

Features and Benefits: dcTrack® DCIM Operations



Features
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Benefits

Solutions	Features	Description	Benefits
Asset Management	Asset Tracking	Utilize standard out of the box fields or add your own custom fields to track all physical infrastructure asset details and their relationships. Easily search, filter, sort, and save custom views of your filtered data sets. Quickly show or hide any data type from your views and easily share asset list or asset record views with your team members or other departments. Easily drill up or down to other infrastructure that has a relationship with an asset.	Database-driven asset tracking with Excel®-like usability provides ease of use with data accuracy.
	Asset Audit with Barcode/QR Code Scanning	Built-in logic and voice response guide you through an audit of rack contents or pallets of new equipment arriving on the dock. Scanning cables (e.g., patch cords) brings up the entire circuit trace.	Faster and more accurate asset audits. Faster troubleshooting by seeing where a cable goes end-to-end.
	Custom Fields, Tabs, and Panels	Add various types of custom fields and apply them to one or more types of asset classes. Custom field types include Text, Text Area, Numeric, Date, Checkbox, Single Select List, Multi Select List, and Tags. Users can create their own tabs and design their own panels for layout of custom fields and apply those fields to different equipment types.	High customizability ensures all customers can track anything of value to their operations.
	Bulk Editing	Easily filter down or multi-select asset records and bulk edit multiple fields at once via the GUI.	Bulk actions saves time and improves productivity.
	Cloning	Allows for fast replication of multiple items, including items they contain. Items include Cabinet, Device, Network, Data Panel, UPS, Floor PDU, Power Outlet, Rack PDU, CRAC, and Probe class items.	Simplifies rollout of new business services and their associated items.
	Importing and Exporting of Data	Sunbird's DCIM solution uses multiple methods for importing existing data: 1. SNMP discovery 2. Importing floor objects from drawings 3. Bi-directional web services API 4. Import wizard using spreadsheets ■ Locations ■ Data Connections ■ Asset Items ■ Power Connections ■ Data Ports ■ Power Outlet Circuiting ■ Power Supply Ports	Quick and easy way to get your system up and running. Easy to migrate from other solutions such as Excel® or other CMDB databases, and electronic connection enables data accuracy.

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	Asset Search	All items maintained in Sunbird's DCIM solution are organized in one database and are easily searchable by a web browser. It provides all of the information about the asset including item type, function, administrator, and port location as well as any custom fields unique to a particular device. Users can perform simple or more refined filtered searches.	Operational efficiency.
	Virtual Servers	VM hosts are tracked as any server item with the exception that there is a "cluster" checkbox and cluster name/number field. Each VM will be created as any server and will have the VM checkbox selected and "cluster" field filled with the same cluster as its host(s). The ITEMS API can be used to automatically create, update, and delete VMs.	Adds flexibility in selecting IT item and adds efficiency.
	Blade, Line Card, and Chassis Asset Management	Support for all server and network chassis and blade/line card configurations including front and back, number of slots, servers, and network, half slot, double slot, and internal connectivity.	Easy-to-view illustrations provide a clear visual understanding of blade configurations.
	Parts & Spares Management	Centrally track the inventory and assignments of all hard drives, cards, memory modules, power supplies, patch cables, boxes of screws, SFP ports, expensive line cards, spares, and any other subcomponent. Track parts collectively or individually by serial number. Manage the inventory of parts across all your sites.	Improve uptime by ensuring availability of spare parts. Save money by ensuring defective parts are returned to the manufacturer. Streamline planning by ensuring all parts are available to roll out new equipment for new services/projects.
	"Port Ready" Models Library and "My Company Library" Tool	Extensive models library includes over 44,000 data center equipment templates. The library is "Port Ready," includes equipment images, and allows the customer to display the models used in their environment for ease of use and standardization. Updates are released each month. Users can add to or edit the library to match their specific environment or request updates.	Templates with prepopulated equipment-related data adds efficiency. Routine updates keep models library up-to-date for new makes and models of the IT equipment. The pictures of actual equipment helps remote visualization with 2D and 3D rack or row elevation views.
	Asset Lifecycle Management	Support each step in the asset lifecycle planning, purchasing, storage, staging, installing, and discarding.	Enables full audit trail tracking ensuring all steps are completed and documented.
	Bulk Actions	Issue installation, decommission, quick move, convert to VM, take out of service, and plan to decommission requests.	Perform most common tasks more efficiently.
	Share Links to Views	Easily search, filter, sort, and save custom views of your filtered data sets. Share a link with one or more users they see what you see.	Perform most common tasks more efficiently.

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	Track and Model Liquid Cooling Infrastructure	Provides a digital twin of your liquid cooling infrastructure including CDUs, manifolds, and heat exchangers.	Simplifies deployment planning and potentially maintains uptime for high-density and AI infrastructure.
Capacity Management	Capacity Dashboards	Colorful gauges, graphs, usage trends, and pie charts provide real-time reporting and visualization of capacity for all infrastructure items, including power, power outlets, cooling, floor weight, cabinet space, and data ports.	Provides the ability to quickly see how much capacity is used and how much is available for better capacity planning.
	Capacity Reports	Out of the box reports that provide detailed capacity status of all sites and infrastructure equipment, including cabinet RU space, cabinet power capacity, floor space capacity, data port usage and capacity, cooling capacity, data port usage and capacity, power port usage and capacity, cabinets with most free data and power ports.	Zero configuration reports at your fingertips save time and improve decision making for rolling out new equipment and services.
	3D Capacity Visualization of Floor/Room	Overlay multiple color-coded reports on a 3D floor map to visualize capacity of cabinet RU space, weight, and power.	Quickly see which cabinets have capacity to provision new equipment.
	Intelligent Capacity Search, Place and Reserve	Provides the ability to locate the cabinets in the data center that are the best fit for a group of items that should be added. Allows for search by make and model or any other particular search criteria like U height, cabinet group, cabinet type, cabinet function, cabinet customer, data connectivity and power connectivity requirements. Once space is detected, reservations can be made.	Allows for quick identification of available space, power, and network connectivity, which simplifies change management. Provides the ability to plan for future provisioning of IT equipment.
	Standard Power Budgeting	Equipment models and templates database provides nameplate power specifications and user-definable default % budgets.	Streamlines deployment of consistent makes/models of equipment.
	Auto Power Budgeting	Sunbird's dcTrack DCIM solution can collect real-time rack PDU outlet power readings from any SNMP-enabled intelligent rack PDU via integration with Sunbird's Power IQ DCIM Monitoring software. Device equipment (e.g. server) power budgeting is automated based on equipment make, model, applications, and power utilization trends.	Rack power planning is automated with highly accurate power budget profiles calculated for each device based on how they are used in your environment which improves power capacity utilization and eliminates stranded power. Eliminate manual effort and risk of power capacity planning. Achieve greater utilization of existing resources to save money.

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Connectivity Management	AC Power Path	Model and monitor the AC power path from the main UPS or battery strings to the device power supply and all points in between. Visualize the full power path, including images of each component and connection point as well as budget power capacity and actual utilization at each point. Support for utility feeds, generators and fuel tanks, switchgears, switchboards, transformers, panelboards, battery, UPS, floor PDU, RPP, busways, power outlets, rack PDUs, rack UPSs, rack transfer switches, rack inverters, and rack rectifiers and end-to-end mapping of single and 3-phase circuits.	End-to-end view of available power improves uptime by preventing a device being added to an outlet that will exceed any breaker threshold in the chain. Allows for better visibility, more efficiency, streamlined costs, and maximized ROI.
	DC Power Path	Model and monitor the DC power path from the main UPS or battery strings to the device power supply and all points in between. Visualize the full power path, including images of each component and connection point as well as budget power capacity and actual utilization at each point. Support for all DC equipment, including DC FAP, rack inverter, plant, plant bay, plant panel, rectifier, DC bay, and DC panel.	Flexibility to support both AC and DC power for new applications like telco, 5G, and edge sites.
	Data Circuit Management	Track/trace cable routes from server NIC through the structured cabling to the endpoint switch, tracking which ports of each hop is utilized. It even supports circuits with MPO connectors.	Adds efficiency tracking relationships in physical network layer and port utilization.
	Data Ports Management	Tracks the physical relationship between active and passive network devices via tracking port level data connections of NICs, copper/fiber patch panels, and network switches. Visualize the full network path, including images of each component and connection point.	Reduces the mean-time-to-repair (MTTR) by accelerating the investigation process for network failures, resulting in cost savings.
	Network Diagram Visualization	Network diagrams are automatically created and updated based on your data connections in the system. View in tiered or mesh mode and customize nodes as shapes, icons, or model images. Search, filter, and color code the entire network in one location or across locations, along with structured cabling and other information in a single pane of glass.	Reduces time spent troubleshooting and performing impact analysis.
	Single-Line Diagram Visualization	Automatic diagrams that track the electrical characteristics and interconnections of all the facility items in your AC or DC power chain including utility feeds, generators and fuel tanks, switchgears, switchboards, transformers, panelboards, DC power plants, and DC bays.	A single pane of glass to see how everything is connected which allows for easier capacity and redundancy management.

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Change Management	Work Order and Workflow Management	Provides the ability to create, approve, route, audit, verify, and track the status and SLAs of requests and work orders to ensure work is done accurately and on time.	Allows for better control over work-order process. Prevents unauthorized changes from being made and keeps data center up to date.
	Web Service API	Allows for easy integration with your existing management systems, such as ticket systems, CMDB, or asset systems. Enables the ability to create and update asset and ticket information.	Enables the electronic transmission of information, eliminating manual entry and increasing data entry efficiency and accuracy.
	Infrastructure Project Management	Fully integrated solution to manage infrastructure deployment projects at every step in the project lifecycle from conception to archive.	Consolidates tools and workflows. Increases efficiency and productivity with streamlined processes and improved collaboration via a single pane into all aspects of any project.
Dashboards and Reports	100+ Out of the Box Charts and Reports for Data Center Business Intelligence	Sunbird's DCIM solution has a full offering of over 100 user-configurable dashboard graphical reports including trend charts, bar charts, pie charts, and gauges that are viewable and exportable via the web browser. Both standard reports and customer report capabilities are available for executive management, data center managers, and field personnel. Reports include statistics for forecasting and trending, e.g. power capacity forecast, capacity gauge, cooling utilization, PUE trend chart, rack energy, and environmental trends.	Management reports made easy. Improve uptime with our power supply redundancy report. Inform contacts when you plan to put a PDU in maintenance mode with our connected to report. Understand all the devices connected to an application when you are organizing an application move.
	Interactive Visual Analytics	Slice and dice data, personalize and save your chart settings, export report data, and even share charts on public SharePoint or Wiki sites with embeddable links.	Democratize data and provide transparency to other team members on capacity, utilization, and KPIs for the data center to increase team collaboration and productivity.
	Report Scheduling	Schedule and automatically send reports out on demand or on a schedule at specific times, days, daily, weekly, monthly, or yearly to key individuals.	Easily and automatically share data, reports, and KPIs with team members or management, saving time on report generation.
	Shareable Report Widgets	Add new reports/chart widgets as they are created and made available for all customers. New widgets are downloadable from Sunbird's Support Portal.	Leverage reports/chart widgets generated for other customers via Sunbird's Support Portal and share data center industry reporting best practices.
	Customizable Dashboard and Report Folders	Personalize reports and save into personal or shared folders to standardize a common view of all pertinent KPIs that your company or teams care about.	Improve common processes and work productivity via sharing common reports, charts, and KPIs.

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	Cabinet-Level Live Power Charts	Preconfigured trending charts for each cabinet. These charts provide trending comparisons for A and B side cabinet power feeds showing cabinet max capacity, planned budget load, and actual power load	Save capital expenditures. Makes it easy to find stranded capacity to defer new cabinet build outs. Know exactly how much capacity you are using and have remaining.
	Cabinet-Level Live Charts for Smart Rack PDUs	Preconfigured trending charts for each rack PDU. These charts provide trending comparisons rack PDU inlets, breaker loads, phases, and outlets. Allows for easy understanding of redundancy and load balancing across inlets, phases, and power supplies.	Efficient use of power resources extends the useful life of your power chain equipment. Improves uptime by ensuring redundancy.
	Custom Reports	Custom reports can also be created with built-in SQL widget. Third party reporting tools can also leverage the ODBC or the ITEMS API for access to the dcTrack database.	Easy integration allows the user to generate custom reports and analytics with hot links to items in report.
	Granular Dashboard Permissions	Enables users with restricted permissions to access dashboards and view filtered chart widget data that includes only the data they have permission to see.	Increases usability and data transparency for internal customers while supporting information security.
2D and 3D Visualization	3D Floor & Row Visualization	Ability to visualize floor space, front/rear rack/row as well as the complete power and network connectivity chain. In addition, there is the ability to visualize AutoCAD® and Visio® floor plan drawings in real time. Display front and rear elevations with high fidelity images.	Clear dashboards provide a quick and easy way to determine available assets and capacity. An end-to-end view of the data center simplifies troubleshooting and assists with “what if” scenarios.
	Drawing, Creation, Editing, and Import	External drawings can be imported to dcTrack’s database. Floor objects can be added in the dcTrack GUI and dcTrack will write those changes to the AutoCAD or Visio drawing.	Easy import and editing of floor maps helps in timely changes to the floor.
	Hierarchical Floor Maps	Use a single floor map drawing to provide a view of the floor with the ability to drill down into individual rooms.	Edit and compartmentalize your floor map without AutoCAD or Visio.
	Cabinet Metrics and Health Details	Quickly see critical cabinet information, real-time and budgeted power, heat output, weight, items in cabinet, available/used ports, events, RU space, equipment name, and images right from the cabinet elevation page.	Provides for a fast view of capacity and cabinet information.
	2D/3D Rack Elevations	Ability to multiselect and view rack elevations or blade chassis side by side, front or back, to see utilization and capacity of cabinets.	Simplifies and improves planning for provisioning of new equipment and services.

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	Busway and Tap Box Visualization	Remotely visualize busways and meter locations in 3D. Understand the make, model, status, and connections. Drilldown to understand the phase wiring and power capacity utilization.	Improves uptime and increases efficiency with power resources. Enables easy understanding of three-phase balance and remaining power capacity on the busway and the tap box provided you have the appropriate meters.
	Suspended and Compartment Cabinet Visualization	Visualize to exact scale suspended and compartment cabinets including asset management.	Provides ability to remotely plan work and manage your data center by supporting all of your cabinet configurations.
	World Map Visualization	Provides a visualization of the health of all your locations by address or GPS coordinates with a clear red/yellow/green health status for each site.	See the health and power capacity of all your sites at a glance.
Automation	ServiceNow Certified Connector	The Sunbird dcTrack DCIM Connector enables bi-directional updates of asset and ticket information.	Reduces manual double entry of information and enhances the value of the information in your ServiceNow system.
	CMDB Integration	Standard connectors to ServiceNow alm_hardware and cmdb_ci tables, BMC Remedy, and Ivanti/Cherwell to enable bi-directional exchange of information. Universal connector to integrate with most other CMDB systems with the appropriate APIs. Multiple systems can be integrated with dcTrack simultaneously to automatically create and update assets, ports, VMs, and circuits.	Reduces manual data entry and increases the accuracy of information.
	Change Ticket Connectors	Standard connectors to ServiceNow, Jira, and BMC Remedy to enable the creation and update of change ticket information. Universal connector to integrate with most other ticket systems with the appropriate APIs.	Reduces manual data entry and lost emails and increases the accuracy of information.
	VMWare Integration	Automatically sync VMs to physical hosts and understand relationships between VMs and physical infrastructure supporting those VMs.	Quick impact and what-if analysis of services based on physical infrastructure failures or maintenance.
	Automated Database Backup	Backups of system data, users, and configuration settings are automatically created every 24 hours.	Peace of mind that all data is safe and a restore point is available.
	Rules Engine for Assets, Tickets, and Projects	Automate data entry and workflow processes via conditions and system parameters on either assets, tickets, or projects (e.g., if a field is updated, another field can be automatically updated with specific values based on the rule).	Saves time by automating manual tasks and potentially improves data accuracy by eliminating manual data entry.

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Complete Solution	Enterprise Scalability	Proven polling architecture designed for big data. Battle-tested by customers with 300,000 racks and 1,000s of sites to collect more than 1 billion data points per day.	Sunbird can scale to meet the needs of enterprise-class customers while still providing the performance and automation they require.
	Power IQ® Integration	Seamless integration with Power IQ, Sunbird's DCIM Monitoring software. Adds, moves, or changes made using dcTrack change management asynchronously updates Power IQ information. Display collected data as measured data on the GUI and in reports. Supports single or multiple instances of Power IQ DCIM.	Provides a clear picture of available power, energy, and environmental trends among all assets. Helps provide accurate information on power usage which can be used to save on energy costs and maintain compliance. Multi-Power IQ provides for consolidated tracking of assets across Power IQ systems and sites.
	High Availability	Built-in feature that enables a hot standby system that is continually replicating information in the primary system and can detect lost connectivity situations and automatically or manually switching to a secondary system to avoid loss of service.	Minimize downtime due to outages, support redundancy as part of disaster recovery configurations, provide scalability, and eliminate single points of failure for large and geographically dispersed deployments.
	Upgrades	Simple .bin file to upgrade system for new release features, security patches, and other system updates.	No special resources, professional services, or additional costs needed to upgrade your system.
	Mobile-Ready	Easily scan, search, and edit your DCIM database with all browsers on tablets and mobile devices.	All the information you need for work orders, audits, alerts, and troubleshooting is at your fingertips.
	SAML 2.0, LDAP, and Active Directory Support	Full authentication management. Automation of user and group synchronization.	People efficiency. Make all user adds, deletes, and password updates via LDAP and AD. No need to manually update the changes in the Sunbird DCIM.
	Roles Based Access Control	Users and groups are provided permissions that determine what they can see and do.	Improves information security and provides only relevant information to a user.
	Red Hat OpenShift Deployment	dcTrack can be deployed as a containerized application on Red Hat OpenShift.	Increases operational efficiency and enhances portability across environments by allowing dcTrack to be deployed and managed using existing OpenShift standards, shared OS kernels, tooling, and processes.

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