirement for Enterprise Master Data, and the concept that true Enterprise Master Data is unique to each organization.

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



# New Integrations

BEING DEVELOPED WITH PIDX STANDARDS





# PIDX Standards



EXPLORATION

DRILLING

PRODUCTION

PROCESS

TRANSPORT

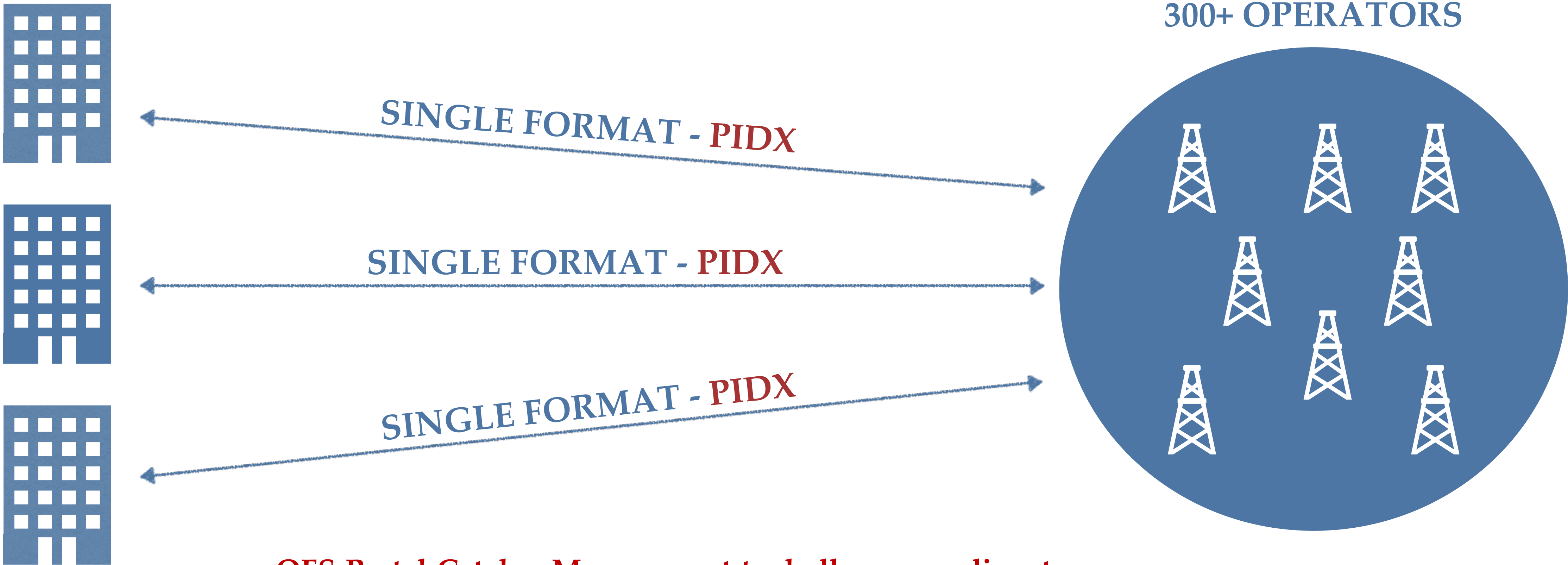
REFINING

MARKETING

ASN	InventoryBalance	OrderStatusRequest	PipelineSchedule
BillOfLadingCreate	InventoryBalanceRequest	OrderStatusResponse	PriceSheet
BillOfLadingResponse	Invoice	PIDXCodeLists	Quote
CementingTemplate	InvoiceResponse	PIDXLib	QuoteNotification
CustodyTicket	OrderChange	PipelineNominationChange	QuoteRequest
FieldTicket	OrderCreate	PipelineNominationCreate	Receipt
FieldTicketResponse	OrderResponse	PipelineNominationResponse	RequestRequisitionReturn
Enhanced Price Sheet		LoadingDeliveryReceipt	Downstream Product Codes
Price Sheet Mapping		PIDX Bill Of Lading	Downstream Product Code Definition
		RightToLift	Downstream Company Codes
Pre-Qualification Standard Data Model		CODE Crude Oil Data Exchange	Downstream Terminal Listing
Supplier Registration and Prequalification Data Standard		EDI GRADE-Gas Revenue Accounting Data Exchange	

# Catalog Management & Standards

END-TO-END AUTOMATION - AUTO UPLOAD/AUTO PUBLISH

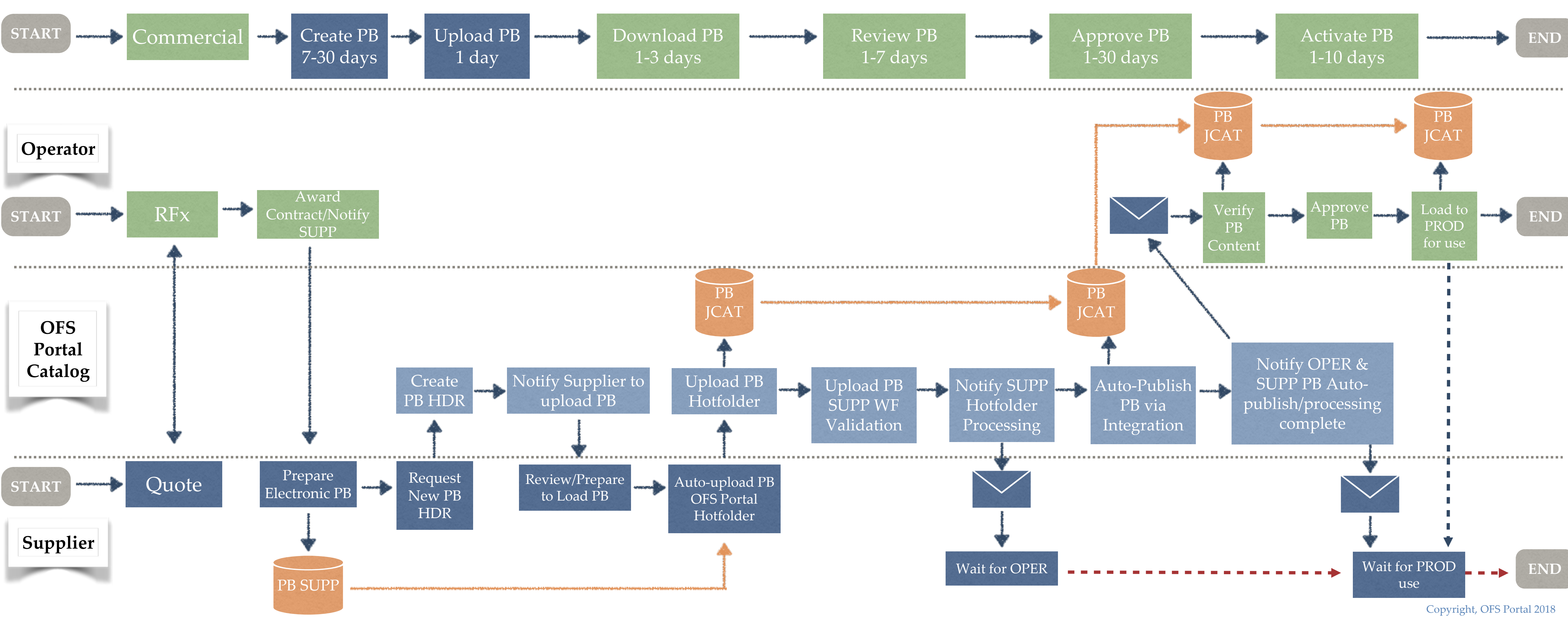


**OFS Portal Catalog Management tool allows suppliers to send all price books in ONE format to all their customers.**

# Catalog Syndication

END-TO-END AUTOMATED SYSTEM

<b>RFx</b>	Sourcing
<b>OPER</b>	Operator
<b>SUPP</b>	Supplier
<b>HDR</b>	Header
<b>PB</b>	Price book/Contract items/price
<b>PROD</b>	Production

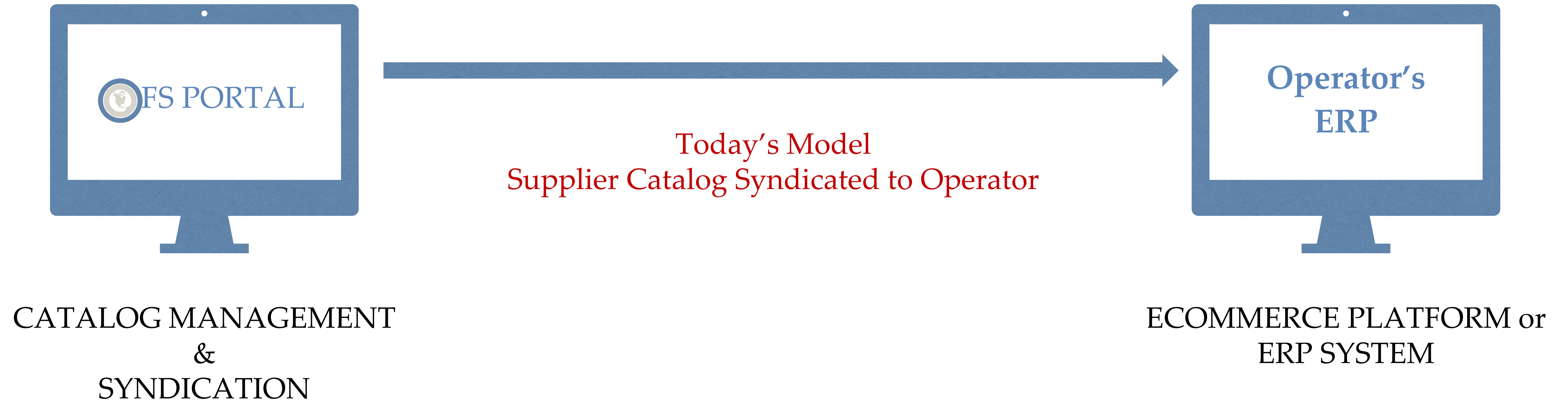


# Proof of Concept

INTERMEDIARY PROCESS TO AUGMENT CATALOG SYNDICATION

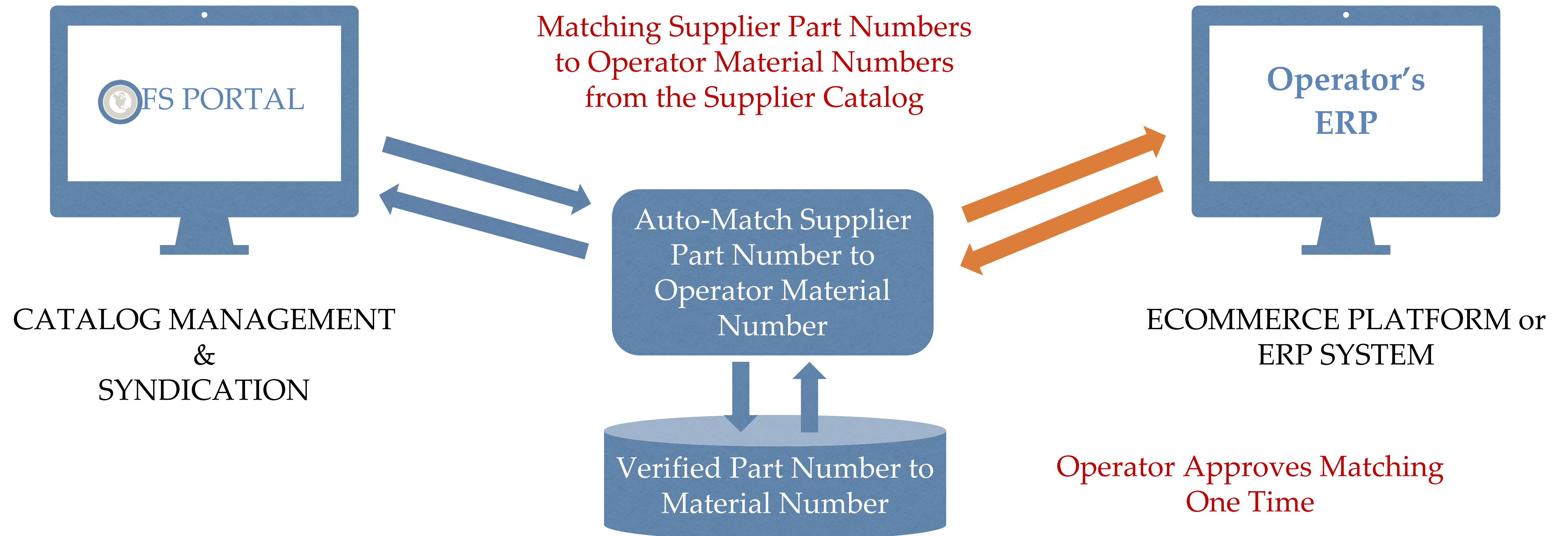
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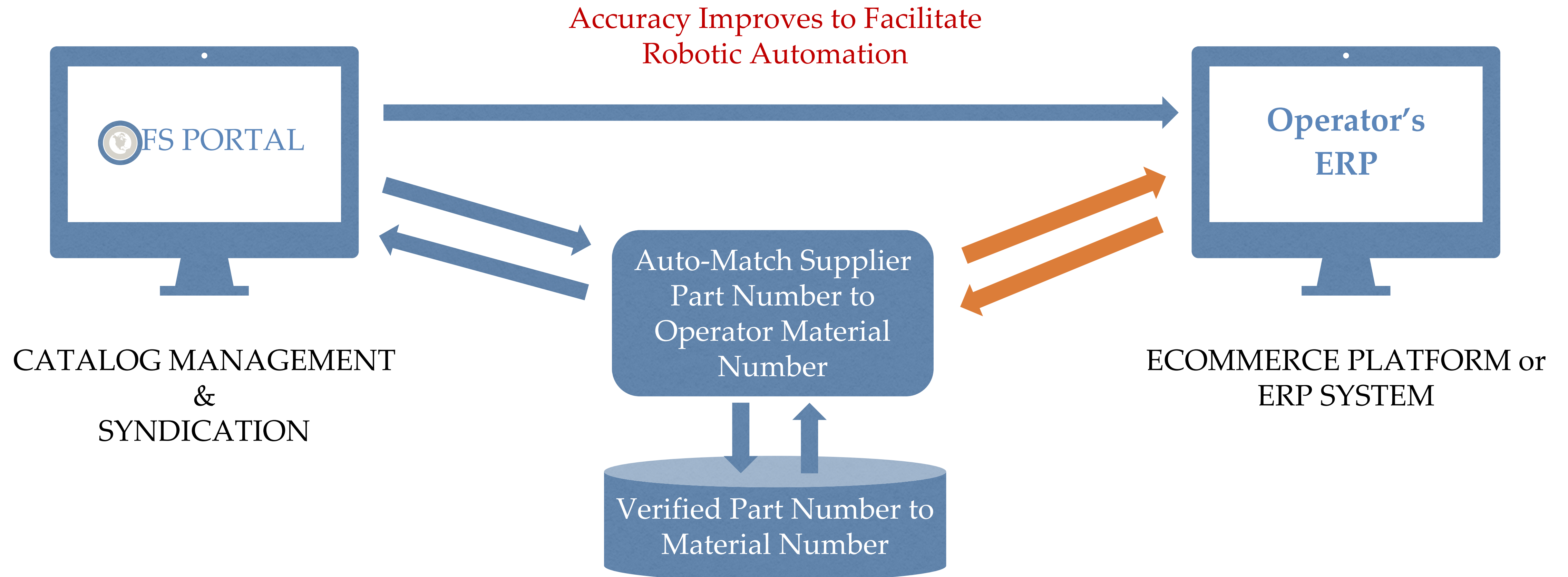
# Proof of Concept

INTERMEDIARY PROCESS TO AUGMENT CATALOG SYNDICATION



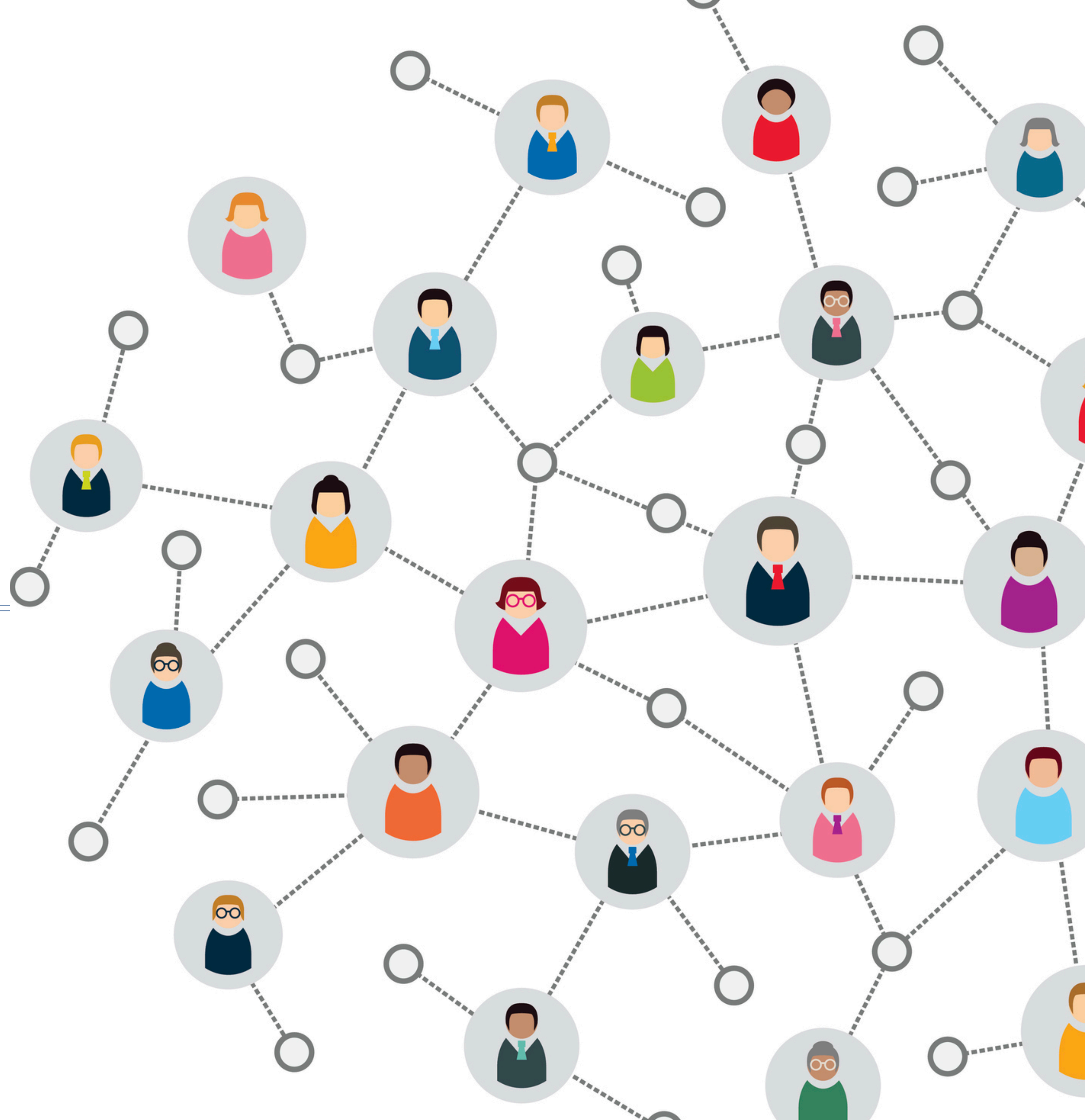
# Proof of Concept

INTERMEDIARY PROCESS TO AUGMENT CATALOG SYNDICATION



# POC Demonstration

sparesFinder to Provide



# Lessons Learned

## Cross-Enterprise Master Data Synchronization

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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.

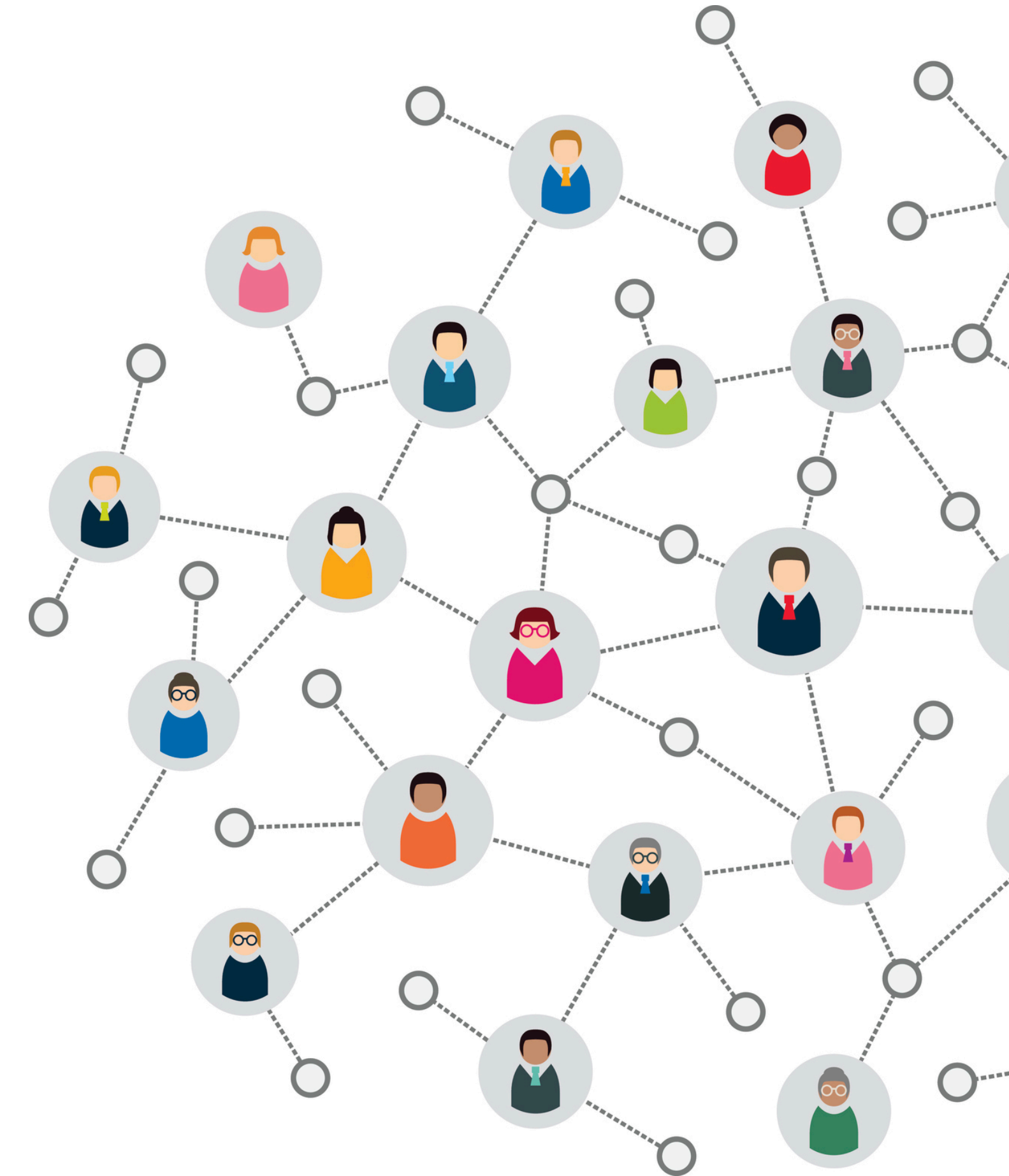
Re-use of the mapping can be automated during contract renewal and catalog re-syndication.

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

