



OneFailover Application for SAP Integration Suite

An Enterprise Solution for SAP Integration Resilience and Failover



Resiliency Operations for SAP Integration Suite

Why this matters

What enterprises face

- **Planned platform activities** (maintenance windows, upgrades) and **unplanned incidents** can require regional rerouting.
- Global programs need **repeatable DR drills**, auditability, and deterministic cutover steps.
- Integration landscapes include **mixed runtimes** (Cloud Integration + Edge Integration Cell) and multiple business domains, requiring **controlled orchestration**.

The solution

OneFailover provides an operational layer to standardize resiliency

- **Readiness:** continuously keeps a failover tenant/runtimes in a “ready state”
- **Controlled orchestration:** group/sub-group sequencing for what moves together
- **Audit & governance:** traceability of actions, role-based control, repeatable playbooks
- **Cutover support:** integrates with enterprise routing patterns (e.g., DNS/Traffic Manager) for inbound traffic switching

When to use OneFailover

Planned maintenance: reduce coordination effort

Regional resiliency: maintain a failover posture for critical interfaces

Peak events: keep failover prepared for traffic surges and incident response

Compliance / audit requirements: evidence of DR readiness, controlled actions, and traceable execution

Business value

- **Lower** operational risk
- **Faster**, repeatable failover
- **Improved** governance
- **Higher** confidence

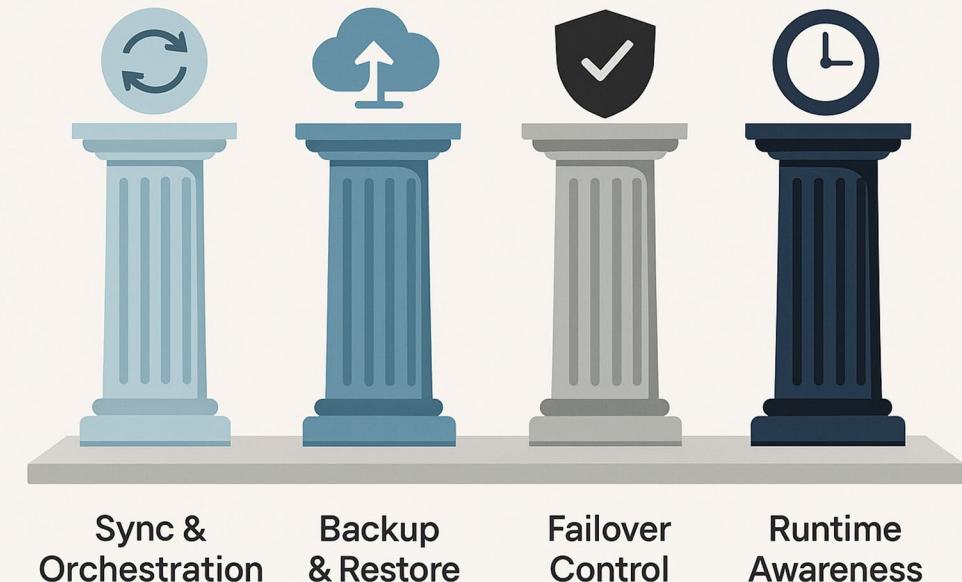
— Key Features and Benefits of UFM

UFM is a robust and intelligent solution designed to safeguard your SAP Cloud Integration environments from disruptions caused by regional failures, maintenance windows, and unexpected errors.

By automating failover processes, synchronizing critical artifacts, and implementing robust security measures, UFM ensures business continuity and minimizes downtime.

Core Feature Pillars

- **Sync & Orchestration:** Full-scope sync for iFlow/MM/VM/Scripts; dependency-aware ordering; group/sub-group priorities; single/both-side deploy.
- **Backup & Restore:** GitHub-based, artifact-level versioning; selective restore with overwrite guardrails; export/import of failover configs.
- **Failover Control:** Group-based methodology; deployment prioritization; manual listener cutover; OneFailover Profiles for primary → failover mappings & Git targets; admin lock to prevent collisions.
- **Runtime Awareness:** Edge Cell + multi-runtime/tenant awareness; persistence layer to inventory iFlows and tenant metadata.
- **Observability:** Operational Status & Monitoring dashboards; Readiness scores; activity/execution logs; operational & system logs; throughput optimizations.
- **Security Artifacts:** User Credentials, Global Variables, Number Ranges, and Access Policies included in sync/backup.
- **Security & Compliance:** Strong guardrails; secret-safe metadata (hashes/refs only).



Key Features and Benefits of UFM

- Advance Dashboard:** Easily manage and monitor your failover configurations and sync processes.

Failover Readiness Score

- Consolidated view of Sync and Backup health indicating readiness to safely trigger failover.

Sync Coverage

- Visibility into synchronization status of Packages, Credentials, OAuth, Keystore, Global Variables, and Number Ranges between Primary and Failover tenants.

Backup Assurance

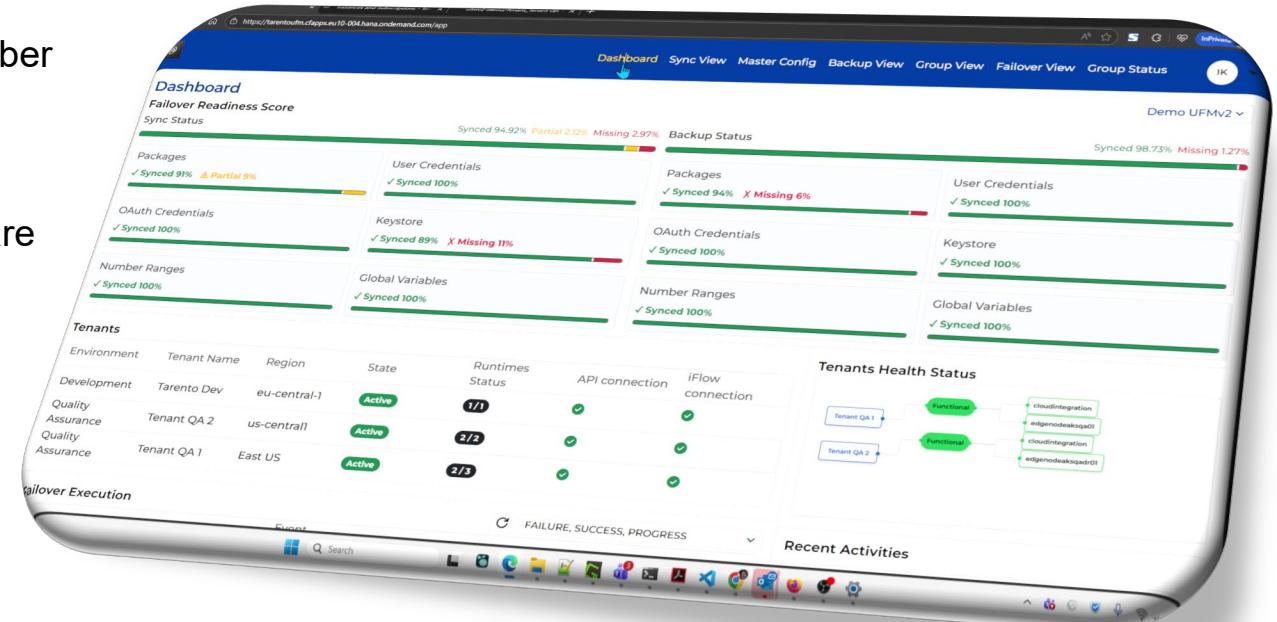
- Confirms whether critical artifacts and security materials are securely backed up to Git for disaster recovery.

Tenant & Runtime Health

- Environment-wise tenant status with region, runtime availability, API connectivity, and iFlow reachability.

Topology View

- Visual health map showing Primary–Failover tenant relationships and runtime reachability for quick risk identification.



Key Features and Benefits of UFM

- A real-time, execution-level view of **failover state**, **artifact deployment status**, and **version parity** between Primary and Failover SAP Integration Suite tenants.

Primary vs Failover Context

- Clear visibility of active Primary and Failover tenants with associated runtimes and current operational state (Normal / Failover).

Group & Subgroup Awareness

- Artifacts organized by logical subgroups with defined priority, ensuring controlled and deterministic failover sequencing.

Artifact-Level Deployment Status

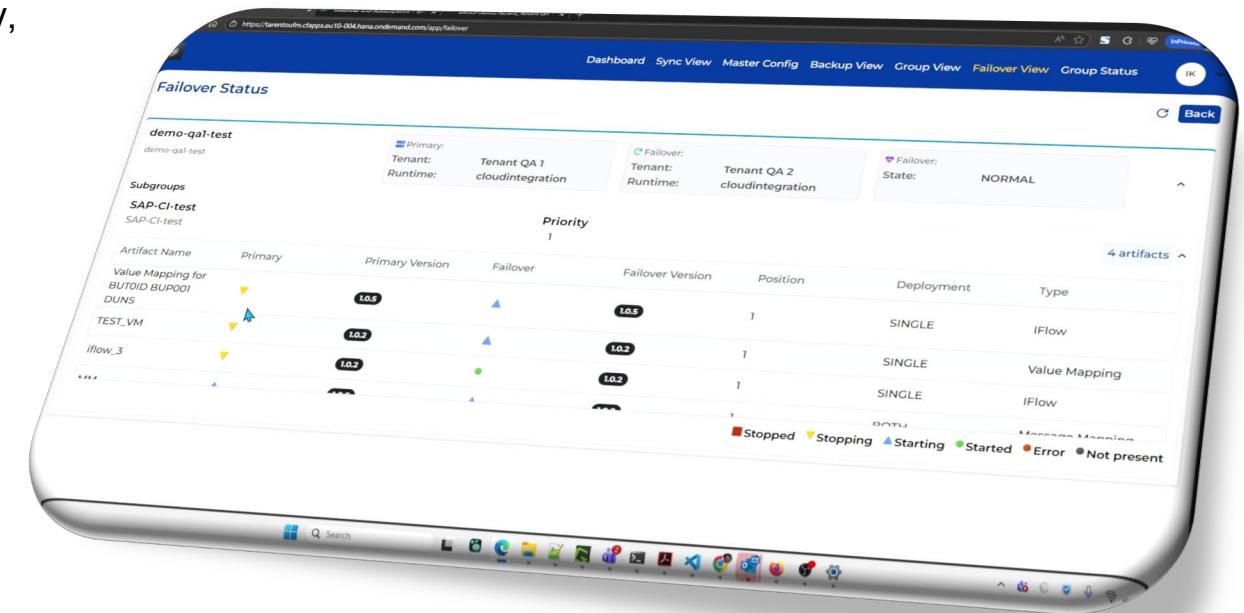
- Live status of each artifact (Started, Stopping, Starting, Stopped, Error, Not Present) across both tenants.

Version Consistency Validation

- Side-by-side comparison of artifact versions on Primary and Failover to ensure deployment correctness.

Deployment Strategy Enforcement

- Explicit indication of deployment mode (Single / Both) per artifact, driving correct behavior during failover and fallback.



— Key Features and Benefits of UFM

- **Automated Artifact Synchronization:** Keep your integration flows, configurations, and other artifacts consistent across multiple tenants.

Design-time Artefacts

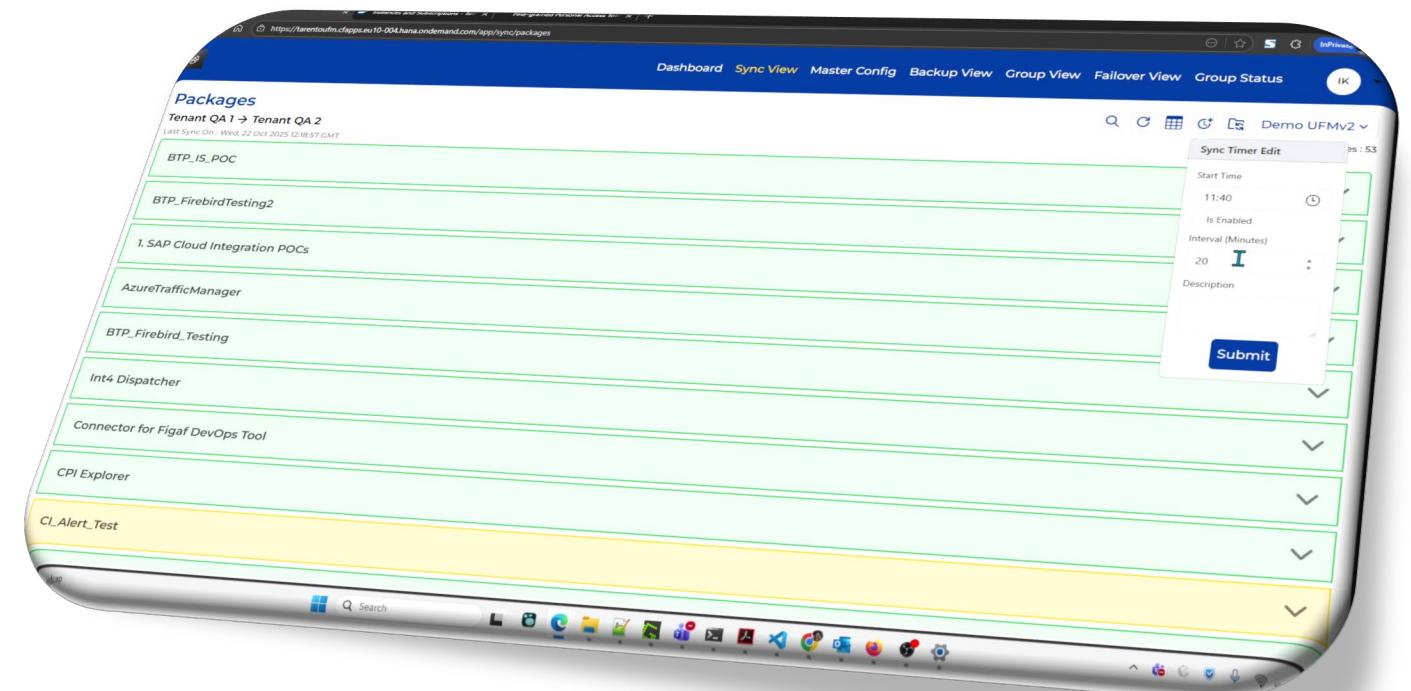
- Package , Integration Flow, Message Mapping, Script Collection, Imported Archives, Schema, message Type, service interface, integration Adapter, Integration Flow Configuration, Value Mapping

Runtime Artefacts

- Security artifacts, Credentials, Number Range Object, JDBC, Access policies

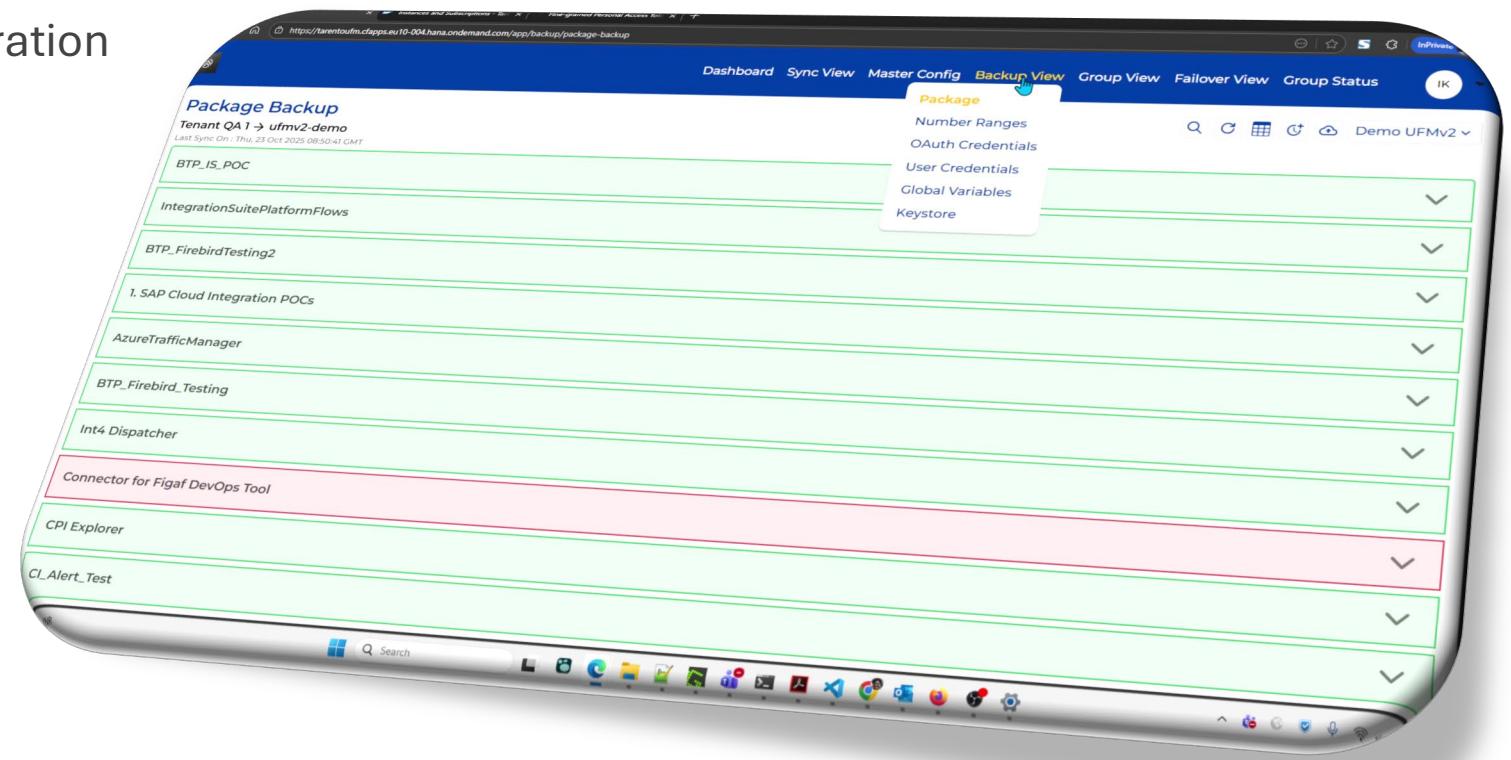
Auto Sync

- Both design-time & runtime supports Auto Sync.



— Key Features and Benefits of UFM

- **Robust Backup and Recovery:** Protect your critical integration assets with advanced backup and restore capabilities.
- **Enhanced Security and Compliance:** Securely store and manage your integration artifacts with Git-based backup.



Strategic Comparison

An in-depth analysis of resilience, automation, and operational efficiency for mission-critical SAP Integration Suite landscapes.

Aspect	SAP Native HA/DR (Standard)	Tarento Unified Failover Management (UFM)	UFM Value Add
High Availability (HA)	Provided by default using multi-availability zone redundancy within the same region.	Leverages existing HA but can augment it across regions.	Complements SAP HA setup with cross-region resilience strategy.
Disaster Recovery (DR)	Must be manually implemented using multiple regional tenants and Load Balancer.	Automated DR with DNS-based failover (e.g., Azure Traffic Manager, AWS Route 53).	Reduces manual intervention and risk with automated failover.
iFlow/API Replication	Needs to be manually synchronized across tenants.	Automated artifact sync using Git or APIs.	Ensures cross-region consistency without human error.
Integration Artifact Backup	Requires manual backup of artifacts and configurations.	Git-based versioning and backup of iFlows and configurations.	Provides audit trail, rollback, and corruption recovery.
Failover Routing	Via external Load Balancer, no SLA from SAP.	DNS-based routing with monitored health checks.	Low latency, better SLA via hyperscaler-native tools.
State/Data Consistency Risk	DR not managed by SAP – risk of duplication/loss of in-flight messages.	Can track in-flight messages, support idempotency/resilience logic.	Reduces risk of duplicate or lost data in async scenarios.
Operational Complexity	High – orchestration of deployments, backups, failover is manual.	Low – centralized UFM control of all key operations.	Cuts DevOps effort with automated orchestration.
Compliance & Audit Readiness	Custom setup for audit/backup/version control.	Git-based audit trail, rollback, logs.	Ideal for regulated industries (e.g., pharma, finance).
Scalability	Requires manual setup for each new region/tenant.	Scales horizontally via onboarding to automation pipeline.	Speeds expansion to multi-region environments.

— Strategic Comparison, continued...

An in-depth analysis of resilience, automation, and operational efficiency for mission-critical SAP Integration Suite landscapes.

Aspect	SAP Native HA/DR (Standard)	Tarento Unified Failover Management (UFM)	UFM Value Add
Governance & Monitoring	SAP tools don't support multi-region visibility well.	UFM provides central dashboard (status, Git commits, DR states).	Better observability & control globally.
SLA Dependence	SLA is limited to SAP platform (99.95%) – rest depends on manual DR + external Load Balancer.	SLA includes UFM-managed components + Hyperscaler SLA.	Extends SLA coverage to DR pipeline.
Business Continuity Assurance	Prone to human error and downtime during outages or maintenance.	Designed for automation with optimized RTO & RPO.	Improves BCP compliance, reduces production risk.
Customization & Extensibility	Limited to SAP features and APIs.	Fully extensible via APIs, plugins, custom health checks.	Enables custom failover logic per business unit or flow.
Observability & DevOps Tooling	Basic logs & traces.	Supports integration with Grafana/Kibana, SAP WorkZone, custom UI.	End-to-end visibility, alerting, and self-service UI.
Cross-cloud Readiness	Not supported – SAP native only.	Supports multi-cloud (Azure ↔ BTP, AWS, etc.).	Enables hybrid failover strategies, not locked into one vendor.

— Roadmap at a glance

- **Timeline: Q4 2025 → Q4 2026**
 - **Q4 2025:** API Management, Harden Security Materials, JDBC, User roles; RBAC, dashboards & log insights.
 - **Q1 2026:** API Management, Subaccount admin coverage expands — Destinations, Service Instances & Certificates, Cloud Connector integrations, centralized Key vault.
 - **Q2 2026:** B2B & Mapping assets — Trading Partner Management (initial set), custom IDocs/Messages, codelists & schema catalogs.
 - **Q3-Q4 2026:** Operational excellence — Trading Partner Management (final set), CI/CD, proactive alerting
- **Key Enablers & Assumptions**
 - Secure Parameters, OAuth2 SAML Bearer / Auth Code, Data Store, Migration & Cloud Connector APIs available.
 - Access readiness: role collections (apiaccess) and Cloud Connector credentials in place.
 - In-flight message continuity via external broker pattern (Solace/SAP Advance Event Mesh/Azure Event Hubs/Service Bus).
- **Success Measures**
 - Seamless failover in ≤ 5 minutes; target 99.9%+ availability.
 - Intuitive UI with live health, history, and complete auditability.
- **Next Steps**
 - Align on target tenants/runtimes and environments.
 - Confirm access and connectivity prerequisites.
 - Schedule enablement workshops; finalize rollout plan.



Thank you!

For further information, contact us at
transform@tarento.com

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