



# dcTrack® Virtual Appliance: Simplify how you acquire, deploy, and manage Data Center Infrastructure

Sunbird's dcTrack appliance is packaged and delivered as a VMware Ready Virtual Appliance, relieving the overhead associated with acquiring, deploying, and managing software. Compared to other Data Center Infrastructure Management solutions, the dctrack Virtual Appliance greatly simplifies how DCIM is deployed and managed. Sunbird provides all necessary updates to both the application and operating system, ensuring security and compliance for corporate environments.

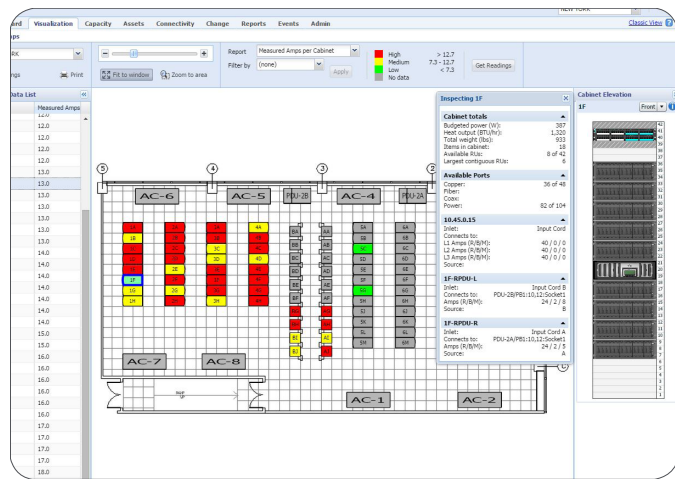
## What are the Benefits of Deploying Virtual Appliances?

**Simpler deployment for enterprise class applications:** Since applications are pre-installed and pre-configured, include an operating system, and are packaged in a run-to-ready format, virtual appliances eliminate complex, expensive, and lengthy, error prone installation and configuration cycles. Simple deployments offer the ability to quickly deploy new builds and applications to local and remote data centers.

**Simplified patch management:** the dcTrack virtual appliance is supported by patches and service packs provided directly by Sunbird. The patches supplied can be applied against the application and the operating system relieving the customer of incompatibility problems that could have occurred had separate patches been provided. Any upgrades to the virtual appliance are also handled directly by Sunbird.

**Enhanced security:** Virtual appliances running as JeOS (pronounced "Juice") - Just enough Operating System - are less vulnerable to security breaches. A JeOS is a stripped down version designed to support the specific workload it runs. Since JeOS only includes the programs and components required to successfully support the specific application, it occupies a much smaller footprint compared to general purpose operating systems and therefore a smaller attack surface. JeOS is also much easier to maintain and manage since fewer updates are required for a slimmer OS. Sunbird utilizes CentOS, a community-supported, free operating system based on Red Hat Enterprise Linux (RHEL), protected with an internal firewall for additional security, closing all incoming ports except 443 (HTTPS) and 5432 (ODBC).

**Higher reliability and Easier IT management:** Sunbird fully tests the entire appliance stack and since all customers run on the same appliance, this ensures high reliability from a common platform. By running production ready virtual appliances on VMWare Virtual Infrastructure, customers need not worry about their dependence on 3rd party tools for IT management. By deploying virtual appliances on VI, customers can leverage key capabilities by default such as VMware VMotion, VMware High Availability, VMware vCenter Server, VMware Distributed Resource Scheduler, and VMware Consolidated Backup.



Sunbird's dcTrack appliance is packaged and delivered as a VMware Ready Virtual Appliance. To simplify management and support compliance, Sunbird maintains and regularly provides updates for all components in the Virtual Appliance, including the CentOS operating system and PostgreSQL database.

The Sunbird dcTrack virtual appliance has a harden Linux operating system for secure and reliable operation. It leverages an internal firewall to close all incoming ports except 443 (HTTPS) and 5432 (ODBC).

## What is a Virtual Machine?

A virtual machine is a tightly isolated software container that can run its own operating systems and applications as if it were a physical computer. A virtual machine behaves exactly like a physical computer and contains its own virtual (ie, software based) CPU, RAM hard disk and network interface card (NIC).

An operating system can't tell the difference between a virtual machine and a physical machine, nor can applications or other computers on a network. Even the virtual machine thinks it is a "real" computer. Nevertheless, a virtual machine is composed entirely of software and contains no hardware components whatsoever. As a result, virtual machines offer a number of distinct advantages over physical hardware.





# dcTrack® Virtual Appliance: Simplify how you acquire, deploy, and manage Data Center Infrastructure

## What are Virtual Appliances?

Virtual Appliances are pre-built software solutions, comprised of one or more Virtual Machines that are packaged, updated, maintained and managed as a unit. Unlike a traditional hardware appliance, these software appliances let customers easily acquire, deploy and manage, pre-integrated solution stacks. This speeds up time to value and simplifies software development, distribution, and management.

## Why Deploy a Virtual Appliance?

Installing and managing software is much easier when the software is delivered as a virtual appliance. Whether you deploy this ready to run software internally or leverage a cloud or service provider, deploying and managing a virtual appliance is simple, yet reliable.

- Virtual Appliances are pre-configured, reducing time and expenses associated with application deployment.
- Save time, money, and resources on patching, maintaining and managing.
- Optimized to run in a virtual environment means more flexibility with how and where your applications run.
- Save space and energy from better utilization of existing servers and IT assets.

## Get More from your Existing Hardware

VMWare customers report dramatic results when they adopt virtual infrastructure solutions, including:

- 60-80% utilization rates for x86 servers (up from 5-15% in non-virtualized PCs).
- Cost savings of more than \$3,000 annually for every workload virtualized.
- Ability to provision new applications in minutes instead of days or weeks.
- 85% improvement in recovery time from unplanned downtime.

Call 732.993.4476 or visit [SunbirdDCIM.com](http://SunbirdDCIM.com)

Sunbird Software is changing the way data centers are being managed. With a focus on real user scenarios for real customer problems, we help data center operators manage tasks and processes faster and more efficient than ever before, while saving costs and improving availability. We strive to eliminate the complexity they have been forced to accept from point tools and home grown applications, removing the dependency on emails and spreadsheets to transform the delivery of data center services. Sunbird delivers on this commitment with unexpected simplicity through products that are easy to find, buy, deploy, use, and maintain. Our solutions are rooted in our deep connections with our customers who share best practices and participate in our user groups and product development process.

Based in Somerset, NJ, Sunbird serves nearly 1,000 DCIM customers worldwide. For more information, please visit [SunbirdDCIM.com](http://SunbirdDCIM.com).

© 2015 Sunbird Software. All rights reserved. dcTrack and Power IQ are registered are registered trademarks of Sunbird Software.