

Wanova Mirage™

Distributed Desktop Virtualization

Data Sheet

Despite the promises of desktop virtualization, adoption has been limited, due, in large part, to the inability of existing desktop virtualization solutions to meet the needs of distributed workers. Wanova is the only solution that combines full desktop centralization with optimized end-user experience for remote and mobile users. Wanova's specialized architecture transforms desktop management, support and protection.

Manage: centralized single-image management, flexible user customization

Wanova lets enterprise IT managers control the base image and guarantee a fast, consistent view of the image at all remote and mobile endpoints. Administrators update a single image in the data center, and the new version of the image automatically and optimally propagates to the endpoints. The old image is replaced within minutes, without requiring execution of complex installation packages.

Wanova does not force a trade-off between single image management and user customization. Users can install their own applications and manage custom data without affecting the integrity of the IT-managed base image.

Support: centralized troubleshooting, fast endpoint re-imaging

With Wanova, a full desktop instance resides in the data center and can be instantly booted on a local physical or virtual machine. Support staff can then troubleshoot the desktop regardless of the user's physical location or network connectivity, and automatically synchronize updates bi-directionally upon completion.

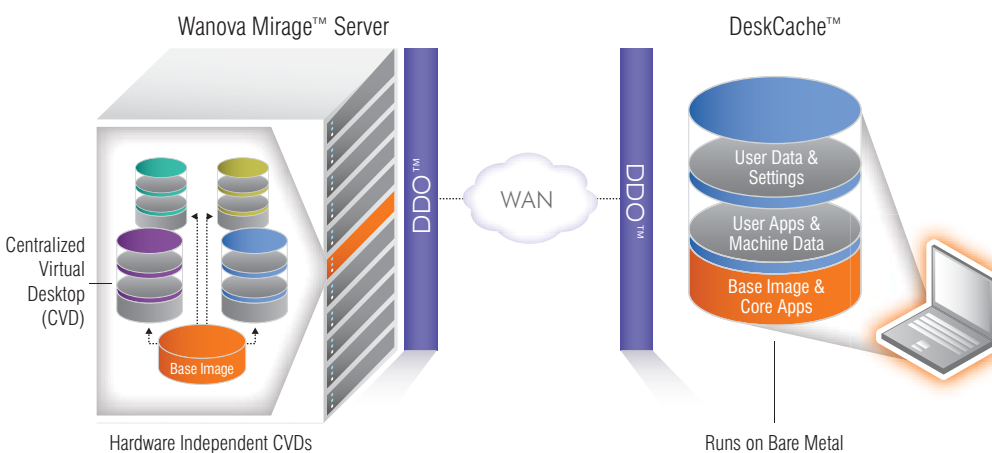
Re-imaging of endpoints has never been so easy and fast – with a click of a button, Wanova delivers a clean base-image within minutes to remote and mobile endpoints, transparently replacing the endpoint image while preserving all user data and customization.

Protect: continuous desktop protection, fast endpoint restore

All data changes made by users propagate continuously to the data center, making the endpoint fully disposable and eliminating the need for desktop backup agents. Upon loss or failure of an endpoint, Wanova leverages its unique optimization technology to deliver a complete instance of the desktop within minutes – including user-installed applications – to a new and remote endpoint, dynamically adapting the image to the hardware of the new endpoint device.



Wanova's Distributed Desktop Virtualization transforms desktop management, support and protection.



Wanova's Distributed Desktop Virtualization Architecture

At the core of the architecture is the Centralized Virtual Desktop (CVD) – a modularized instance of the desktop content that resides in the data center and is used by IT to manage and protect the desktop. At the endpoint, Wanova's DeskCache™ client enables end users to execute workloads on the physical endpoint hardware with native performance – no hypervisors required. Users can also work offline, with changes automatically uploaded to the server upon reconnection to the WAN. Wanova's Distributed Desktop Optimization (DDO) technology optimizes CVD transfer over the network and enables real-time bi-directional synchronization between a CVD and its DeskCache.

Wanova Key Features and Benefits

Features	Benefits
Desktop streaming over the WAN Pre-fetch minimal set, and stream background data on-demand	<ul style="list-style-type: none">▶ Restore the desktop to a remote endpoint within minutes▶ Fix a corrupted remote endpoint within minutes
Global desktop de-duplication Block & file-level deduplication across files, users, network and storage	<ul style="list-style-type: none">▶ Accelerate image transfer up to 100x▶ Reduce bandwidth consumption dramatically
Distributed execution on DeskCache CVD workloads run on an endpoint cache	<ul style="list-style-type: none">▶ Enable high server density – 1000 endpoints per server blade▶ Automatically detect and fetch on-demand cache misses
Full offline support Automatic synchronization of changes upon reconnection	<ul style="list-style-type: none">▶ Enable full support for offline use▶ Provide instantaneous transition; no check-in/check-out required
CVD layering Separates base-image, user data, machine state/user-apps	<ul style="list-style-type: none">▶ Enable single image management with user customization▶ Provide modular control (e.g., selective restore, re-image)
Physical hardware support Wanova manages the base OS	<ul style="list-style-type: none">▶ Eliminate the need to manage multiple OSs on the same client▶ Eliminate the need for a hypervisor at the endpoint▶ Achieve native desktop performance
Base image application layering Base image hierarchy enables IT to define a root base image (OS and core apps), and child images with additional specialized applications	<ul style="list-style-type: none">▶ Reduce the number of base images to manage▶ Control licensing costs by only including applications for required users
Day zero migration Migrate existing desktops to managed desktops gradually and transparently	<ul style="list-style-type: none">▶ Speed deployment with mass provisioning and integration with automated distribution tools▶ Enable in-place installation on existing desktops▶ Avoid user disruption - continue same interaction and workflow▶ Ease adoption - User interaction, interface, and work flow unchanged.
CVD re-assignment Deploy a CVD to a different endpoint	<ul style="list-style-type: none">▶ Enable multiple use-cases: hardware refresh, troubleshoot a remote CVD on a central device, integrate with VDI (execute CVD on a VM in the data-center)
CDP and fast selective restore Propagate all changes to a CVD, and quickly restore needed elements	<ul style="list-style-type: none">▶ Safely protect all endpoint data▶ Recover from failure in minutes, even over the WAN
Global single instance store Do not store redundant data twice	<ul style="list-style-type: none">▶ Reduce storage for CVD content▶ Enhance end-to-end de-duplication performance