

one:cx is your CI/CT platform for secure automotive software

one:cx is a cloud-native platform that helps automotive OEMs, suppliers, and partners move from linear, siloed development to agile, iterative software delivery. It provides end-to-end CI/CD pipelines, integrated test-infrastructure orchestration, and a single source of truth for all vehicle-software artifacts, all while scaling elastically across the enterprise.

Features overview

Report & Release

Edition	connect	flow	scale	enterprise
Test results dashboards	✓	✓	✓	✓
Report management <ul style="list-style-type: none"> Comprehensive report management with comparison, collaborative filtering, sharing, and AI-ready central test data. 	✓	✓	✓	✓
Release management <ul style="list-style-type: none"> Structured release-result overviews with goal tracking, meta-data-based organization, real-time coverage, and protected archived campaigns. 	✓	✓	✓	✓
Defect tracking with Jira <ul style="list-style-type: none"> Template-based Jira issues, result links, and result-based views. 		✓	✓	✓

Infrastructure management

Edition	connect	flow	scale	enterprise
Test resource management and monitoring <ul style="list-style-type: none"> Central test resource inventory with attribute tagging, continuous status monitoring, and direct remote desktop access. 	✓	✓	✓	✓
Zero-loss report upload <ul style="list-style-type: none"> Automatic report queuing with full detail retention. 		✓	✓	✓
Test resource intelligence <ul style="list-style-type: none"> Automatic capture of software, hardware, change history, and usage data for each test resource. 		✓	✓	✓
Test resource booking <ul style="list-style-type: none"> Infrastructure booking for reserving shared test resources across teams. 		✓	✓	✓
Scale virtual worker nodes <ul style="list-style-type: none"> Dynamic virtual worker nodes for SiL, trace analysis, and workflows, automatically managed from a user-provided container image. 			✓	✓
Calendar-controlled test execution <ul style="list-style-type: none"> Booking-driven calendar control, with booking-specific abort rules and configurable interrupt behavior. 			✓	✓

Build & Integration

Edition	connect	flow	scale	enterprise
Artifact management <ul style="list-style-type: none"> Unified, metadata-enriched storage abstraction with direct artifact upload/download and external "link-storage" referencing across Artifactory, S3, and network drives. 		✓	✓	✓
Artifact control <ul style="list-style-type: none"> Composite artifact management with reusable components, dependency tracking, rich metadata, custom upload checks, and promotable/revocable artifact states. 		✓	✓	✓

Test process & integration

Edition	connect	flow	scale	enterprise
<p>ALM integration</p> <ul style="list-style-type: none"> End-to-end ALM traceability framework with one:cx integration and template workflows for major ALM systems (Codebeamer, Jama, IBM ETM, Polarion). 	functionality based on flow.kit , which is limited	✓	✓	✓
<p>Remote test execution</p> <ul style="list-style-type: none"> Remote playbook-based test execution with automated environment setup/cleanup, artifact retrieval, CRON-like scheduling, and priority-based task handling. 		✓	✓	✓
<p>Test order management</p> <ul style="list-style-type: none"> Unified test order management combining manual and automated scope, planned and executed via ALM-linked test orders. 			✓	✓
<p>Full test orchestration</p> <ul style="list-style-type: none"> Parallel, equipment-aware test plan distribution with calendar-based scheduling, large test-farm overview, and priority-based job interruption. 			✓	✓
<p>ecu.test</p> <ul style="list-style-type: none"> Unlimited ecu.test licenses for all validation activities under the enterprise agreement. 				✓

AI-powered services

Edition	connect	flow	scale	enterprise
<p>ecu.test agent – test case implementation</p> <ul style="list-style-type: none"> AI assistant generating test implementations instantly, drastically reducing manual test creation time. 				✓
<p>data.app agent</p> <ul style="list-style-type: none"> Intelligent data agent providing role-specific visualizations from detailed debugging charts to aggregated management KPI dashboards. 		Limited concurrent requests – varies by edition (see quote)		✓

Collaboration

Edition	connect	flow	scale	enterprise
flow.kit <ul style="list-style-type: none"> Block-based custom test-process automations triggered by internal or external events. 	≤ 3 configurable flow triggers and sequential processing	✓	✓	✓
Process automation <ul style="list-style-type: none"> Automated quality-gate-driven approvals with measurable criteria, flexible Quality Gate types, and conditional handover, notifications, and follow-up tests. 		✓	✓	✓
Staging automation <ul style="list-style-type: none"> Cross-departmental staging with shared Quality Gates, pull-based shared states, and independent projects with transparent cross-project dependencies. 			✓	✓
Strategic partnership with tracetrionic <ul style="list-style-type: none"> Strategic governance board membership, premium global support, early feature access, joint innovation projects, and project-specific KPI dashboards. 				✓

IT & Systems

Edition	connect	flow	scale	enterprise
Enterprise-ready IT integration <ul style="list-style-type: none"> Secure, compliant test foundation with RBAC and observability. 	✓	✓	✓	✓
Automatic role mapping <ul style="list-style-type: none"> Zero-touch IAM sync with automatic role mapping and instant, right-level access via corporate login. 			✓	✓
Enterprise-ready compliance <ul style="list-style-type: none"> Central enterprise compliance policies for all critical test and monitoring data. 				✓

one:cx – Minimum system requirements

The following values represent the minimum configuration to get **one:cx** operational. Scale resources upward based on actual workload and performance requirements.

Category	Minimum specs	notes
Network	<ul style="list-style-type: none"> ▪ Dedicated virtual network (v-net) for secure communication ▪ Continuous availability ▪ Outbound Internet access (for deployment) <ul style="list-style-type: none"> - Container Registry Private OCI-compatible registry https://registry.tracetronic.com 	Secure and stable intra-cluster communication and updates
Domain & TLS	<ul style="list-style-type: none"> ▪ Fully qualified domain name (FQDN) for the licensing ▪ Valid TLS certificate for every (sub-)domain hosting a one:cx service 	Internal domains are acceptable; use separate sub-paths per service for easier routing
Kubernetes cluster	<ul style="list-style-type: none"> ▪ Kubernetes v1.33 or newer (current supported version recommended) ▪ 2 worker nodes <ul style="list-style-type: none"> - ≥ 4 vCPU, - ≥ 16 GB RAM ▪ StorageClass with ReadWriteMany support ▪ Kubernetes Secrets for config data <ul style="list-style-type: none"> - On managed services (AKS, EKS, GKE) enable the appropriate CSI-driver for secret store access 	All containers are Linux-based
Database layer	<ul style="list-style-type: none"> ▪ ≥ 2 PostgreSQL v15 or newer <ul style="list-style-type: none"> - ≥ 2 vCPU, - ≥ 4 GB RAM ▪ 1 ArcadeDB <ul style="list-style-type: none"> - ~ 0,5 vCPU, - ~ 2 GB RAM 	
Persistent storage	<ul style="list-style-type: none"> ▪ Project Management – Persistent Volume Claim (PVC) with ReadWriteMany (e.g., NFS, Azure Files, Amazon EFS), at least 1 GB ▪ Artifact Management and Report Management – PVC with ReadWriteOnce (can reuse the same storage class) ▪ Artifact Control - Persistent Volume Claim (PVC) mit ReadWriteMany - 5 GB 	Choose backend based on latency, durability & cost policies
Optional: Large Language Models	Provide an external LLM endpoint if AI-driven features are required	Examples <ul style="list-style-type: none"> ▪ ≥ Claude Sonnet ▪ ≥ OpenAI GPT ▪ ≥ GPT-OSS ▪ ≥ QWEN-3 ▪ ≥ QWEN QwQ
Officially supported web browsers	<ul style="list-style-type: none"> ▪ Microsoft Edge 84 or higher ▪ Mozilla Firefox 78 or higher ▪ Google Chrome 84 or higher 	