

— DATA CENTER INFRASTRUCTURE MANAGEMENT (DCIM)

DCMon – Data Center Monitoring

From rack to virtual machine, your data center on one screen

DCMon brings data center, rack, server, network device, storage and virtual machine inventory into a single platform. vCenter synchronisation, SNMP/LLDP-based discovery and topology, server room environment monitoring and threshold alarms keep your infrastructure visible at all times.

HIGHLIGHTS

01

Visual rack layout

U-based visual rack view per cabinet; servers, network devices and storage placed with drag-and-drop.

02

vCenter synchronisation

Clusters, ESXi hosts, VMs and snapshots are pulled from vCenter hourly, read-only.

03

Discovery and topology

IP range scanning, SNMP collection of switch ports/VLAN/MAC/ARP and LLDP/CDP neighbours for the topology map.

04

Server room monitoring

UPS, air conditioning, NVR/cameras and fingerprint readers are monitored read-only, with alarms on threshold breaches.

WHO IT'S FOR

Public institutions and municipalities running their own data centers and server rooms

IT teams tracking VMs, snapshots and capacity on VMware

Network teams documenting switch topology across multi-site campuses

Operations teams monitoring UPS, cooling and physical access from one panel

Features 82 FEATURES

The list below shows, module by module, what the current version of the product does.

Overview dashboard 4

- Summary cards for data centers, cabinets, servers, network devices, storage, IPs, licenses and contracts
- Live online/offline (ping) status for servers, network devices and storage
- List of licenses and contracts expiring soon
- Recently updated servers and projects, pending tasks

Physical infrastructure 9

- Define multiple data centers with location, description and cabinet count
- Cabinet records with total/used U and utilisation percentage bar
- Layout plan: U-positioned visual rack view of the selected cabinet, with empty slots
- Lists of physical servers, network devices, storage and virtual servers per cabinet; drag-and-drop placement
- Campus records: address, city/district, coordinates, contact, active/passive/maintenance status
- Automatic coordinates from campus address via OpenStreetMap
- Buildings and floors, with cabinets assigned to floors
- Site links: carrier, circuit ID, speed, WAN IP, VLAN, router/switch details, monthly fee
- Drill down on a 3D map from campus → building → floor → cabinet

IT asset inventory 9

- Physical and virtual servers: hostname, IP, MAC, OS, CPU/sockets, RAM, disk, U size
- Service name, department, purpose, OS owner and console/iLO IP per server
- Network devices: switch, router, firewall, load balancer, access point, network and local printers
- Storage records: SAN, NAS, DAS, block/file/object, capacity and used TB
- Per-device ping check on/off and on-demand status check
- Asset Management: physical, virtual and hypervisor assets in one list with live vCenter matching
- IP records: subnet, gateway, static/DHCP, used/available/reserved, assigned device

- Tabbed filters (physical/virtual, SAN/NAS/DAS, status) and search
- Excel (.xlsx) export, template download and bulk import

Virtualisation (VMware) 9

- Add vCenter servers with one-click sync; automatic hourly sync
- Cluster (DRS/HA state), ESXi host (version, cores, RAM) and VM inventory
- VM list: vCPU, RAM, disk, OS, IP, running/stopped/suspended state
- Start, stop, suspend and reset VMs (with e-mail/SMS code verification)
- Link or unlink a VM to its server inventory record
- Step-by-step VM Deploy wizard: vCenter, cluster/host or automatic DRS, resources, real deployment
- Expiry date for POC/test VMs and cleanup of expired ones from inventory
- Snapshot Check: all VM snapshots, age filter, 30+ day critical indicator
- Hourly capacity record: VM count, allocated vCPU/RAM/disk, CPU and RAM usage %

Network discovery and topology 8

- Network scan by IP range or CIDR; device identification via ping and SNMP
- Select discovered devices and add them to inventory in bulk, with campus assignment
- Fast or full SNMP collection: port, VLAN, MAC and ARP tables
- Automatic switch connection map from LLDP and CDP neighbours
- Save topology to a campus and view saved topologies
- Hourly, daily, weekly or monthly scheduled scans; scan history and results
- SNMP port scan per device: port name, up/down, VLAN, connected MAC
- Switch tree view with right-click jump to discovery topology

Server room environment monitoring 10

- Inventory of UPS, AC, cameras, NVRs and fingerprint readers, assigned to data center/cabinet
- UPS monitoring (RFC 1628 UPS-MIB): battery status, charge %, runtime, voltage, load, alarms
- AC temperature/humidity via direct SNMP (custom OIDs) or the BirSens 6000 module
- Reading history charts: live, last 24 hours, last 7 days
- Threshold rules: single device or type, condition, sustained breach, severity, e-mail recipients
- Hikvision NVR: channel list and status, main/sub-stream snapshots
- Dahua fingerprint: entry logs via real-time push events with fallback polling
- User matching in entry logs, bulk user import and bulk assignment by time range
- After-hours entry, forced door, tamper and duress alarms; SMS on critical
- Wallboard for large screens/TV, refreshed every 5 s, drag-and-drop layout

Web page monitoring 6

- Monitor HTTP/HTTPS pages with GET or HEAD; configurable interval and timeout
- Up criteria: expected HTTP code range, keyword present/absent, response time threshold
- SSL certificate expiry check with days-remaining warning
- Alarm after N consecutive failures, re-notify interval, recovery notice; e-mail and SMS
- Import sites from Cloudflare; external/internal/both exposure classification
- Filter by tag, status and exposure; check now; 30-day check history

Anomalies and notifications 8

- Automatic anomalies: ESXi/vCenter offline, ESXi maintenance, stopped VM, CPU/RAM overcommit
- Warnings for snapshots older than 7/30 days and upcoming POC expiry
- INFO/WARNING/CRITICAL levels, active/resolved views, manual resolve
- Anomaly alerts via e-mail and Slack webhook, level selection, cooldown
- Rules: license/contract expiry, ping failure, environment threshold, web down/up/SSL

- Per-rule recipient users, extra e-mails and phones; exclude inactive devices
- SMTP and SMS provider setup (Teknomart, NetGSM, İleti Merkezi, Sanal Santral), test send
- Sent SMS/e-mail notification log; filter by channel, type and status

Licenses, suppliers and contracts 5

- License records: vendor, type, quantity, key, where used, cost, purchase and expiry dates
- Software records: version, support type (24/7, 8/5), update frequency and fee increase rate
- Supplier records: company, tax ID, contact; contracts linked to each supplier
- Contracts: number, service, scope, cost, dates, text; active/pending/cancelled/expired
- Visual flags for expired and soon-to-expire licenses/contracts

Project and work management 5

- Projects: code, owner, dates, status (active/on hold/completed/cancelled)
- Project servers: role, web server, database, external/internal open ports, public IPs
- Project APIs (base URL, method, auth), timeline and screenshots
- To-dos: priority, assignee, due date, screenshots; pending/completed
- Knowledge base: problem/solution entries, 10 categories, tags and search

Users, security and deployment 9

- Admin, Viewer and Software roles; per-page view/edit permissions
- Activate/deactivate users, change passwords, phone for SMS
- Two-factor authentication via QR code (TOTP, Google Authenticator compatible); admin 2FA reset
- 6-digit e-mail/SMS code (valid 5 min) before changes and live-system actions
- Login attempt limit: 10 attempts per 15 minutes
- User Activity: all changes and logins; filter by user, module, date; before/after detail
- Device and vCenter passwords stored encrypted with AES-256-GCM
- Read-only device access: SNMP get/walk and HTTP GET; no SNMP SET or remote commands

- On-premises installation: container-based with Docker Compose, with a pre-install environment check

Technical specifications

Access	Web browser-based interface and REST API
Device access model	Read-only monitoring (SNMP get/walk, HTTP GET); no SNMP SET
Virtualisation	VMware vCenter / ESXi (read-only sync)
Monitoring protocols	SNMP v2c (get/walk), ICMP ping, HTTP/HTTPS
Topology discovery	LLDP and CDP neighbour tables
Environment devices	UPS-MIB UPS, BirSens 6000, Hikvision NVR, Dahua fingerprint
Notification channels	E-mail (SMTP), SMS, Slack (anomalies)
SMS providers	Teknomart, NetGSM, İletişim Merkezi, Sanal Santral
Authentication	Password + TOTP 2FA, e-mail/SMS code before actions, login rate limiting
Deployment	Docker Compose (on-premises)

DEPLOYMENT Installed on the customer's infrastructure with Docker Compose (front end, API and database containers).

Book a demo or request a quote

Contact us to see the product in your own environment and discuss scope and pricing.

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