

THE ENDURING POWER OF AUTOMATED PRICE VALIDATION IN THE ENERGY SUPPLY CHAIN FROM YESTERDAY TO TODAY



OFS PORTAL™
TRUSTED ENERGY SUPPLY CHAIN NETWORK

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In today's fast-paced business environment, operators face immense pressure to streamline their processes and reduce costs. One area where significant improvement can be achieved is the Procurement-to-Pay (P2P) process, especially in automating Price Validation. By implementing Automated Price Validation (APV), operators can simplify the invoicing process, enhance visibility, and drastically improve both operational efficiency and financial control.

WHAT IS AUTOMATED PRICE VALIDATION (APV)?

Automated Price Validation is a technology-driven process that checks invoice pricing against the terms specified in supplier contracts. Rather than relying on manual oversight for each line item, APV ensures that invoices are automatically validated based on preset criteria, reducing human intervention. This automation minimizes errors, accelerates invoice approval, and improves overall financial visibility for both energy industry suppliers and operators.

At its core, APV isn't just about adopting new technology—it's about optimizing the entire P2P process. Understanding this broader process is crucial before attempting to automate any part of it. Automation can't fix a broken process, but it can significantly enhance an already well-structured system.

THE ROLE OF APV IN THE P2P PROCESS

To successfully implement APV, operators need to understand and optimize their P2P process. A clear grasp of the complete workflow—from procurement through to payment—is essential. The effectiveness of APV relies on smooth integration between departments like Procurement, Finance, and Accounts Payable. Collaboration across these departments ensures that business objectives are aligned, and the full potential of automation is realized.

The ROI of Automation in Finance & P2P. The CFO, April 2021.

General Reference: OFS Portal Catalog Management & Syndication. OFS Portal, 2025.

General Reference: Automated Price Validation. OFS Portal, 2015.

According to a Total Economic Impact (TEI) study, jointly conducted by Baseware and Forrester Consulting,

COMPANIES CAN REALIZE A:

 **315%**
ROI

AND A NET PRESENT VALUE OF

 **\$3.84m**

OVER THREE YEARS.¹

By automating price validation, APV reduces manual workloads, speeds up approval times, and reduces operator costs. Most importantly, it provides real-time visibility into working capital, supporting more informed decision-making. Furthermore, APV accelerates dispute resolution, enabling faster billing and improving the operator's bottom line.

With its structured data, APV also supports enhanced spend analytics, placing more spend under active management. This added visibility helps operators not only improve operational efficiency but also gain greater control over contract compliance and curb maverick spend.

HOW SUPPLIERS CAN OPERATIONALLY FURTHER AUTOMATED PRICE VALIDATION

To fully support customers' Automated Price Validation (APV) efforts, suppliers must take proactive steps to ensure their own processes—particularly around pricing and catalog management—are accurate, consistent, and automation-ready.

While many APV initiatives are driven by operators, suppliers play a critical role in ensuring success. A key enabler of this is the implementation of an automated [Catalog Management & Syndication tool](#). For suppliers, this tool not only supports APV but also improves internal efficiency, reduces invoice disputes, and strengthens customer relationships.

Before automation can deliver real value, it's essential for suppliers to ensure their catalog data—pricebooks, product descriptions, terms—is clean, current, and aligned with contract terms. Once this foundation is in place, automating catalog updates and syndication directly enhances the accuracy and reliability of the APV process for both parties.

PHASES OF SUPPLY CHAIN MATURITY

The Energy Industry Digital Procurement Integration

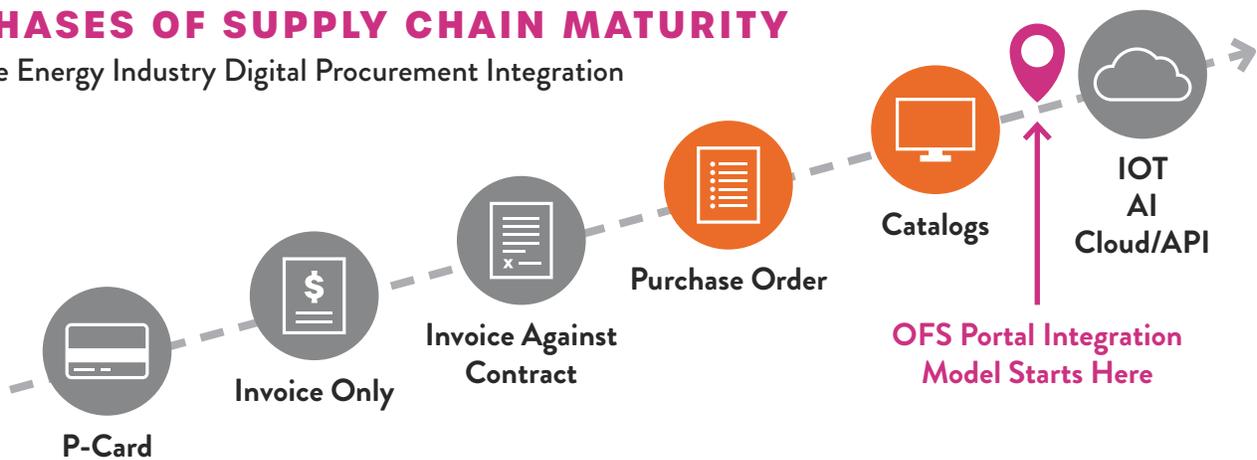


Figure 1: The OFS Portal integration model is an integral part of the supply chain's maturity. It provides a secure and streamlined operational model that easily fits into the supply chain process, and provides legal agreements that protect suppliers, customers, and networks.

Implementing a robust, automated catalog management solution allows suppliers to proactively provide validated, structured pricing information to their customers—minimizing pricing discrepancies, reducing the risk of rejected invoices, and improving payment timelines.

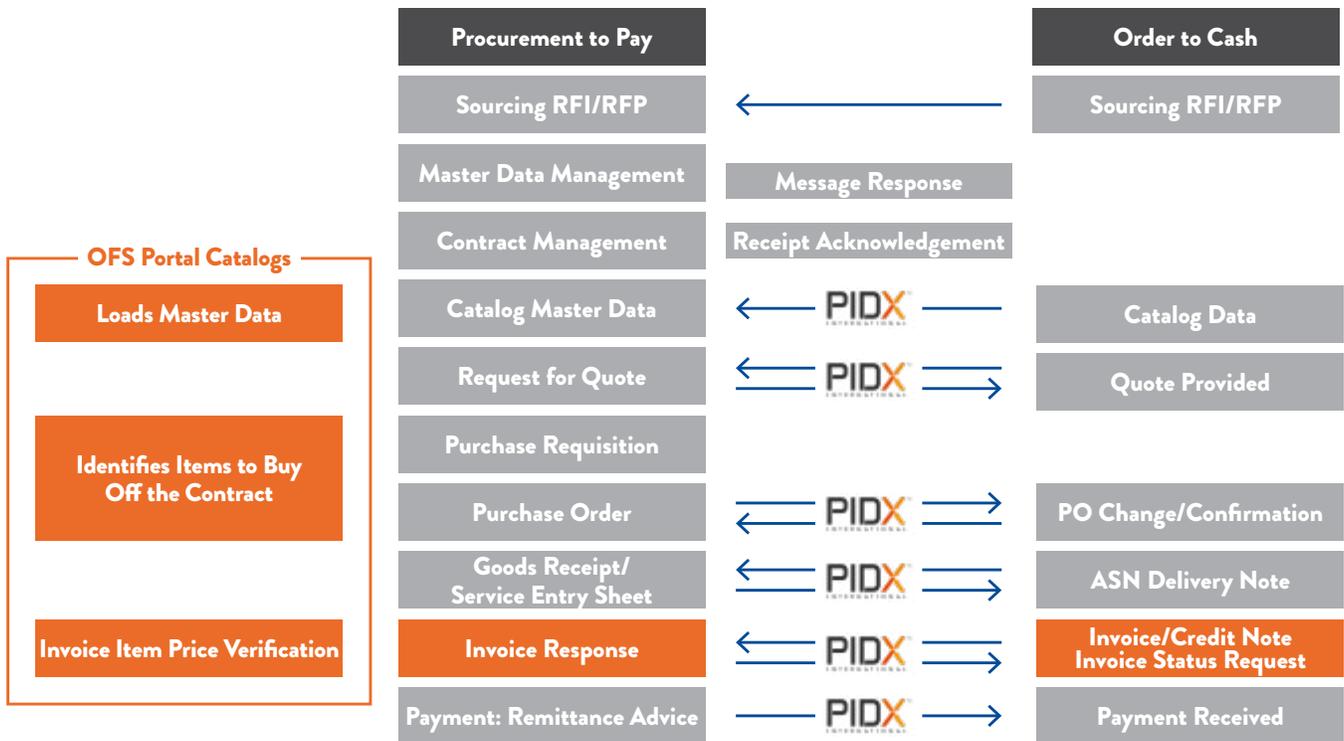


Figure 2: Automated price validation in action—leveraging supplier-published catalogs through OFS Portal during the invoice response stage.

WHY CATALOG MANAGEMENT & SYNDICATION MATTER FOR APV:

Standardization

A standardized catalog—commonly referred to as a pricebook—ensures consistency in product listings, descriptions, and pricing structures. This uniformity allows APV systems to efficiently and accurately validate invoice data against contracted terms, reducing mismatches and manual intervention.

Data Integrity and Security

Automated catalog tools enforce strict controls around data accuracy and security. By leveraging industry-standard protocols, suppliers can securely share sensitive pricing information across platforms and partners, fostering trust and protecting the integrity of data used in the APV process.

Seamless Multi-Channel Syndication

Catalog syndication tools enable real-time, consistent distribution of product and pricing information across all relevant systems—supplier ERPs, customer procurement platforms, and third-party networks. This ensures that every stakeholder works from a single, authoritative source of truth, which is critical for accurate price validation.

Format and Data Consistency

APV systems depend on consistent, structured data to function effectively. By adopting industry-standard formats such as PIDX XML for pricebooks and invoices, suppliers and operators can eliminate formatting discrepancies, streamline data integration, and enable faster, more reliable price checks within the APV workflow.



Figure 2: Automated price validation in action—leveraging supplier-published catalogs through OFS Portal during the invoice response stage.

Implementing a standardized, automated Catalog Management & Syndication tool is a strategic move that delivers value to both suppliers and operators across the supply chain.

For suppliers, it's more than just a technical upgrade—it positions them as efficient, accurate, and responsive partners. By providing standardized, validated catalog data, suppliers directly support Automated Price Validation (APV), helping to reduce operational friction, minimize invoice disputes, and strengthen financial performance. APV shortens invoice approval times for operators, which in turn reduces Days Sales Outstanding (DSO) for suppliers, leading to improved payment performance.

For operators, incorporating this tool into the APV process helps reduce pricing errors, streamline procurement operations, and ensure that automated validation runs smoothly and accurately. A well-structured catalog—securely managed and efficiently syndicated—ensures consistent access to contract-aligned pricing data, forming the foundation for successful APV implementation and a more mature, digitally connected supply chain.

A COLLABORATIVE APPROACH WITH SUPPLIERS

The success of any APV process also depends on how well suppliers are integrated into the system. Operators should consider the technological capabilities of their suppliers, ensuring that they can easily share data in compatible formats. Engaging suppliers early and promoting the adoption of industry standards will reduce onboarding costs for both the operator and the supplier.

A smooth and collaborative relationship with suppliers ensures that purchase orders, pricebooks, and invoices align perfectly, minimizing the need for manual checks.

TRANSFORMING CATALOG MANAGEMENT:

A Real Use Case for Automated Price Validation, Scalability, and Secure Syndication

PROBLEM

A global OFS Portal Member managing hundreds of pricebooks across dozens of operators faced the increasing burden of formatting catalogs differently for each customer, exchanging them through unsecure methods like email or file shares. Each pricebook could include up to tens of thousands of line items, and every update required duplicated effort, version tracking headaches, and a growing risk of errors or miscommunication.

- **Format Inconsistency** (operators require different catalog formats, forcing suppliers to manage multiple versions—added complexity and increases error)
- **Heavy manual workload** (slows down updates, delays deliveries, drains resources)
- **Unsecure Exchanges** (often shared via email or ad hoc methods, creating security, compliance, and accuracy issues)
- **Limited Visibility & Control:** Lack of a centralized system makes tracking versions, approvals, and changes difficult.
- **Scalability & Collaboration Challenges**

SOLUTION

To address the complexity, inconsistency, and security risks of managing and exchanging hundreds of pricebooks annually—often across different formats for different operators—OFS Portal provided a Catalog Management & Syndication tool purpose-built for its members.

The solution integrates directly into a supplier's ERP system, enabling seamless auto-uploading, real-time version control, and Delta reporting within a single, standardized format. This eliminates the need to customize catalogs per customer, reduces manual errors, and significantly improves scalability.

Critically, the tool operates within OFS Portal's trusted legal and operational framework, ensuring data integrity, ownership, and stewardship, while protecting commercially sensitive information through secure, consistent exchange methods.

By leveraging this platform, members also gain the ability to reference catalog data for accurate 2- to 3-way invoice matching, further streamlining financial reconciliation and strengthening collaboration with operators across the industry.

✓ OUTCOME

By implementing the OFS Portal Catalog Management & Syndication tool, this member was able to:

- **Integrate directly with their ERP system**, allowing catalogs to be uploaded and maintained from the source of truth without duplicative manual work.
- **Standardize catalog formatting across all customers**, regardless of individual operator preferences, reducing complexity and internal workload.
- **Automate uploads and updates**, with real-time version control and Delta reports that flag only the changes—eliminating the confusion of full-file resubmissions and making audit trails crystal clear.
- **Ensure secure catalog delivery**, using a platform embedded within the OFS Portal legal and operational framework, which protects commercially sensitive information while honoring data ownership and stewardship commitments.
- **Enable 2- to 3-way invoice matching**, referencing catalog data directly for accurate reconciliation and faster processing—freeing up valuable time for both the supplier and the operator.

The result? A scalable, secure, and collaborative system that empowered the member to manage catalog complexity with confidence, improve data integrity, and strengthen commercial trust across their customer base—while reducing costs and time spent on manual processes.

⚙️ ADDED AUTOMATED PRICE VALIDATION

The OFS Portal Catalog Management & Syndication tool can be leveraged to automate price validation as part of the catalog upload process. By linking catalog data directly into the system, real-time price checks can be incorporated, ensuring that all submitted prices align with predefined rules and agreements before they are exchanged with operators. This eliminates the manual validation process, reducing errors, compliance risks, and ensuring that only valid, pre-approved prices are included in the final catalog.

This integration simplifies pricebook updates, improves pricing consistency, and helps ensure that suppliers and operators are always aligned on pricing terms, reducing disputes and delays in the procurement process.

📅 IMPLEMENTATION TIMELINE

Implementation to full usage takes just a few days: one day for setup, one day to train suppliers, and one day to set up and train new buyers.

💰 COST

Included in the OFS Portal Subscriber Membership

MONITORING EFFECTIVENESS AFTER THE PILOT PHASE

After deploying the APV system in a pilot phase, it's crucial to monitor its effectiveness. Reporting the results to both internal stakeholders and suppliers will help identify any areas for improvement or flag new issues. For example, if there is a noticeable decrease in the number of items automatically validated, it may signal a change in the process, either at the operator's or supplier's end.

Key metrics to track include the percentage of invoices automatically validated, time to approval, and dispute resolution speed. These metrics will help operators quantify the benefits of automation and continuously refine the process.

MEASURING SUCCESS AND CONTINUOUS IMPROVEMENT

Success is measured by comparing pre- and post-pilot phase metrics. A key indicator of success is the increase in touchless invoices—i.e., invoices that require no manual review. The faster the invoice approval process becomes, the more value APV delivers to the operator.

By segmenting suppliers based on capabilities and rolling out the APV process in phases, operators can ensure a smooth transition to full-scale implementation. Regularly evaluating performance against baseline metrics will demonstrate the ongoing value of APV, making it clear that automation delivers tangible benefits.

REDUCE OVERHEAD AND IMPROVE VISIBILITY

The Automated Price Validation process is a game-changer for operators who seek to optimize their Procurement-to-Pay process. By automating the price validation process, operators reduce overhead, improve visibility, and streamline operations. The result is greater control over contract compliance, reduced maverick spends, and improved supplier relationships.

When implemented as part of a well-optimized P2P framework, APV not only reduces costs but also accelerates the dispute resolution process, enhances spend analytics, and ultimately improves the operator's bottom line. The use of industry standards in developing the APV process ensures smooth integration with suppliers and promotes adoption, further improving scalability and maintainability.

A well-planned, phased implementation of APV delivers measurable value quickly, benefiting operators, suppliers, and stakeholders. By ensuring a repeatable and scalable process, operators can confidently move forward with a clear view of the measurable benefits that APV brings to the organization.



DRIVE YOUR ENERGY BUSINESS → FORWARD WITH OFS PORTAL MEMBERSHIP

At OFS Portal, we are proud pioneers in revolutionizing B2B eCommerce integrations for energy industry suppliers and service providers. Founded by eleven leading oilfield services firms—including ABB, Baker Hughes, Halliburton, Schlumberger, and Weatherford—OFS Portal has led the way in delivering standardized electronic catalog and service agreement information for over two decades.

Today, our Energy Supply Chain Network (ESCN) connects hundreds of multinational and regional leaders across the energy sector, providing a robust, secure, and efficient framework for digital transactions. Our collaborative network empowers supplier members to expand operations while ensuring data sovereignty, compliance, and protection across global markets.

Now, OFS Portal membership is available by subscription to all energy suppliers and service providers who have not previously joined OFS Portal, offering access to a transparent, innovative, and future-ready supply chain. With over 650 operators—including 18 of the top 20 Fortune 250 energy companies—and 50+ invoicing service providers already using our framework, you gain immediate access to a powerful, proven ecosystem.

As a subscription member, you'll benefit from:

- **Secure and streamlined Catalog Management & Syndication tools**, boosting supply chain visibility with real-time version control and enabling efficient two- to three-way invoice matching through a standardized data format.
- **Legal data protection and governance agreements pre-negotiated** with over 650 operators, ensuring your sensitive business information remains protected. Subscriber Members gain streamlined access to a framework supported by 50+ pre-established legal agreements with network providers—reducing complexity and enabling immediate data stewardship benefits with any of the 650+ operators who operate through those networks.
- **Ownership and transparency over your data**, allowing you to control how it is shared and processed throughout the energy supply chain.
- **Simplified global tax reporting compliance** with our eInvoicing access point. Subscriber Members can opt into our access point—powered by EDICOM—where country-specific tax requirements are already mapped and continuously updated as new mandates emerge. This enables built-in compliance across multiple jurisdictions.
- **Participation in cross-industry eInvoicing forums** (such as DBNAlliance and Exchange Summit), where best practices, challenges, and country-specific mandates are tackled collectively.
- **A direct role in driving sustainability, decarbonization, and circular economy principles** across the energy industry.

At OFS Portal, we don't just help you navigate digital transformation—we position you at the forefront of the energy sector's evolution. Whether you're expanding into new markets or strengthening existing relationships, our standardized operational and legal framework gives you the tools to grow securely, efficiently, and sustainably.

Don't miss your opportunity to be part of a forward-thinking network that is shaping the future of energy.

Learn more about OFS Portal membership today at www.ofs-portal.com.



SUBSCRIBE TO OUR CONTENT

ABOUT OFS PORTAL

At OFS Portal, we are proud pioneers in revolutionizing B2B eCommerce integrations for Energy Industry suppliers and service providers. Founded by twelve leading oilfield services firms, including ABB, Baker Hughes, BJ Services, Cooper Cameron, ENSCO, FMC, Halliburton, National Oilwell, Schlumberger, Smith International, Transocean Sedco Forex, and Weatherford, OFS Portal has been at the forefront of standardized electronic catalog and service agreement information since our inception.

As the trusted Energy Supply Chain Network (ESCN) for over two decades, we have facilitated seamless digital transactions globally, connecting multinational and regional leaders in the Energy sector. Our collaborative network ensures secure and efficient transactions, empowering supplier members to expand operations while maintaining data security, sovereignty, and compliance with industry regulations.

Today, our membership includes a diverse array of industry leaders, leveraging our robust framework to streamline operations and drive profitability. Whether you're a current member or considering joining us, explore our comprehensive catalog services and discover how our legal framework supports your business and operators alike.

The current membership includes prominent companies such as Baker Hughes, Halliburton, and Wellbore Integrity Solutions. Moreover, the OFS Portal community and model have been embraced by over 650 operators, encompassing 18 out of the top 20 Fortune 250 companies, alongside 50 network providers.

