Incture®

LIVE WEBINAR

Rethinking Integration Architecture from PI/PO to SAP BTP

Speakers

Vineet Vikram, Incture

Integration Practice Head - NA

Vineet Vikram leads Incture's Integration practice for the North America customers, bringing 19 years of IT experience. He specializes in complex, multi-technology integration projects, crafting value propositions for market success. His background includes program management at Microsoft for Windows Servicing and Delivery, and product management for Azure Migrate. He has also managed SAP ERP implementations and cloud migrations, driving digital transformation for customers.

Rajkaran Singh Mundra, Incture

Associate Architect - Technology

Rajkaran Singh Mundra is an SAP Integration professional specializing in SAP Integration Suite, with extensive experience in designing and delivering scalable, enterprise-grade integration solutions. He has led multiple end-to-end integration implementations, enabling seamless connectivity across cloud and on-premise systems. With strong expertise in APIs, event-driven architectures, and reusable iFlow design, Rajkaran focuses on building efficient, resilient, and future-ready integration landscapes. He has played a key role in optimizing integration performance, resolving complex production challenges, and driving automation across projects. A strong advocate of best practices and innovation, Rajkaran actively explores emerging capabilities within SAP BTP and contributes to enhancing integration strategies. He is passionate about sharing practical insights and real-world experiences to help organizations accelerate their digital transformation journeys.

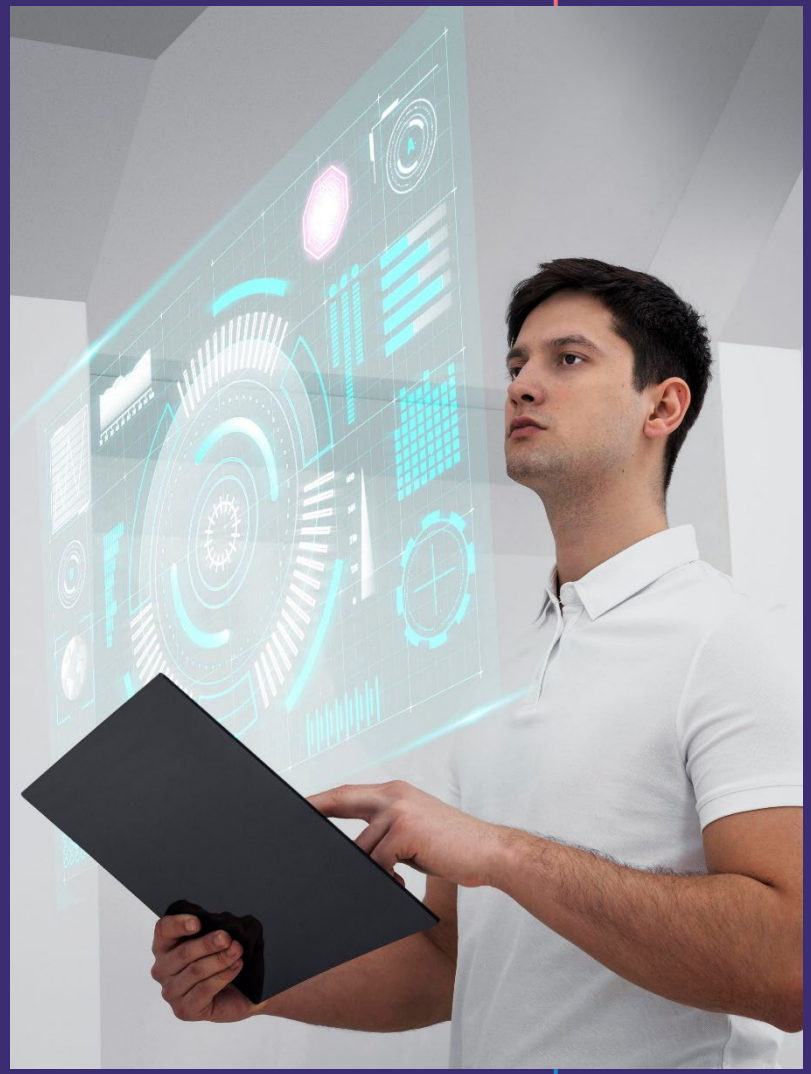
Mohammed Shahid Zaid, Incture

Lead Consultant - Technology

Mohammad Shahid Zaid is an experienced SAP Integration specialist with a strong focus on SAP Integration Suite. He brings hands-on expertise in building and delivering robust, scalable integration solutions that connect diverse cloud and on-premise systems seamlessly. He has worked across multiple end-to-end integration initiatives, where he has been instrumental in shaping reliable and efficient integration landscapes. His core strengths lie in API-led integration, event-driven architectures, and designing reusable iFlows that promote consistency and long-term maintainability. Shahid is known for his problem-solving mindset and ability to navigate complex production scenarios, ensuring stability and performance across integrations. He has also been actively involved in customer-facing engagements, where he effectively communicates technical concepts and demonstrates SAP BTP capabilities with clarity. Driven by a continuous learning approach, Shahid stays engaged with evolving SAP BTP innovations and applies them to improve integration strategies. He enjoys sharing his practical knowledge and insights, helping teams and organizations build more agile and future-ready integration ecosystems.

Agenda

- Incture’s Overview
- What’s Changing in Integration
- What BTP really Brings
- The Architectural Shift
- A Real Customer Example
- And What Good Looks Like
- Q&A



About Incture

Incture

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Our Offices:

- Global Headquarters
- Digital Delivery Hubs

Focus Industries

- CONSUMER INDUSTRIES
- ENERGY AND NATURAL RESOURCES
- MANUFACTURING
- LIFE SCIENCES

Our Customers

120 + Customers

50+ Fortune 500 Companies

Link

Our Partners

Link

SAP ABBYY TRICENTIS UiPath

Our Awards

SAP Innovation Awards 2025

SAP Pinnacle Awards 2022 Finalist

SAP Innovation Award Finalists 2021

SAP Innovation Awards 2020

SAP Innovation Awards 2019

50 Technology Fast 50 2020 INDIA WINNER Deloitte.

Digital and AI Portfolio

Digital Solutions

#BusinessGetsDigital

Our digital and AI solutions can extend your applications and integrate landscapes, enabling your business users to connect people, processes, and experiences to drive business innovation for future-ready enterprises.

cherrywork

#WorkGetsDone

Developed jointly with end users, Cherrywork® is an extensive suite of packaged applications and products powered by AI and Digital, delivering hyper-automation... #workgetsdone

Incture Value Adds

SAP BTP Partner Focused

Strong SAP Partnership:
- SAP Integration Migration Factory Partner
- SAP AppHaus Partner
- SAP BTP Dev and Beta Testing Partner
- SAP BTP Partner Advisory Council
- SAP Co-Innovation Lab (COIL) Partner

25+ Cherrywork applications on SAP Store, built on BTP

125+ BTP customers, including top Fortune 500 organizations

1200+ consultants & **300+** focused on Integration Implementations & Support

Prepackaged content & adapters implemented as partner-delivered content on SAP Business Hub

Multiple SAP awards & recognitions for BTP innovations including **SAP Pinnacle Award**

Senior SAP BTP leaders onboarded for customer advisory – Meet the Team

Trusted Advisor for Integration COE

30+ tools & accelerators developed to fast-track development and continuous improvement. Incture has developed a **Migration Toolkit** for SAP Integration Suite – Available on SAP Store

12+ customers engaged in BTP CoE setup, enablement, adoption of the latest SAP BTP services and DevOps

Awareness & enablement sessions conducted for **IT and Business teams** to drive efficient SAP BTP adoption and value realization

Incture DigitalLabs™ for rapid prototyping and Proof of Value for new services, aligning them with business use cases.

Operating plan defined & implemented for seamless collaboration across development and support teams on BTP.

Integration Suite Maturity enabler

75+ customers across NA supported in SAP Future Ready Enterprise model maturity elevation.

SAP Trusted Partner to drive **innovation** across Integration and **TCO Optimization**

Driving thought leadership & **Integration strategy** aligned with SAP's roadmap.

Proposing **architecture patterns** for diverse business use cases leveraging SAP ISA-M

Defining & **refining governance mechanisms**, including SOPs, to align with strategic roadmap.

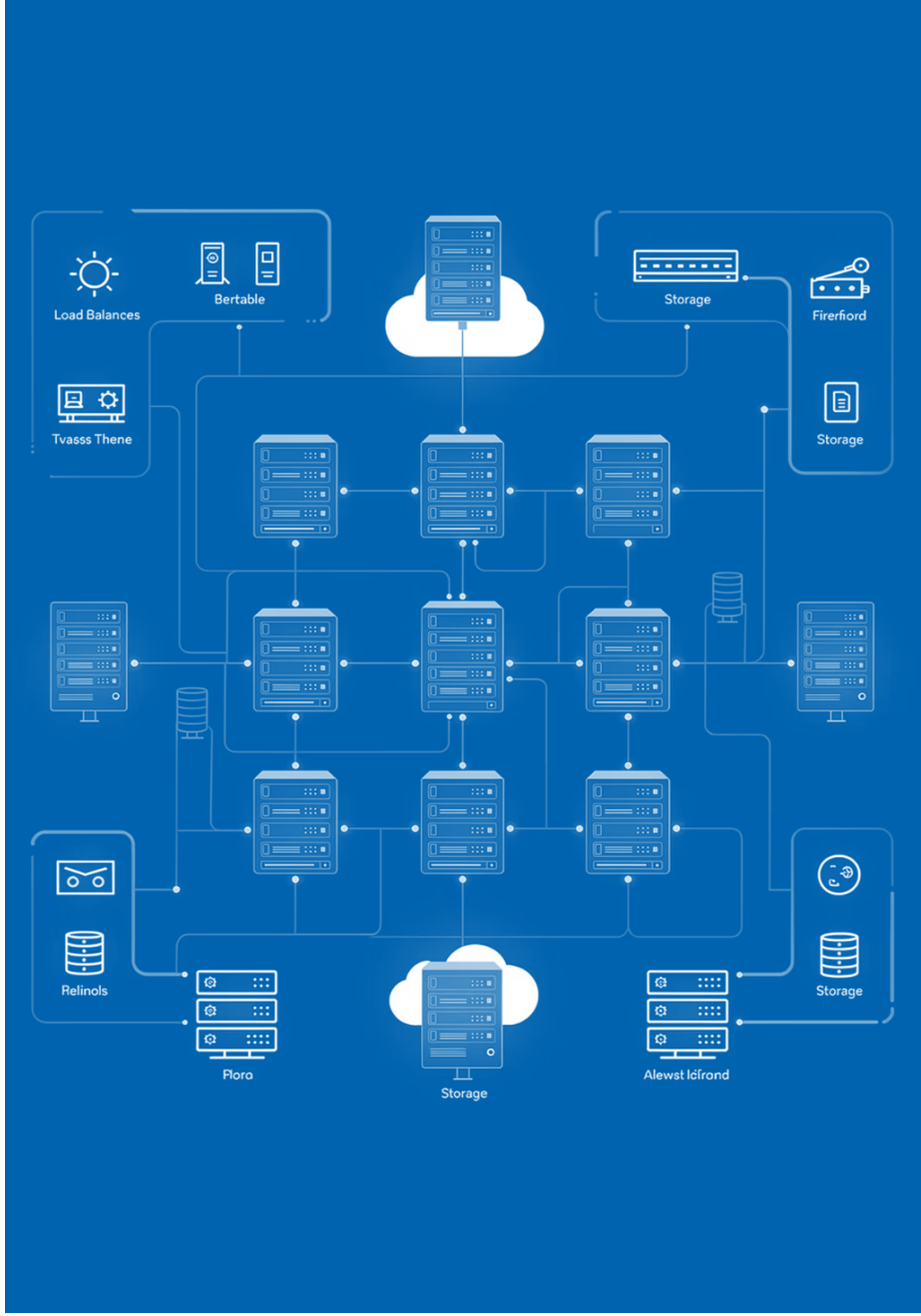
Largest SAP BTP Specialty Partner globally

SAP PO to SAP BTP Integration Suite

ENTERPRISE INTEGRATION | **ARCHITECTURE EVOLUTION**

Not a Lift-and-Shift — It's an Architectural Reset

A strategic guide for enterprise IT architects and integration leads navigating the transition from SAP Process Orchestration to SAP BTP Integration Suite — with precision, foresight, and architectural discipline.



Setting the Context

Where Most Customers Start

"We need to move interfaces from SAP PO to BTP Integration Suite — as fast as possible."

The instinct is understandable: there's a platform to retire, a deadline looming, and hundreds of interfaces waiting. Speed feels like the right priority.

What This Session Is Really About

This is not a migration checklist. It is a strategic conversation about how integration architecture is evolving — and what it takes to evolve with it.

Migration is a milestone. Architecture evolution is the goal. The two are not the same — and conflating them is where many programs fall short. Teams that treat this as a straight lift-and-shift consistently encounter the same avoidable failures: brittle integrations, unowned operations, and missed architectural opportunities.

SAP PO — A Strong Foundation

FOUNDATION

For over a decade, SAP Process Orchestration has been the backbone of enterprise integration. Its strength lies in platform-managed reliability and proven operational stability across complex landscapes.

Centralized Platform

Single middleware hub for all integration flows, enabling consistent governance and end-to-end visibility across the enterprise.

Reliable Message Processing

Built-in support for Exactly Once (EO) and Exactly Once in Order (EOIO) delivery guarantees, with native retry mechanisms.

Sequencing & Control

Message sequencing, controlled processing, and error handling were managed at the platform level — out of the box, without explicit design effort.

Proven Enterprise Stability

Widely deployed across manufacturing, utilities, retail, and public sector landscapes with years of mission-critical uptime.

What's Changing Now

The business and technology landscape has shifted fundamentally. SAP PO was designed for an era of batch processing and system-centric connectivity — but today's enterprises demand far more.

Real-Time Business Expectations

Customers, partners, and internal stakeholders expect immediate data exchange. Batch windows are no longer acceptable for critical business processes. The tolerance for latency has dropped to near zero.

API-Driven Ecosystems

Modern applications communicate through APIs. Ecosystems like Salesforce, Microsoft, and SAP itself are API-first — requiring integration platforms to match that posture with full lifecycle management.

Cloud-Native Scalability

On-premise middleware cannot elastically scale to meet peak demand. Cloud-native platforms offer dynamic scaling without over-provisioning or infrastructure investment cycles.

Growing Connectivity Demands

Partner networks, acquired companies, and SaaS applications are expanding rapidly — demanding flexible, extensible integration architecture that can accommodate change without bespoke re-engineering.

What You Gain in BTP Integration Suite

Moving to SAP BTP Integration Suite is not simply a platform swap — it is an expansion of integration capability across every dimension of your enterprise architecture.

Full API Lifecycle

Design, secure, publish, monitor, and deprecate APIs through a unified API Management layer — enabling governed, consumer-centric integration.

Event-Driven Architecture

Native SAP Event Mesh support enables real-time, decoupled integration patterns that SAP PO could not natively accommodate.

Cloud-Native Scalability

Elastic, multi-tenant runtime eliminates infrastructure bottlenecks — scaling dynamically to meet peak business demand without over-provisioning.

Advanced Observability

Structured telemetry, operational dashboards, and proactive alerting replace the reactive, log-based monitoring of SAP PO environments.

This Is an Architectural Shift

The move from SAP PO to BTP Integration Suite is not a replacement — it is an evolution of how integration is conceived, built, and governed. Every dimension of your integration strategy is changing.

1

Integration Flows

Point-to-point interface development driven by project-by-project demand — each flow built independently to solve an immediate problem.

2

Business Capabilities

API-exposed business services designed for reuse across multiple consumers — enabling governed, scalable, and composable integration.

System-Centric → Consumer-Centric

Design from the consumer's perspective, not the system's constraints.

Batch-First → Real-Time Where Needed

Adopt event-driven and synchronous patterns strategically based on business requirements.

Project Builds → Reusable Assets

Canonical models and shared components reduce redundancy and accelerate delivery.

Platform-Driven → Architecture-Driven

This is perhaps the most important mental model shift for any team making this journey. In SAP PO, the runtime absorbed complexity so you didn't have to. In SAP BTP, that responsibility moves explicitly into your design.

In SAP PO — Platform Absorbed It

- EOIO guaranteed message ordering automatically
- Retry logic was a configuration parameter, not developer code
- Reprocessing was safe and predictable out of the box
- Platform-managed persistence and sequencing required no design effort

In SAP BTP — You Design It

- Ordering requires explicit queue or partition strategy
- Retry must be coded with idempotency awareness
- Reprocessing requires business-aware logic to prevent duplication
- Sequencing is an architectural decision, not a setting

⊗ Capabilities don't disappear — they move into your design responsibility. Teams that don't recognize this will ship brittle integrations that fail unpredictably in production.

"It Works" ≠ "It's Operable"

In SAP PO, a message that reached its destination was largely considered a success. BTP Integration Suite demands a higher standard — one where reliability, observability, and recoverability are first-class design concerns, not afterthoughts.

Design for Monitoring

Every integration flow must expose meaningful telemetry — message status, processing times, and error rates — surfaced through structured dashboards, not log archaeology.

Design for Error Handling

Errors are not exceptions — they are expected conditions. Define explicit dead-letter queues, alert routing, and escalation paths before go-live.

Design for Reprocessing

Failed messages must be recoverable without data loss or duplication. Idempotency keys and reprocessing triggers are architectural necessities, not afterthoughts.

Design for Observability

End-to-end tracing across systems, correlation IDs, and structured logging enable operations teams to diagnose and resolve issues rapidly in production.

Success in BTP Integration Suite = reliable + observable + operable integration by design.

Operating Model Shift — The Hidden Risk

The most commonly overlooked dimension of BTP migration is not technical — it is organizational. SAP BTP distributes ownership across multiple teams. Without an explicit RACI, you get the worst of both worlds: everyone is involved, but no one is accountable.

New Distributed Ownership Model

Integration Team

Owns iFlows, error handling, message routing, and reprocessing logic within Cloud Integration.

Security Team

Owns certificate lifecycle, OAuth client credentials, and credential stores. Expiry = outage.

Network/ Infrastructure

Owns Cloud Connector, secure tunnel, and on-premise connectivity agents.

Application/Business Teams

Owns data contracts, business validation rules, and downstream system SLAs.

The Risk Scenario

A business-critical finance integration fails at 11pm. The iFlow shows green. The API layer shows no errors. The backend system shows no faults.

The issue is an **expired certificate** managed by a team that was never told they owned it.

⊗ This is not a technical gap — it is an operating model gap. Define RACI before go-live, not after the first incident.

Storage, Retention & Compliance — Now Your Decision

In SAP PO, message persistence and retention were platform concerns. In SAP BTP, every decision about what to store, where to store it, and how long to keep it falls to your architecture — with direct implications for cost, compliance, and audit readiness.

SAP PO — Platform Handled It

- Message storage was automatic and centralized
- Retention policies were implicit in platform configuration
- Audit logs were available in a single location
- No architectural decision required

Simple — but inflexible and opaque for compliance teams.

SAP BTP — Architecture Decides

What to Store?

Full payload vs. metadata only. PII masking requirements. Message headers vs. business keys.

Where to Store?

BTP Object Store? External data lake? On-premise audit system? Hybrid logging strategy?

How Long to Retain?

GDPR 30-day limits? Financial audit 7-year requirements? Domain-specific regulatory mandates?

⚠ Data responsibility shifts to architecture. Define your retention strategy before you migrate a single production flow.

What Good Looks Like

Successful teams standardize before they scale. The difference between teams that struggle with BTP and teams that thrive is not technical skill — it is architectural discipline applied consistently from day one.

1

Define Integration Patterns Once — Enforce Everywhere

Don't reinvent retry logic per interface. Design once: idempotency keys, dead-letter queues, backoff strategies. Codify them as reusable packages that every flow inherits as standard.

2

Observability Is Designed, Not Added Later

Correlation IDs, structured logging, and alerting thresholds must be requirements in your iFlow template — not retrofitted after the first production incident.

3

Ownership Is Defined Before Go-Live

RACI for integration, security, network, and application layers must be agreed and documented before any wave goes to production. Ambiguity in ownership is the #1 cause of slow incident resolution.

4

APIs Are Products, Not Pipelines

Every API has a consumer, a version, a lifecycle, and a deprecation path. Treat integration as a managed product — with SLAs, documentation, and governed change management.

Failure Patterns Have Changed

One of the most underestimated risks in BTP migration is the shift in *how* integrations fail. In SAP PO, failures were predominantly logic-based and predictable. In SAP BTP, an entirely new class of infrastructure failures emerges that teams must anticipate and design for.

SAP PO — Failure Profile

- Mapping and transformation errors
- Configuration mistakes
- Data format mismatches
- Predictable, logic-driven, developer-debuggable failures

SAP BTP — New Failure Realities

Token Expiry

OAuth tokens expire mid-process, breaking flows silently without explicit error surfacing.

Certificate Expiration

Certificates expire without warning, halting all connected flows simultaneously.

Network Latency

Hybrid connectivity introduces variable latency and timeout failures absent in on-premise environments.

API Throttling

Rate limits on target APIs cause unpredictable backpressure and cascading failures.

Same integration logic — completely different failure realities. Your monitoring and alerting strategy must account for all of these new patterns.

Replay vs. Reprocess — The Hidden Risk

This is the technical reality that separates teams who truly understand SAP BTP from those who assume it works like SAP PO. When a finance interface fails with 500 unprocessed records, what happens next?

SAP PO — Safe Recovery

Click "Reprocess." The platform guarantees:

- Same message order preserved
- No duplicate deliveries
- Idempotency managed by runtime
- Predictable, auditable outcome

Recovery was a button. It was safe. It worked.

SAP BTP — Design Required

Without explicit design, replay carries serious risks:

- **Replay →** Risk of processing duplicate records
- **Reprocess →** Risk of data inconsistency across systems
- No built-in idempotency unless you design it explicitly
- No ordering guarantee unless queue partitions are configured

You must design: **idempotency keys**, **business-aware retry logic**, and **safe reprocessing patterns**.

Recovery is no longer a button — it is a design decision that must be made before a single production interface goes live.

It Works ≠ It's Operable

Deployment is not success. A green status on day one does not mean your integration is production-ready. In SAP PO, operational behavior was largely implicit. In SAP BTP, you must deliberately engineer operability as a first-class concern.

The Dangerous Assumption

Many teams declare victory when messages flow end-to-end. But "it works" answers only one question — and it's the wrong one for production operations.

What happens when it fails at 2am? Who gets alerted? How is it recovered? Can you prove what happened?

⚠ Green status ≠ production readiness. Operability must be explicitly designed.

You Must Design For:

Monitoring

Real-time dashboards with meaningful signal — not raw log files requiring manual interpretation.

Alerting

Proactive notification before business impact — not reactive discovery after a business user complains.

Reprocessing

Safe, idempotent recovery capability — with audit trail and without risk of data duplication.

Observability

End-to-end traceability across all layers — correlation IDs, structured logging, system-to-system visibility.

Integration Maturity Model

Migration should advance your organization's integration maturity — not simply relocate existing patterns onto a new platform. Understanding where you are helps clarify where you need to go.

1

Level 1 — Ad Hoc Integration

Point-to-point, file-based, developer-driven. No central governance. High duplication and no reuse.

2

Level 2 — Centralized Integration (SAP PO)

Middleware introduced. Platform-managed reliability, sequencing, and retries. Limited API exposure.

3

Level 3 — API-Led Integration (BTP IS)

API-first design. Reusable services. Architecture-driven behavior with structured governance and monitoring.

4

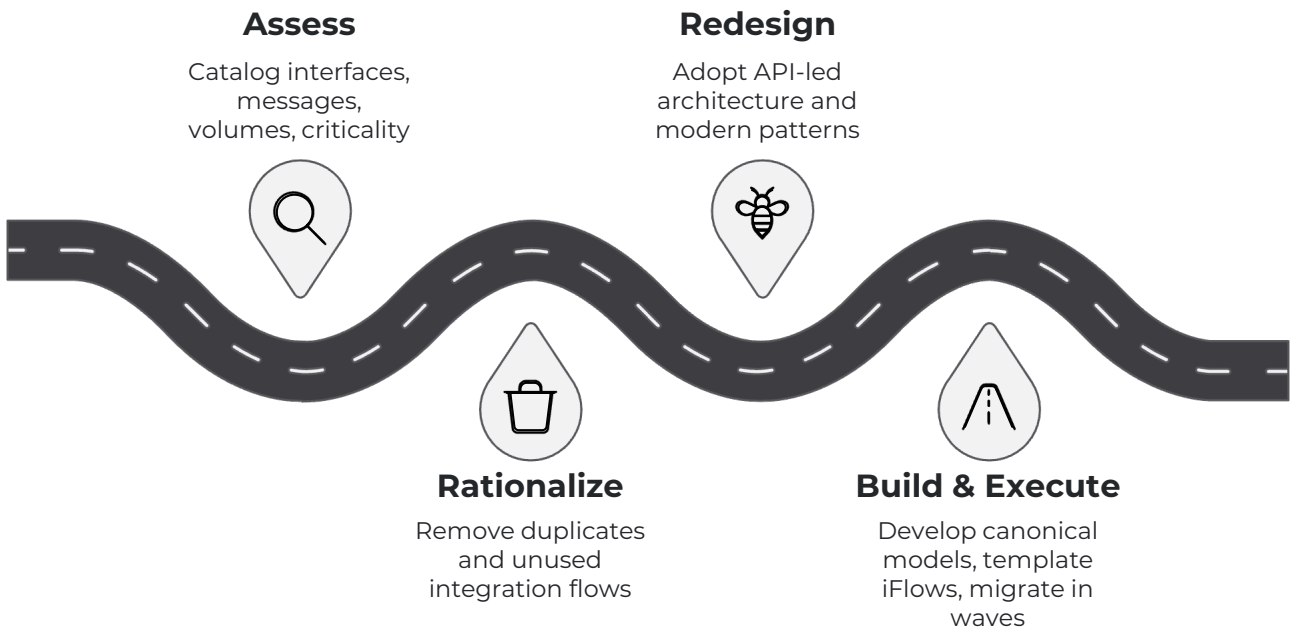
Level 4 — Intelligent Integration Enterprise

Event-driven, AI-augmented, business-aligned. High reuse, full observability, and autonomous recovery capabilities.

ⓘ Migration should move you forward in maturity — not just change your hosting location.

A Migration Approach That Works

Effective migration to BTP Integration Suite is not a bulk-export exercise. It requires deliberate sequencing — starting with architecture decisions before touching a single iFlow.



Teams that skip the first three phases and jump directly to migration consistently encounter the same outcomes: duplicated anti-patterns at scale, unresolved governance gaps, and production incidents that were entirely preventable.

Customer Example — Manufacturing

ANONYMIZED CASE STUDY | MANUFACTURING INDUSTRY

A large manufacturing enterprise operating **220+ interfaces** on SAP PO, spanning IDoc-based SAP-to-SAP flows, legacy file-based transfers, and SOAP web service integrations across multiple plant systems and business units.

Challenge

Duplicate integrations — multiple flows performing similar functions, built independently by different teams over the years

Slow partner onboarding — 6 to 8 weeks to connect a new trading partner or supplier

Limited visibility — no structured monitoring; issues identified reactively through business complaints rather than operational alerts

What Changed — Architectural Transformation

The migration program became an architectural transformation. Rather than rebuilding SAP PO flows in BTP, the team used migration as the forcing function to build integration properly for the first time.

API-First Architecture Introduced

All new integrations exposed as versioned APIs through SAP API Management, enabling structured consumer access and lifecycle control across business domains.

Canonical Data Models Built

Standardized business object schemas — order, shipment, invoice — eliminated bespoke mapping proliferation and enabled reuse across integration flows.

Reusable Integration Components Created

Shared iFlow templates for error handling, logging, and partner communication reduced development effort and enforced consistency at scale.

Structured Monitoring & Governance Implemented

Operational dashboards, alert routing, and integration health metrics provided proactive visibility across the entire integration landscape.

Business Impact — Measurable Results

The architectural investment delivered quantifiable improvements across every key integration metric — validating that the redesign approach consistently outperforms a straight lift-and-shift.

36%

Interface Reduction

Portfolio reduced from 220 to 140 interfaces through rationalization, decommissioning, and consolidation of duplicate flows.

45%

Integration Reuse Rate

Up from approximately 10% prior to migration — driven by canonical models and reusable component libraries applied consistently.

75%

Faster Partner Onboarding

Onboarding time reduced from 6–8 weeks to 1–2 weeks through standardized templates and API-based connectivity.

Better Observability

Proactive alerting replaced reactive triage — operations teams now resolve issues before business impact.

Reduced Maintenance

Fewer interfaces, higher consistency, less firefighting — freeing integration engineers for higher-value work.

Improved Scalability

Cloud-native elasticity supporting business growth without infrastructure investment cycles.

What to Focus On

Organizations that succeed in this transition share a common set of architectural priorities — established early and maintained consistently throughout the program.

1. **Define Your API Strategy Early**

   Determine which business capabilities will be API-exposed, who the consumers are, and how APIs will be versioned and governed — before building anything.

2. **Design for Operability, Not Just Flow**

   Every iFlow must include explicit error handling, alerting, and reprocessing logic. Operational readiness is a go-live criterion, not a post-migration task.

3. **Invest in Reusable Components**

   Canonical data models, shared iFlow templates, and standard adapter configurations compound in value as migration progresses — front-load this investment deliberately.

4. **Establish Governance from Day One**

   Define naming conventions, versioning policies, security standards, and change control processes before the first flow reaches production.

5. **Align Integration with Business Capabilities**

   Map integrations to business domains — not systems. This alignment enables ownership, prioritization, and value measurement that resonates with executive stakeholders.

Key Takeaways

1

SAP PO Laid a Strong Foundation

The platform delivered years of reliable, centralized integration. That foundation is not being discarded — it is being built upon. Recognize the maturity it enabled before planning what comes next.

2

BTP Integration Suite Enables the Next Evolution

API management, event-driven architecture, cloud-native scalability, and structured observability are not just technical upgrades — they are strategic enablers for modern digital business models.

3

The Shift Is Architectural, Not Just Technical

New tools do not automatically produce better outcomes. The shift requires new design disciplines, governance practices, and operational standards — adopted deliberately and consistently from day one.

Customers who succeed don't just move integrations — they elevate how integration delivers business value across the enterprise.

A Closing Perspective

"In SAP PO, integration behavior was largely defined by the platform. In SAP BTP Integration Suite, integration behavior is defined by your architecture."

This is the most important mindset shift in the entire transition. The platform gives you the tools — the capabilities, the adapters, the runtime. But the reliability, the observability, the — these are now yours to design. That is not a burden. It is an opportunity to build integration that is intentional, dureusabilityrable, and aligned with how your business actually operates.

The organizations that embrace this responsibility — that treat integration as architecture rather than plumbing — are the ones that will scale faster, onboard partners more efficiently, and respond to change with confidence. The platform enables it. The architecture delivers it.

Start with a Free Integration Assessment

NEXT STEPS

Incture offers a complimentary Integration Landscape Assessment for enterprise teams evaluating or actively planning their SAP PO to BTP Integration Suite migration. This is not a sales call — it is a structured architectural conversation with our integration specialists.

Discovery Workshop

A 2-hour session with your integration leads to understand your current landscape, business priorities, and migration constraints.

Interface Portfolio Analysis

We analyze your SAP PO interface catalog — identifying complexity tiers, rationalization candidates, and quick wins for your first migration wave.

Migration Roadmap Delivery

You receive a prioritized migration roadmap with wave sequencing, architecture recommendations, and effort estimates — at no cost.

Ready to begin? Connect with the Incture integration practice to schedule your complimentary assessment.

Incture IntSwitch — Accelerating Your Migration

IntSwitch is Incture's purpose-built migration accelerator for SAP PO to BTP Integration Suite transitions. It automates the discovery, assessment, and rationalization phases that typically consume 40–60% of program time when done manually.

Automated Interface Discovery

Scans your SAP PO landscape and generates a complete interface catalog — message types, volumes, dependencies, and business domains — in days, not weeks.

Complexity Scoring

Each interface is scored for migration complexity and business criticality — enabling data-driven wave sequencing and resource planning.

Pattern Rationalization

Identifies duplicate integrations, redundant flows, and decommission candidates — reducing your migration portfolio before the first wave begins.

Accelerated iFlow Generation

Generates BTP-ready iFlow templates from existing SAP PO configurations — reducing manual rebuild effort and enforcing architectural standards at scale.

Questions & Discussion

Architecture & Design

How do we structure the API layers for our specific landscape? Where do we start with canonical models? How do we handle IDoc-heavy interfaces in a cloud-native runtime?

Migration Planning

How do we sequence our 200+ interfaces? What criteria determine wave prioritization? How do we handle business-critical interfaces with zero-downtime requirements?

Governance & Operations

How do we establish naming standards, versioning policies, and monitoring frameworks before Day 1? How do we define the RACI across integration, security, and infrastructure teams?

Thank you for your time and engagement. Let's build integration that delivers lasting business value.

Write to us at:

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