



Navigating SAP S/4HANA Migration: A Strategic Blueprint for Risk-Resilient Transformation

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Executive Summary

SAP S/4HANA migration is more than a technical upgrade—it's a strategic inflection point. As SAP ECC approaches end-of-life, organizations must transition to S/4HANA to remain supported, compliant, and competitive. Yet many underestimate the complexity of this shift: legacy customizations, outdated role designs, and fragmented data landscapes pose serious risks.

This paper outlines TangoTec's proven framework for **risk-resilient S/4HANA migration**, blending deep SAP Security expertise, role redesign intelligence, and compliance-first architecture to ensure smooth, scalable transformation.

Why S/4HANA Migration Matters

- **SAP ECC support ends in 2027** (extended to 2030+ for select clients)
 - S/4HANA offers **real-time analytics, simplified data models, and cloud-readiness**
 - Migration impacts **every layer** of the SAP stack: roles, authorizations, interfaces, and business processes
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Common Migration Pitfalls

Challenge	Impact
Legacy role designs	Breaks in authorization logic, compliance gaps
Excessive custom objects	Increased testing, rework, and license exposure
Poor license mapping	Unexpected cost escalation under FUE model
Incomplete data cleansing	Migration errors, audit risks
Siloed project ownership	Misaligned timelines and business disruption

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TangoTec's Cortex Migration Framework

TangoTec's Cortex delivers a **phased, compliance-driven migration strategy** tailored to each client's landscape:

1. Pre-Migration Assessment

- Role and authorization object audit
- License exposure mapping (FUE impact)
- Custom object inventory and risk scoring

2. Role Redesign & Optimization

- Eliminate obsolete or over-provisioned roles
- Align roles to S/4HANA task sets and license tiers
- Embed license cost visibility into role approval workflows

3. Zero-Disruption Role Validation

Unlike traditional consultancies that require users to test new roles in a sandbox or quality system—often disrupting daily operations, **TangoTec's Cortex uses live tracing mechanisms** that allow users to continue their normal work while new roles are simulated and validated in parallel.

This approach ensures:

- **No downtime or duplicated effort**
- Real-world usage is captured for accurate authorization mapping
- Approvers and auditors gain visibility into **license impact before deployment**

Key Benefit: TangoTec's Cortex ensures that role redesign is not just technically sound—but operationally invisible. Users stay productive. Compliance stays intact. And license costs stay controlled.

4. Security Blueprinting

- Define S/4HANA security architecture
- Map legacy roles to new authorization concepts
- Ensure SoD compliance and audit readiness



5. Data & Interface Cleansing

- Identify redundant data and unused interfaces
- Prepare clean migration packages
- Reduce downtime and post-migration errors

6. Cutover & Post-Go-Live Support

- Validate role assignments and license tiers
- Monitor access patterns and adjust provisioning
- Provide ongoing compliance and audit support

TangoTec's Cortex Differentiators

- **License-Aware Role Design:** Prevents FUE cost spikes before they happen
- **Zero-Disruption Validation:** Users continue working while roles are traced and tested
- **Legal-Grade Documentation:** Supports audit, HR, and compliance teams
- **Cross-Industry Expertise:** Proven delivery across energy, automotive, pharma, and manufacturing
- **Scalable Frameworks:** Built for global rollout, phased adoption, and fallback resilience

Business Impact

Metric	Before TangoTec's Cortex	After TangoTec's Cortex
Role Redesign Completion	Fragmented	Unified, license-optimized
FUE License Exposure	Untracked	Mapped and minimized
Migration Timeline Risk	High	Controlled and phased
Audit Readiness	Reactive	Proactive and documented
Stakeholder Confidence	Low	High, with informed approvals

Get Started

To explore how TangoTec's Cortex can support your SAP S/4HANA migration with security-first, license-aware strategies and zero-disruption validation, contact us by emailing info@tangotec.co.uk