

Control-M for SAP: Enabling Resilient Operations Across ECC, S/4HANA and BTP

PRODUCT REPORT

Control-M for SAP helps customers orchestrate critical processes, like Financial Close, BW data flows, and Payroll, across **legacy systems (ECC)**, **next-generation platforms (S/4HANA on RISE)**, and **SAP BTP**. It reduces migration risk by supporting parallel run validation, SLA tracking, and universal orchestration across hybrid, multi-cloud, and on-prem environments.

BUSINESS CHALLENGES FOR SAP CUSTOMERS MODERNIZING THEIR PLATFORMS

- ✓ **HIGH RISK S/4HANA MIGRATIONS**
Coordinating cutover between ECC, BW, and S/4HANA without universal orchestration introduces unneeded risk. Teams struggle to run parallel environments, simulate workloads, or validate business outcomes before go-live.
- ✓ **BTP INNOVATION WITHOUT ORCHESTRATION**
As SAP customers **adopt SAP BTP for innovation** and **clean core architectures**, they face difficulty orchestrating workflows that span custom **BTP apps**, **ERP processes**, and **third-party systems**, slowing delivery and fragmenting control.
- ✓ **PHASE 2 PITFALLS & MISSED ROI**
Without Control-M from the start, customers often defer automation and SLA monitoring to **costly Phase 2 efforts**, leading to **prolonged stabilization**, **manual workarounds**, and **delayed business value realization**.
- ✓ **END-TO-END VISIBILITY GAPS**
Lack of **holistic insight across SAP and non-SAP systems** (ECC, SRM, CRM, file systems, APIs, mainframe) makes it difficult to monitor job status, enforce dependencies, and track completion, especially in **mission-critical processes** like O2C, P2P, and R2R.
- ✓ **SILOED MONITORING ACROSS HYBRID LANDSCAPES**
Limited native integration with cloud or legacy environments. Under RISE with SAP, workloads span **on-prem**, **private cloud**, and **Hyperscalers**, creating orchestration blind spots and **operational risk**.
- ✓ **HIDDEN SYSTEM FAILURES**
Jobs that hang, rather than fail, often go **unnoticed**. These yellow-state delays **degrade system performance**, **consume memory/CPU**, and cause **SLA violations without visible root causes**.
- ✓ **DATA INTEGRATION CHALLENGES**
SAP BW relies on real-time data from **mixed SAP/non-SAP sources**. Without **unified data orchestration, monitoring and alerting**, late or failed data pipelines compromise analytics and reporting.



SAP Certified
Integration with RISE with SAP S/4HANA Cloud

HEADQUARTERS
Houston, Texas

LOCATION
49 Countries

CERTIFICATION
SAP Certified
Integration with RISE with SAP S/4HANA Cloud

CUSTOMER REACH
86% Forbes
Global 50

CONTROL-M & SAP VALUE



MAPS CROSS-SYSTEM DEPENDENCIES

Connects SAP ECC, S/4HANA, BW, CRM, SRM, BTP apps, mainframe, file systems, APIs, and cloud tools into a universal orchestration flow.



ENABLES PARALLEL ECC/S/4HANA EXECUTION FOR VALIDATION

Supports phased cutovers with dual-environment scheduling and comparison of business outcomes before go-live.



SIMULATES & FORECASTS WORKLOADS WITH PREDICTIVE SLAs

Models job behaviour and SLA impact during migration and production phases, improving planning and proactive remediation.



CENTRALIZED EXECUTION, MONITORING & ALERTING, ACROSS BTP & CORE ERP

One control layer to monitor ERP, BTP extensions, cloud-native services, and ECS-hosted apps, enabling SLA governance and rapid response.



ORCHESTRATES HYBRID ENVIRONMENTS, ON-PREM, RISE, AND MULTI-CLOUD

Bridges SAP-managed (ECS), Hyperscalers (AWS, Azure), and legacy systems to ensure business processes run predictably, regardless of platform.

As SAP customers transition to S/4HANA through the RISE with SAP, these migrations demand **operational continuity, data reliability**, and the ability to execute **business processes predictably and without disruption**. In this environment, BMC Control-M stands out as a critical enabler of success for these migrations and business continuity.

BMC provides enterprise-grade orchestration to the **core of the migration process**. It ensures that data pipelines and batch jobs are automated and governed by strict, **predictive SLAs**. This is vital during the cutover and stabilization phases, where the risk of disruption is highest. By having Control-M orchestrating critical workloads for the on-premise (ECC) environment as well as S/4HANA, SAP customers can trust that essential business functions, such as financial closes, order fulfilment, and supply chain operations, continue to run smoothly and on time whilst these changes are taking place.

A leading automotive manufacturer provides a strong example of Control-M's impact. Their operations teams, tasked with maintaining continuous vehicle assembly line operations, encountered a significant challenge: failures in the production critical path were not visible downstream, causing unexpected disruptions. Each incident led to at least one hour of downtime, with substantial financial consequences. The company also successfully migrated to S/4HANA on Rise with zero production downtime, thanks to the ability to seamlessly redirect workloads to the new SAP platform by making a minor configuration change in Control-M.

For SAP, customers using Control-M to migrate to S/4HANA and the RISE ecosystem gain an advantage. It boosts confidence by **reducing the risk and complexity of migration through predictive SLAs, cross-business and infrastructure orchestration, and support for parallel workflows running across SAP ECC (onprem) and S/4HANA environments**, ultimately accelerating time-to-value with smoother transitions, reducing phase 2 scenarios whereby fixing issues and deploying orchestration as well as orchestrating new BTP based applications with the S/4HANA and RISE.

Control-M offers an SLA-driven orchestration platform that supports hybrid and multi-cloud environments. By providing centralized visibility and control across complex landscapes, it ensures that SAP customers can **monitor, manage, and optimize** workflows in real time, especially after migration is complete. This operational stability is essential for realizing the full value of S/4HANA and delivering on the promise of intelligent enterprise transformation. Orchestration from the start to avoid costly project delays as well as orchestration and integration of BTP workloads to S/4HANA and Rise to keep the core clean.

It's not just about automating workflows, it's about giving SAP customers the ability to move to S/4HANA **without risking business continuity**, operate more reliably after go-live, accelerate innovation via BTP and ensure operational resilience.



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Platforms

DELIVERING OPERATIONAL EXCELLENCE: BMC CONTROL-M'S IMPACT ON SAP WORKFLOWS

SMARTER S/4HANA RISE MIGRATIONS AND REDUCED MIGRATION RISK

Control-M enables parallel runs of ECC/OnPrem and S/4HANA/RISE, supporting a **phased cutover**, and **validates business outcomes through simulation, forecasting, and dual-environment comparison**. This is essential during phased migrations when ECC is still handling production, S/4HANA is being validated or slowly brought online.

WHERE CONTROL-M FITS IN SAP S/4HANA MIGRATIONS (AND WHY IT MATTERS)

- These migrations, whether RISE, brownfield, or greenfield are complex, multi-phase projects. What often causes delays or budget overruns is the lack of a universal orchestration layer. Without automation in place **from the start**, many companies end up needing a "Phase 2" project just to stabilize operations, add job orchestration, or fix reporting gaps.

CONTROL-M PREVENTS THIS – We bring in automation and SLA-based orchestration before and during the migration, not after. Control-M enables workloads to operate across both environments, legacy and S/4HANA, supporting a phased migration. This approach allows you to test outcomes, ensure alignment between SAP and non-SAP systems, and maintain full visibility from day one, well before any cutover.

WHERE IS THE ROI?

You avoid costly follow-up projects, reduce stabilization time, and keep your project on track. Simply put, you shift automation left, prevent Phase 2 headaches, and get your value from SAP S/4HANA sooner, with less risk.

SAP BTP (Business Technology Platform)

END-TO-END ORCHESTRATION FOR SAP BTP-DRIVEN INNOVATION

This talks directly to future innovation integration and business applications. SAP strongly promotes clean core architectures, moving custom logic and extensions **out of the ERP core** and into **SAP BTP**. SAP BTP is a powerful platform for accelerating innovation whilst keeping the S/4HANA core clean and maintainable. But for that innovation to translate into business value, customers need orchestration that **extends across both BTP and ERP**, and that's exactly where we come in.

Control-M orchestrate SAP BTP jobs alongside core SAP processes like finance, supply chain, and HR. So, whether you're running custom apps on BTP, integrating third-party tools through APIs, or working across cloud-native services and data lakes, Control-M brings everything under **one control layer**.

REDUCED MANUAL EFFORT

Automated orchestration of data migration, batch jobs, and cutover activities **reduces labor costs** and eliminates repetitive manual tasks.

COST-SAVING IMPACT

By automating and orchestrating migration workflows, Control-M reduces **project delays, labor hours, and error correction costs**, keeping S/4HANA migrations **on time and within budget** while improving overall operational resilience.

ESTIMATED ROI IMPACT

30%+

Labor Savings

70%+

Reduced Errors post migration

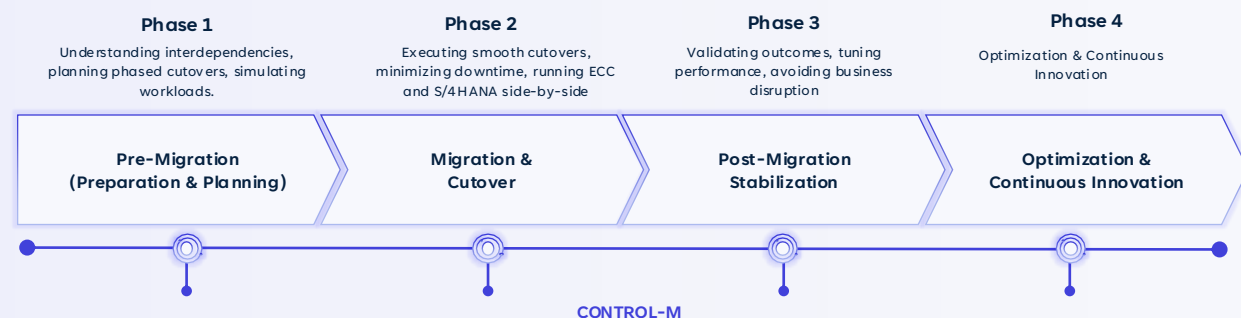
FASTER GO-LIVE & STABILITY

Reduced downtime and smoother cutover accelerate ROI by enabling **business operations on S/4HANA sooner**, maximizing productivity and reducing lost revenue.



MIGRATION RISK MITIGATION & APPROACH WITH CONTROL-M

Eliminate or drastically reduce the scope and cost of follow-on “automation enhancement” projects.



- Maps cross-system dependencies across ECC, BW, CRM, SRM, and non-SAP systems
- Identifies timing/sequencing issues in existing processes
- Forecasts job schedules to uncover SLA risks in S/4HANA scenarios
- Establishes test environments to simulate migration workflows
- Enables parallel execution of ECC and S/4HANA jobs
- Supports phased migrations by orchestrating split workloads
- Provides centralized execution, monitoring, and alerting for both environments
- Automates cutover tasks like data sync, batch cutoffs, and outcome validation
- Monitors job health and system resources (CPU, memory, job hangs)
- Detects discrepancies in execution timing, output, and SLAs
- Provides real-time alerts to prevent process failures or delays
- Orchestrates SAP BTP extensions, APIs, and cloud-native workflows
- Unifies legacy SAP (ECC, SRM) and modern platforms (S/4HANA, BTP, S3, Azure)
- Enables DevOps & CI/CD across SAP and non-SAP workloads
- Enhances SLA tracking and improves operational agility at scale

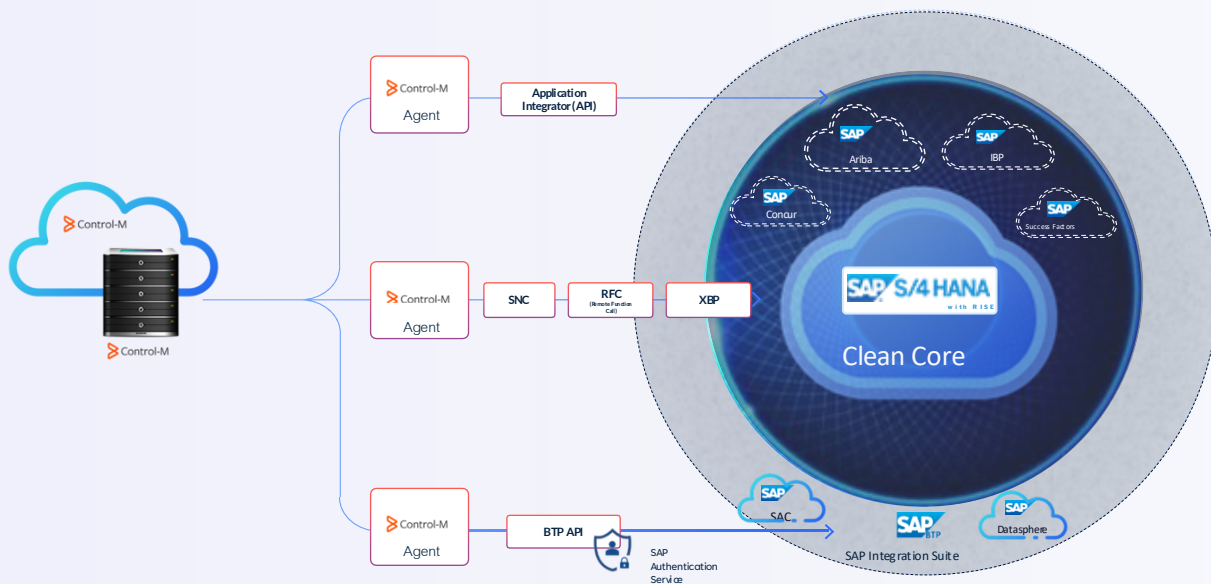
ORCHESTRATING CRITICAL PROCESSES IN SAP



REFERENCE USE CASES WITH CONTROL-M AND SAP

01 SAP HOUSEKEEPING Challenge: SAP housekeeping jobs (workflow, spool cleanup, IDoc reprocessing, CCMS, security, archiving) often fail or run late, slowing system performance and creating risks. Control-M: Orchestrates and monitors all SAP housekeeping jobs, ensures timely execution, and alerts owners for quick resolution.	02 Financial Close (R2R) Challenge: Month-end close jobs across FI/CO, BW, and reporting often overrun or fail, delaying consolidation. Control-M: Manages dependencies and enforces SLAs, ensuring timely and auditable closes.	03 Order-to-Cash (L2C) Challenge: Orders fail between CRM, SD, and external EDI, delaying shipments and revenue recognition. Control-M: Provides end-to-end monitoring and recovery across SAP and non-SAP, ensuring orders flow without disruption.	04 Source-to-Pay (S2P) Challenge: Procurement and AP processes are fragmented across MM, SRM, and external supplier networks. Control-M: Automates vendor, invoice, and payment jobs in sequence, improving supplier collaboration and compliance.
05 Payroll & Time Mgmt (H2R) Challenge: Payroll cycles depend on time evaluation and finance postings; errors cause payment delays. Control-M: Automates payroll batch jobs, validates dependencies, and ensures accurate, on-time payroll runs.	06 Forecast-to-Replenish (F2R) Challenge: Demand planning (IBP/APO) and warehouse execution (EWM, TM) are misaligned, causing stockouts. Control-M: Coordinates supply planning jobs across SAP and logistics partners to ensure inventory availability.	07 Analytics & Reporting (R2I) Challenge: BW loads, HANA queries, and BI dashboards fail overnight, leaving finance and ops teams without insights. Control-M: Automates BW process chains, manages HANA DB loads, and ensures data readiness for analytics every morning.	08 Production Planning (D2O) Challenge: MRP runs and production schedules stall without proper sequencing with MES/warehouse systems. Control-M: Orchestrates MRP → MES → EWM/TM workflows, ensuring uninterrupted production lines.

CONNECTING TO SAP S/4HANA AND BTP



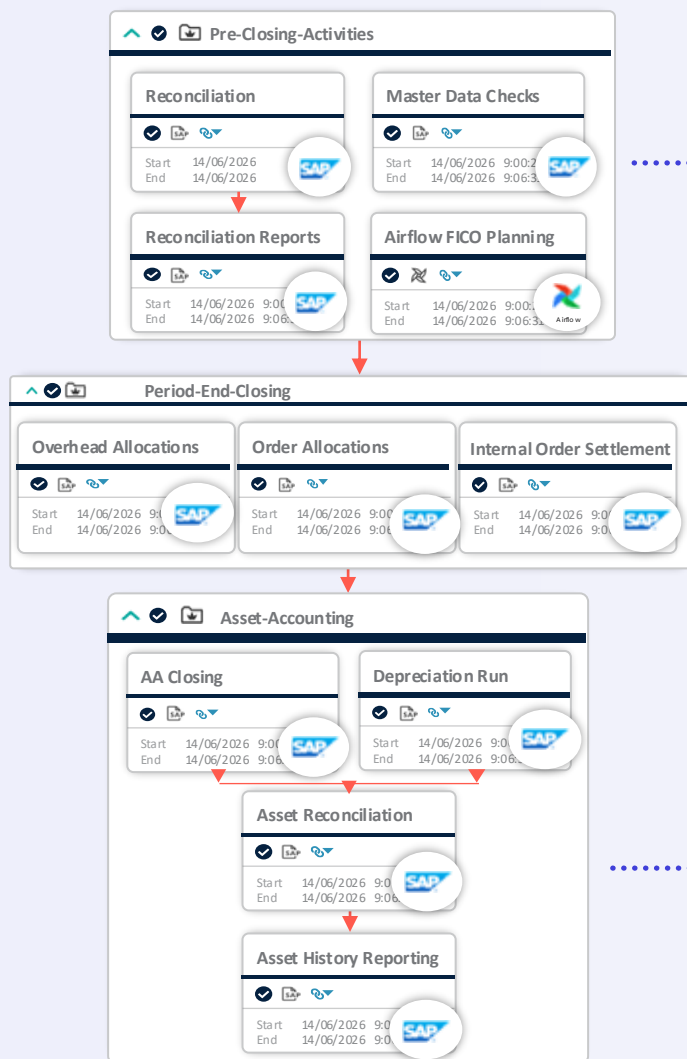
✓ **XBP (External Batch Processing interface)** is the official SAP-certified API used by Control-M to manage and monitor SAP jobs.

✓ **SNC** is SAP's security layer that provides encryption and authentication for external connections.

✓ **SAP's RFC (Remote Function Call)** is protocol used for external orchestration systems to communicate with SAP's background processing functions.

FINANCIAL CLOSE WORKFLOW

Simplified representation of SAP workflows, the workflow may contain more and/or different jobs in a production.



PRE-CLOSING ACTIVITIES

- Execute jobs in sequence with full dependency management.
- Monitor parent-child relationships across FI, MM, CO, and Asset Accounting.
- Automate manual checks and log reviews with centralized Control-M dashboards.
- Apply event-based triggers to restart failed jobs or hold dependent ones until prerequisites are complete.

PERIOD-END CLOSING ACTIONS

- Reviewing IDoc interfaces and system status.
- Pre-close FI activities: accruals, open payables/receivables, bank reconciliations.
- Final posting of logistics documents in MM/SD.
- CO activities: assessments, distributions, locks/unlocks.
- Materials Management period changes.
- General Ledger activities: foreign currency revaluation (FAGL_FCV), balance carryforward (FAGLVTR).
- Accounts Payable/Receivable carryforward (SAPF010).
- Asset Accounting year-end close (AJAB) and fiscal year change (AJRW).

DATA HANDOVER POST-PRODUCTION

- Automatically schedules and executes depreciation runs and asset postings at the right time in the close sequence.
- Ensures that all asset movements (additions, retirements, and transfers) are processed consistently across systems.
- Integrates asset accounting tasks with other SAP close processes, ensuring accurate and synchronized financial reporting.
- Reduces manual intervention and audit risk by enforcing repeatable, controlled job execution for asset activities.

POSITIVE BUSINESS IMPACT FOR SAP CUSTOMERS USING CONTROL-M

✓ PREDICTABLE, RISK-REDUCED S/4HANA MIGRATIONS

Control-M orchestrates ECC and S/4HANA workloads in parallel, simulates cutovers, and embeds automation from Day 1 to reduce post-go-live risk.

✓ END-TO-END SAP VISIBILITY

Gain unified, auditable control across ECC, BW, CRM, SRM, and S/4HANA, plus non-SAP systems, for SLA-driven execution.

✓ UNIVERSAL ORCHESTRATION FOR SAP BW & HYBRID LANDSCAPES

Integrate BW with external sources and orchestrate across cloud, legacy, and file systems with real-time alerts to prevent reporting delays.

✓ BTP INTEGRATION FOR CLEAN CORE & INNOVATION

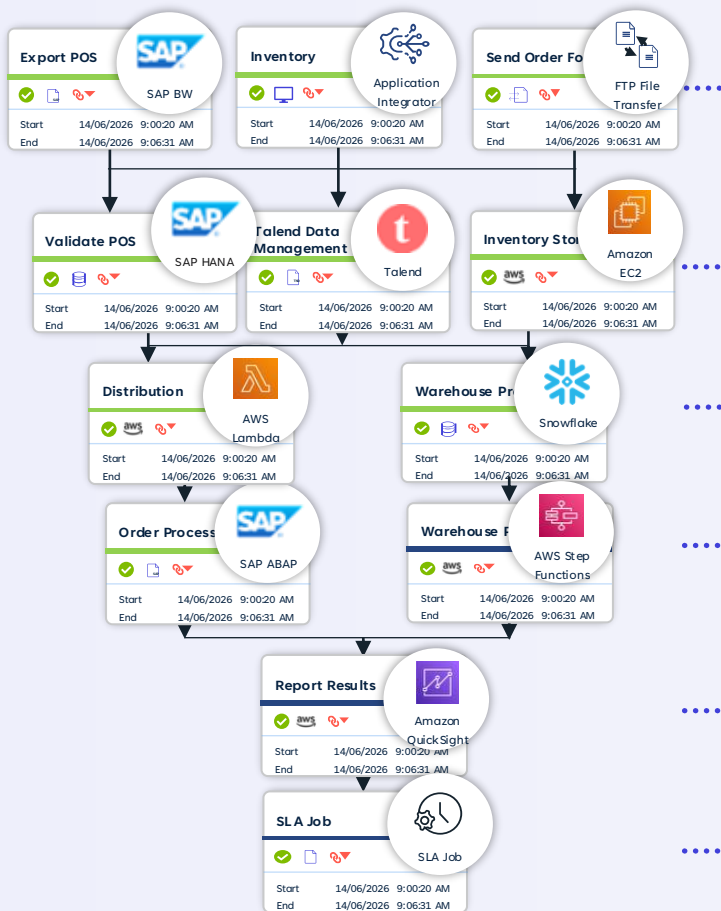
Orchestrate BTP extensions, APIs, and custom apps while maintaining a clean core and aligning innovation with core ERP workflows.

✓ OPERATIONAL STABILITY & SLA ASSURANCE

Detect hangs, resource issues, and dependency failures early to maintain uptime and meet SLAs.

ANALYTICS & REPORTING WORKFLOW

Simplified representation of SAP workflows, the workflow may contain more and/or different jobs in a production.



- Export Point of Sales (POS) System with various sources
- Send automated storage and retrieval system takes & stores goods

- Validate & import the required files, validate & cleanse data, & load it into the data lake

- Trigger data processing jobs running algorithms to trigger warehouse & order processed to start distribution

- Trigger further SAP jobs & AWS Step Functions processing warehouse orders & also give visibility of orders to correct packing stations
- Send transformed data for analytics

- Run AWS QuickSight data refresh operation to update the info used for BI reports & dashboards algorithms
- Observability around distribution

- Monitor complete Demand Forecasting service & report on any delays

UNIVERSAL ORCHESTRATION PLANE: TURNING CHAOS INTO CONTROL

AI/App/Data/Infra

S/4 MIGRATIONS & RISE

Control-M reduces migration risk and accelerates time-to-value by orchestrating cutover and validation workflows across SAP and non-SAP systems.

S/4HANA & BTP INNOVATION

Control-M orchestrates workloads across SAP BTP and S/4HANA, integrating APIs, IDocs, and external services.

MODERN DATAOPS

Control-M unifies SAP data movement across BW/4HANA and external data warehouses like Snowflake, Databricks, BigQuery, and Azure.

PREDICTIVE PROCESS SLA MANAGEMENT

Predict issues before they affect operations. Control-M monitors SAP process performance, forecasting potential SLA breaches.

ENTERPRISE VISIBILITY

Gain a single pane of glass across SAP S/4HANA, BTP, and connected applications.

EFFECTIVE CONTROL AND MEASURES

Establish strong governance across SAP workloads. Control-M enforces standards, provides detailed audit logs, and supports compliance reporting

EFFICIENT MANAGEMENT

Automate SAP housekeeping, monitoring, and background jobs to reduce manual intervention.

PERFORMANCE & SYSTEM AVAILABILITY

Control-M optimizes workload execution and system utilization by balancing SAP job priorities and resources dynamically.

COMPLIANCE & CLOUD MODERNIZATION

Control-M ensures traceable job execution, encrypted credentials, and compliance with internal and external audit requirements.