

TELECOM & IDC INFRASTRUCTURE OPERATIONS

One platform for the telecom data center.

Unified infrastructure operations for telecom operators — covering IT, network, facility, and IDC service workflows across multiple environments.

Telecom operators run some of the most demanding data center environments in the world: mixed IT and network infrastructure, multi-tenant IDC operations, large-scale hardware lifecycles, strict SLA obligations, and the growing complexity of DCI and cloud resource pool management.

Sensaka brings infrastructure monitoring, asset management, automated inspection, alarm management, energy visibility, and customer-facing IDC service operations into **one unified operations platform** — built for the scale, structure, and service models of telecom and IDC environments.

AT A GLANCE

24/7

Automated inspection in place of manual hardware walks

Full lifecycle

Arrival → acceptance → rack → OS → monitoring → retirement

Multi-tenant

IDC tenant equipment, staff, partner and service workflows

Open APIs

CMDB, ITSM, cloud platforms, SMS, email integration

COVERAGE

Servers

Storage

Network devices

Cabinets

UPS

Batteries

PDU

Precision AC

Access control

Cloud resources

DCI links

Resource pools

PURPOSE-BUILT FOR TELECOM DATA CENTER COMPLEXITY







IT, network, facility, and IDC services in one view.

§ 01

Telecom operators manage infrastructure that spans physical rack space, power and cooling systems, server and network hardware, customer-hosted equipment, and an expanding range of cloud and DCI services — often across multiple sites, with mixed ownership and complex service relationships. Sensaka gives operations teams a single platform to manage it all.

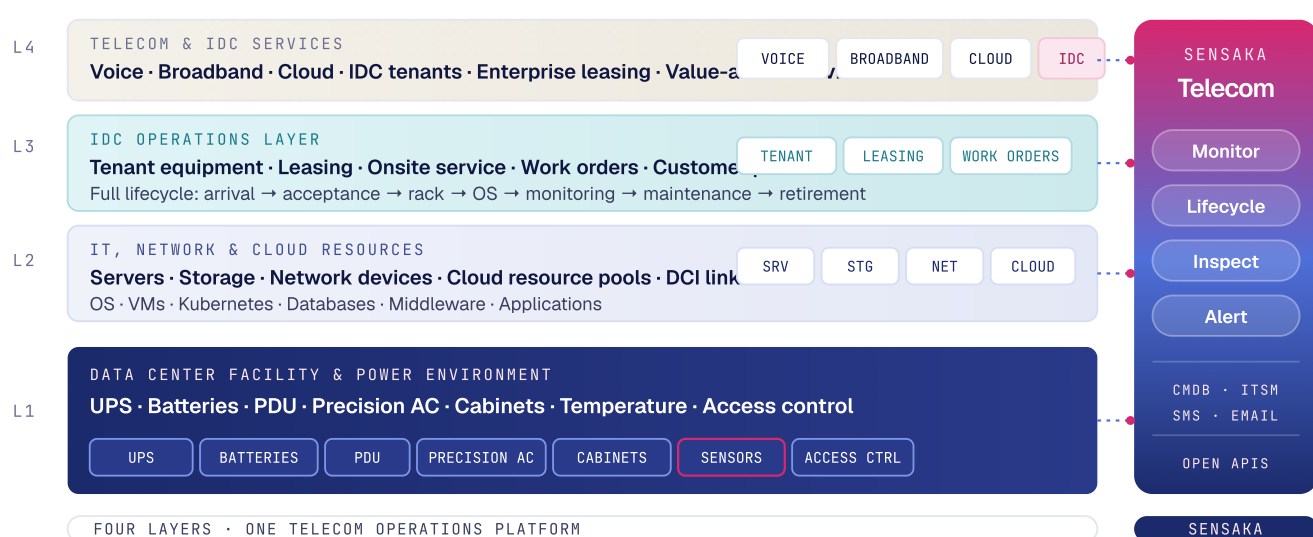
CORE CAPABILITIES

§ 02

<div style="display: flex; justify-content: space-between; align-items: center;">  01 </div> <p>Unified Infrastructure Visibility</p> <p>Monitor servers, storage, network devices, cabinets, power, cooling, UPS, batteries, access control, and environmental sensors from one operations platform.</p>	<div style="display: flex; justify-content: space-between; align-items: center;">  02 </div> <p>Telecom IDC Operations</p> <p>Support IDC tenants, IDC staff, partners, customer service, leasing workflows, value-added services, and external service processes in one integrated platform.</p>	<div style="display: flex; justify-content: space-between; align-items: center;">  03 </div> <p>Hardware Lifecycle Management</p> <p>Manage devices from arrival, acceptance, and rack installation through OS deployment, asset registration, monitoring, maintenance, repair, and retirement.</p>
<div style="display: flex; justify-content: space-between; align-items: center;">  04 </div> <p>Automated Inspection & Alerting</p> <p>7x24 automated hardware health checks, component-level fault detection, automatic maintenance workflows, and work order generation — replacing manual inspection rounds.</p>	<div style="display: flex; justify-content: space-between; align-items: center;">  05 </div> <p>DCI & Adjacent Operations</p> <p>Give DCI and data center connectivity projects better infrastructure visibility — servers, storage, network, facility, capacity, energy, and fault status complementing connectivity services.</p>	<div style="display: flex; justify-content: space-between; align-items: center;">  06 </div> <p>Cloud Resource Pool Operations</p> <p>Unified operations for servers, storage, network, cloud resources, CMDB, ITSM integration, capacity analysis, resource scheduling, topology visibility, and cost management.</p>

From the tower to the tenant — one operations layer.

FIG. 01 / TELECOM STACK



WHY SENSAKA FOR TELECOM OPERATORS

From reactive operations *to* preventive infrastructure management.

THE PROBLEM

Mixed infrastructure, fragmented visibility.

Telecom operators manage servers, network equipment, facility systems, cloud resources, and tenant equipment — often across multiple sites, using separate tools for each domain.

- Manual inspection drives high operational cost.
- Asset and CMDB data drifts from reality quickly.
- Hardware faults are found late, after service impact.
- IDC lifecycle workflows rely on spreadsheets and email.
- Capacity, energy, and fault data live in separate systems.

WHAT SENSAKA CHANGES

One platform. Proactive, preventive, connected.

Sensaka brings infrastructure monitoring, lifecycle management, automated inspection, alarm management, and IDC service operations into one platform — giving telecom operations teams:

- Unified visibility across all infrastructure domains.
- Automated inspection replacing manual hardware walks.
- Accurate asset and capacity data, automatically maintained.
- Structured IDC lifecycle workflows for tenant equipment.
- Open API integration with CMDB, ITSM, and cloud systems.

KEY USE CASES

§ 03



Unified infrastructure visibility

Monitor servers, storage, network devices, cabinets, UPS, batteries, AC, access control, and sensors from one operations view.



IDC tenant operations

Manage tenant equipment across its full lifecycle, with structured onsite workflows, work orders, customer portal access, and value-added service tracking.



DCI & connectivity visibility

Complement DCI projects with infrastructure visibility: server, storage, network device, facility, capacity, and fault status at connected sites.



Automated inspection & fault detection

Replace manual inspection rounds with 7x24 automated hardware health checks, component-level alerts, and automatic work order creation.



Energy & capacity operations

Collect device-level power, temperature, and capacity data to support rack planning, power optimization, and safe density decisions.



Cloud resource pool management

Unified monitoring of cloud resource pools: servers, storage, network, VMs, capacity analysis, scheduling, topology, CMDB, and cost management.

PLATFORM CAPABILITIES

§ 04

CAPABILITY	WHAT IT DELIVERS FOR TELECOM OPERATORS
Infrastructure Monitoring	Unified monitoring of servers, storage, network, cloud, and facility systems — all infrastructure layers in one view.
Asset & Lifecycle Management	Component-level asset records, configuration tracking, warranty, rack location, and full device lifecycle from arrival to retirement.
Automated Inspection	7x24 scheduled hardware health checks with component-level fault detection, report generation, and automatic work order creation.
Alarm Management	Alarm rules, filtering, consolidation, escalation, and multi-channel notification (email, SMS, ITSM).
IDC Service Operations	Tenant equipment workflows, onsite service management, leasing, value-added services, and customer-facing service portal.
Energy Management	Device-level power, current, temperature, and rack/room energy data for power planning and optimization.
Cloud & DCI Operations	Cloud resource pool monitoring, topology visibility, capacity analysis, scheduling, and DCI link infrastructure visibility.
Reports & Dashboards	Operational reports, custom analysis, large-screen dashboards, and executive-level service summaries.
Open Integration	RESTful API integration with CMDB, ITSM, cloud management platforms, email, SMS, and partner systems.

BUSINESS VALUE

§ 05

WITHOUT SENSAKA

BEFORE

Manual, reactive, fragmented.

- Manual inspection & reactive fault discovery
- Fragmented tools per infrastructure domain
- Asset & CMDB data drifting from reality
- IDC lifecycle workflows in spreadsheets
- Capacity & energy data hard to see
- Delayed response when SLAs are at risk

WITH SENSAKA TELECOM

AFTER

Preventive, unified, service-ready.

- Automated 24/7 inspection & proactive fault alerts
- Unified view across IT, network, facility & cloud
- Accurate asset & lifecycle data, auto-maintained
- Structured IDC service & tenant workflows
- Device-level energy & capacity visibility
- Integrated CMDB, ITSM & cloud platforms via API