Assimilate

Global Cold Chain Compliance Solution

End-to-end temperature Monitoring and Compliance management for Pharmaceutical & Logistics Companies & Cold storage



24/7
Real-time Monitoring

100%
Audit Ready

Legacy System Vs. ClimaTrace

Legacy System

Critical Issues

- Manual paper-based temperature logs — 47%
- Siloed monitoring tools across sites — 38%
- Lack of real-time visibility — 62%
- Delayed alert notifications — 53%

System Status

Active

Manual Entry Errors	23/week
Data Silos	12 systems

ClimaTrace

Optimized

Automated Data Capture
Eliminate manual entry with IoT sensors — Active

Unified Platform
Single dashboard for all monitoring — Active

Real-time Alerts
Instant notifications for deviations — Active

Predictive Analytics
AI-powered risk assessment — Active

Unified Platform Overview

Unified Platform Overview

Active

ClimaTrace is a unified monitoring and compliance platform for pharmaceutical, biotechnology, and logistics companies—standardizing cold chain control from plant to user.

Real-time Visibility
24/7 monitoring across sites

Smart Alerts
Instant deviation detection

Global Scale
Multi-site deployment

Audit Ready
Immutable records

Key Capabilities

Core Features

99.9%	24/7	100%
Uptime SLA	Monitoring	Audit ready

* Based On Network Connectivity

Compliance Status

Compliant

- 21 CFR Part 11
- EMA Guidelines
- WHO Standards
- ALCOA+

Core Features

Step 1

Data Capture

GxP-calibrated sensors and data loggers with mobile scanning

Sensors | Loggers | Mobile

Step 2

Continuous Monitoring

Real-time analytics against thresholds and stability budgets

Real-time | Analytics | Geofence

Step 3

Intelligent Alerts

Rules-based alerts with escalation and on-call rotation

Smart | Escalation | SMS

Step 4

Compliance Reporting

Auto-generated reports with immutable audit trails

GDP | Audit | Reports

Processing Time: 2.3s

Success Rate: 99.9%

Data Points: 1.2M

Security: A+

Product Experience & Interface

Operational Dashboard

Temperature Range	**2.4°C - 8.2°C**
Humidity	**45%**

Audit Log Viewer

User access logs	**Active**
Change tracking	**Active**

Alert Center

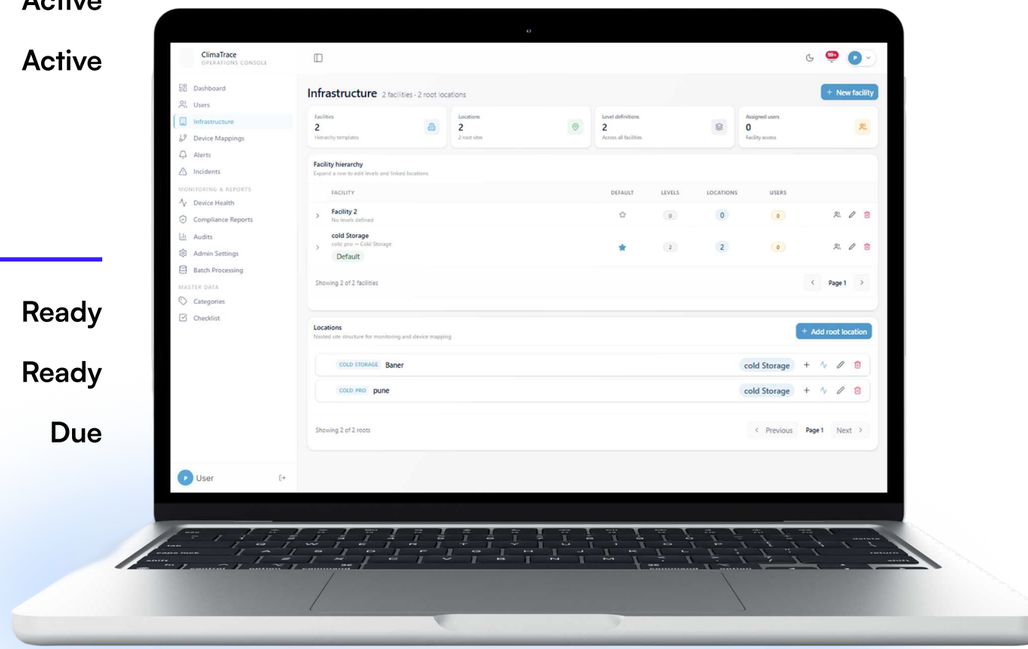
Temperature excursion detected	**2m ago**
Humidity threshold exceeded	**5m ago**
Device offline for 10min	**12m ago**

Reports Library

GDP Lane Report	**Ready**
Batch Environmental Summary	**Ready**
Calibration Due List	**Due**

Device Health

Sensor 001 - Active	**2.4°C**



Key Features & Capabilities

System Integration
APIs to WMS/TMS/ERP, carrier telematics, and common data loggers with SSO support

Real-time Monitoring
Continuous temperature, humidity, location tracking across lanes, sites, vehicles, and assets with live global map

ALCOA+ Integrity
Attributable, legible, contemporaneous, original, accurate, complete, consistent, enduring, available

Automated Alerts
Rules-based alerts via email/SMS/app with escalation and on-call rotation for critical deviations

Global Scalability
Supports multi-site operations, partner access, and hybrid deployment

Immutable Blockchain Audit Trails
Time-stamped, tamper-evident records with role-based access and electronic signatures

Device Management
Calibration tracking, certificates, battery/health status, and proactive reminders

Compliance Reporting
Prebuilt reports aligned to GMP/GDP, EMA Annex 11, WHO guidance, and ALCOA+ principles

Global Use Cases

Cold Chain Logistics

Optimized

- Lane-specific thresholds and stability budgets — Active
- Geofence handoffs and route optimization — Active
- Real-time excursion detection — Active

Multi-Location Warehouse

Optimized

- Multi-zone temperature monitoring — Active
- Cold room, freezer, ultra-cold storage — Active
- Power outage alerts and recovery — Active

Vaccine Distribution

Optimized

- Ultra-cold and 2-8°C product tracking — Active
- Chain-of-custody documentation — Active
- WHO-aligned documentation packs — Active

Clinical Trials Logistics

Optimized

- IP kit monitoring with blinded handling — Active
- Site pharmacy compliance — Active
- Protocol deviation evidence — Active

Compliance Alignment (Global)

GMP (Good Manufacturing Practice)

- Validated environmental monitoring
- Calibration traceability & certificates
- Controlled changes with audit logs

EMA Guidelines

- Computerized systems validation
- Change/configuration control
- Role-based access control

GDP (Good Distribution Practice)

- Continuous storage/transport monitoring
- Chain-of-custody & geofence handoffs
- Excursion capture & documentation

WHO Standards

- Global storage/distribution standards
- Temperature monitoring & mapping
- Inspection evidence support

FDA 21 CFR Part 11

- Attributable, time-stamped records
- E-signatures with unique IDs & MFA
- System validation documentation

ALCOA+ Data Integrity

- Attributable
- Legible
- Contemporaneous
- Original
- Accurate
- Complete

Deployment & Integration

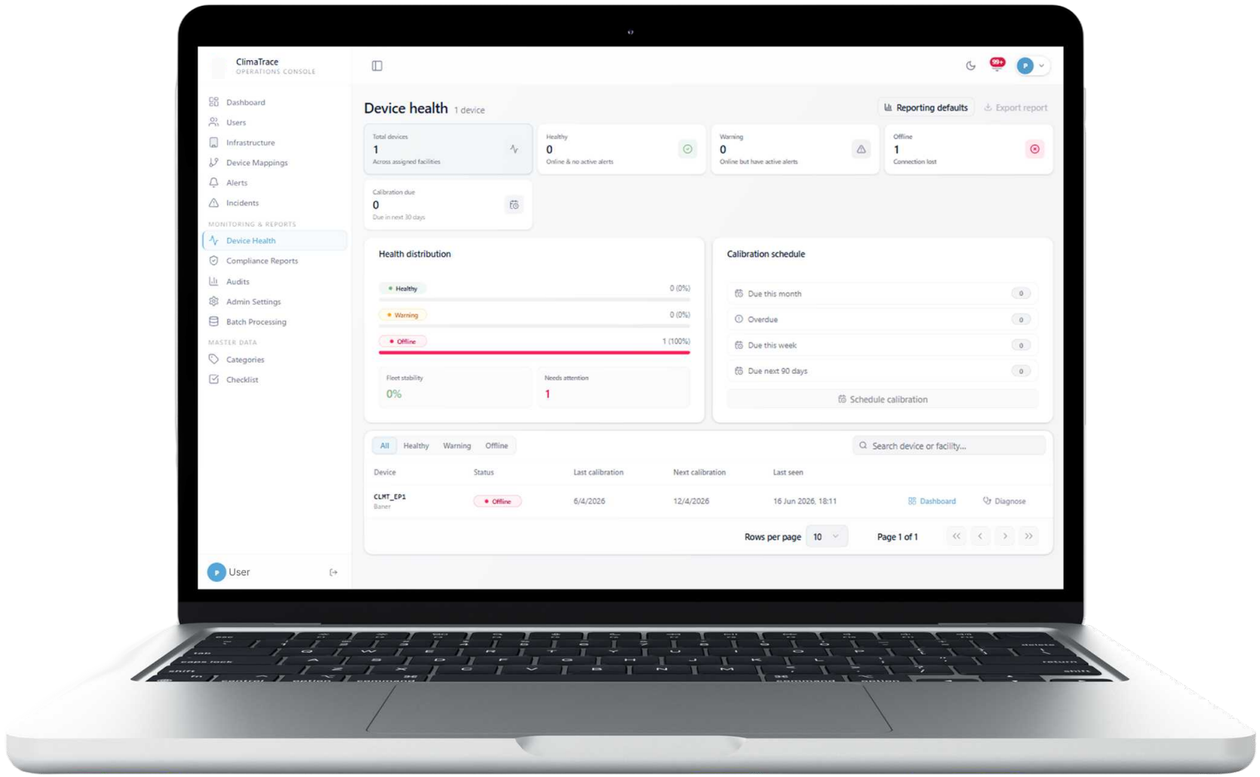
Architecture & Security

	Status
Cloud (SaaS) with regional data residency	Active
Encryption in transit/at rest, SSO (SAML/OIDC)	Active
RBAC with least-privilege access control	Active
Comprehensive audit logging	Active

Implementation Playbook

Pilot	Template	Scale	Optimize
Test lane/site	Global setup	By region	Continuous

- Validation support (IQ/OQ/PQ templates)
- 24/7 monitoring and support
- Admin and end-user training



Why Choose ClimaTrace

Global Scale

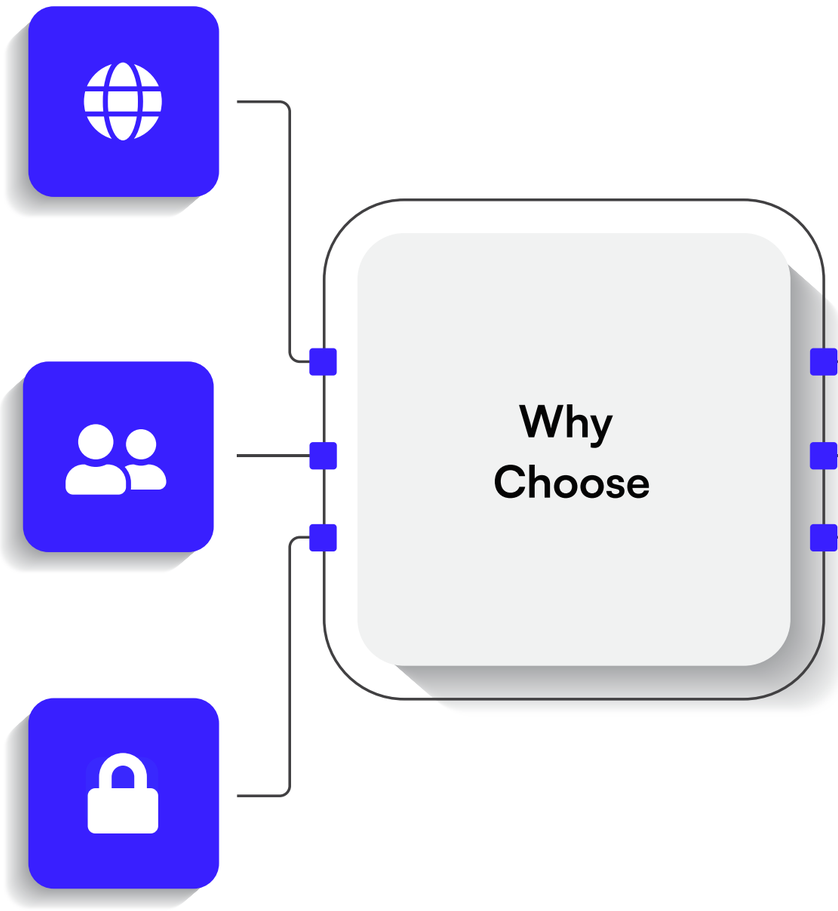
- Multi-site, multi-tenant architecture
- Granular permissions for partners/3PLs
- Regional data residency options
- Scalable across 100+ locations

Usability

- Role-based dashboards and permissions
- Guided SOPs with clear alert ownership
- Intuitive UI with minimal training required
- Mobile-responsive design

Security & Reliability

- Encryption in transit/at rest
- HA cloud with 99.9% uptime
- Detailed audit logging
- Regional data residency options



Compliance by Design

- Validated environmental monitoring with calibration traceability
- ALCOA+ data integrity principles enforced
- 21 CFR Part 11/Annex 11 ready audit trails

End-to-End Visibility

- Real-time monitoring across sites, depots, and in-transit
- Chain-of-custody events with geofence tracking
- Multi-location warehouse monitoring
- Global map with SLA risk indicators

Speed to Value

- Prebuilt workflows and report templates
- IQ/OQ/PQ documentation templates
- Accelerated rollout and inspections
- SOP-guided triage and alerts

Your path to global cold chain compliance

1 GDP (Good Distribution Practice)

1-2 weeks

- Stakeholder alignment: QA/QC, Supply Chain, IT, Compliance
- Target lanes/sites, thresholds, stability limits
- Security, data residency, validation approach

2 Pilot Program

3-12 weeks

- Deploy sensors/connectors; configure lanes and alerts
- SOP-guided alerts; <5 min latency
- 100% audit trail coverage; ≥30% faster resolution

3 Scale & Governance

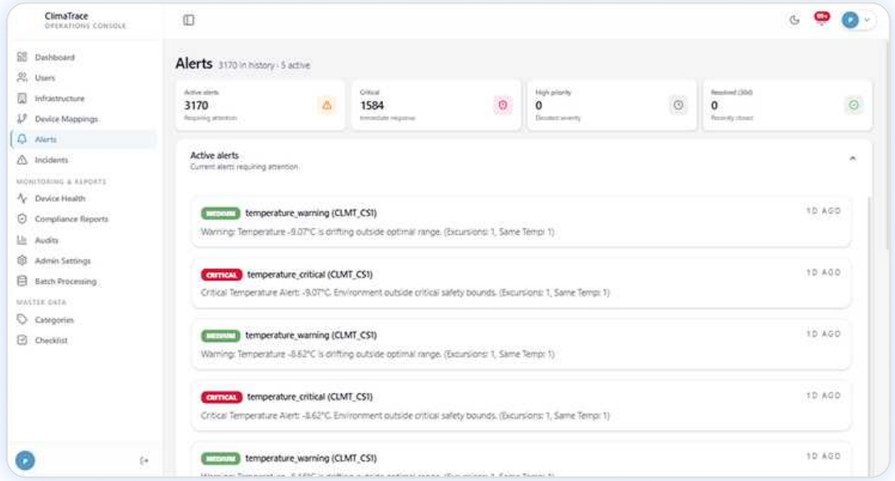
Ongoing

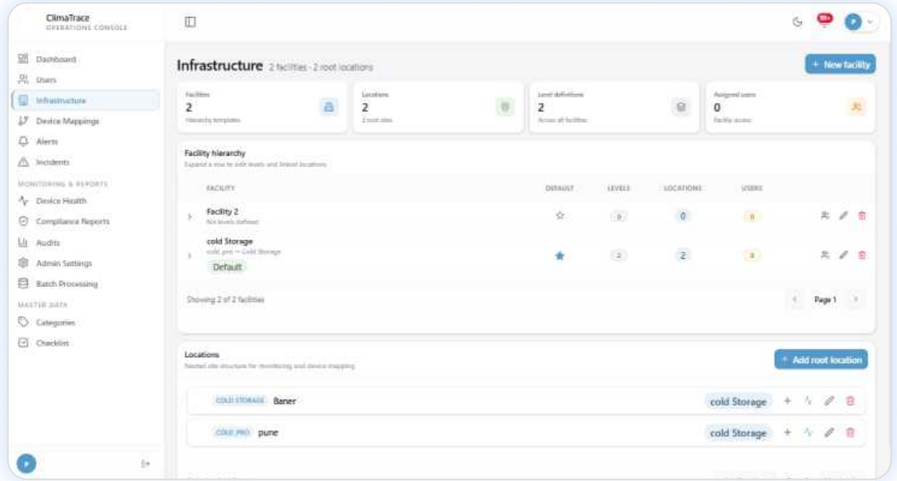
- Global templates, role profiles, change control
- Integrations to WMS/TMS/ERP systems
- Train-the-trainer, handover to operations

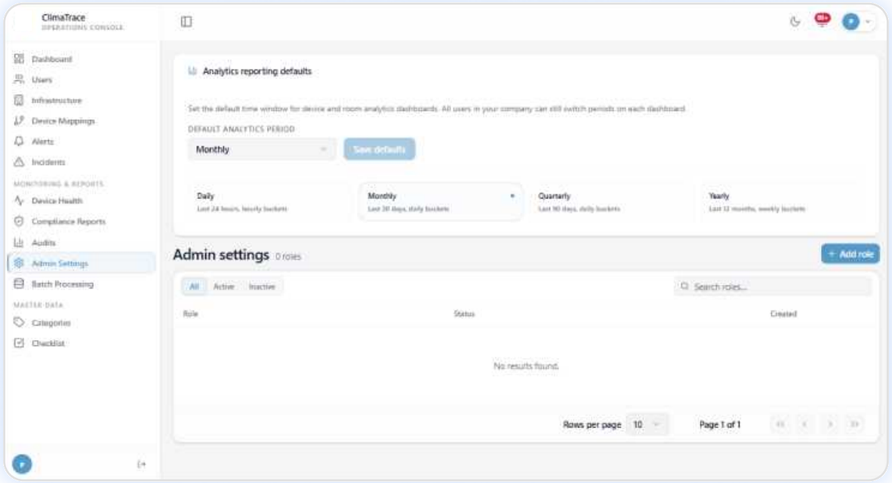
Ready to transform your cold chain compliance?

Schedule Live Demo | Request Pilot Proposal | Security Documentation

Dashboards


ClimaTrace
OPERATIONS CONSOLE
Dashboard
Users
Infrastructure
Device Mappings
Alerts
Incidents
MONITORING & REPORTS
Device Health
Compliance Reports
Audits
Admin Settings
Batch Processing
MASTER DATA
Categories
Checklist
Alerts 3170 in history · 5 active
Active alerts 3170
Critical 1584
High priority 0
Resolved (30d) 0
Active alerts
Current alerts requiring attention
MEDIUM temperature_warning (CLMT_CS1) 1D AGO
Warning: Temperature -9.07°C is drifting outside optimal range. (Excursions: 1, Same Temp: 1)
CRITICAL temperature_critical (CLMT_CS1) 1D AGO
Critical Temperature Alert: -9.07°C. Environment outside critical safety bounds. (Excursions: 1, Same Temp: 1)
MEDIUM temperature_warning (CLMT_CS1) 1D AGO
Warning: Temperature -8.62°C is drifting outside optimal range. (Excursions: 1, Same Temp: 1)
CRITICAL temperature_critical (CLMT_CS1) 1D AGO
Critical Temperature Alert: -8.62°C. Environment outside critical safety bounds. (Excursions: 1, Same Temp: 1)
MEDIUM temperature_warning (CLMT_CS1) 1D AGO


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Categories
Checklist
Infrastructure 2 facilities · 2 root locations
+ New facility
Facilities 2
Locations 2
Level definitions 2
Assigned users 0
Facility hierarchy
FACILITY DEFAULT LEVELS LOCATIONS USERS
Facility 2
cold Storage
Default
Showing 2 of 2 facilities
Page 1
Locations
+ Add root location
COLD STORAGE Baner cold Storage
COLD PRO pune cold Storage


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Categories
Checklist
Analytics reporting defaults
Set the default time window for device and room analytics dashboards. All users in your company can still switch periods on each dashboard.
DEFAULT ANALYTICS PERIOD
Monthly
Save defaults
Daily
Last 24 hours, hourly buckets
Monthly
Last 30 days, daily buckets
Quarterly
Last 90 days, daily buckets
Yearly
Last 12 months, weekly buckets
Admin settings 0 roles
+ Add role
All Active Inactive
Search roles...
Role Status Created
No results found.
Rows per page 10
Page 1 of 1

Assimilate

Let's Build The Future

Of Intelligent Enterprises - Together

USA (HO)
121 Pembroke Terrace, Glastonbury, CT 06033

UAE
Meydan Grandstand, Dubai, United Arab Emirates

INDIA (ODC)
2nd Floor, Signet Corner, S.No. 134/5+6, Baner, Pune - 411045

+91 9175529151

sanjay@assimilatetechnologies.com