



IBM Virtual Desktop V6.6 cuts cost, reduces complexity, and improves coverage for virtual desktop solutions

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At a glance

The following is a small sample of IBM® Virtual Desktop V6.6 functionality:

- Easily installs, configures, and manages virtual desktop environments.
- Rapidly installs and deploys Windows™ and Linux™ virtual desktop images on a single server with the option to scale easily and smoothly.
- Increases end-user mobility without sacrificing corporate or agency security while accessing a virtual desktop from a variety of end-user devices such as Apple iPads, thin clients, Android devices, Netbooks, or laptops.
- Extends the life of existing hardware by utilizing them as thin clients.
- Delivers local area network (LAN) availability and performance to wide area network (WAN) attached remote virtual desktop users.
- Allows virtual desktop users to work offline and synchronize, as needed, when connected to networks.
- Backs up and recovers virtual desktop environments easily and seamlessly utilizing existing backup products and procedures.
- Supports a smooth transition from Windows XP to Windows 7 environments.

For ordering, contact Your IBM representative or an IBM Business Partner.
For more information contact the Americas Call Centers at
800-IBM-CALL (426-2255).

Reference: YE001

Overview

IBM Virtual Desktop V6.6 with Virtual Enterprise Remote Desktop Environment (VERDE) from Virtual Bridges provides a second generation virtual desktop infrastructure (VDI) to address existing virtual desktop costs, complexity, and coverage. With Virtual Desktop V6.6, you get a VDI solution that simplifies operating system, application and hardware management; responds with tighter security for an increasingly mobile corporate and government workforce; provides relief from patchwork VDI solutions that complicate scalability, threaten disaster recovery, and ignore the growing advantages of the cloud revolution.

IBM Virtual Desktop solution powers the deployment of cost-effective, secure, scalable, and yet centrally managed Windows and Linux virtual desktops. It delivers end-user mobility while supporting business continuity and lowering IT costs.

IBM Virtual Desktop V6.6

- Reduces cost of a VDI deployment with a bare-metal install capability that can be configured directly on hardware. This lowers operating and capital costs by improving your time to value, eliminating the need for operating system skills for VDI server installation, and reducing server infrastructure operating system costs typically associated with scaling a solution.
- Improves virtual desktop end-user coverage with an enhanced version of the IBM Virtual Desktop VERDE Branch. This new capability combines cloud-based management with an on-premise virtual desktop deployment. This combination centralizes management in the cloud or data center providing remote office support that brings local area network (LAN) availability and performance to virtual desktop users in remote offices connected over wide area networks (WANs).
- Addresses VDI complexity with a sophisticated network management system that includes a virtual switch for simple configuration of a virtualized network for desktops.
- Supports a smooth transition from Windows XP to Windows 7 environments.
- Brings new life to virtual desktop environments by addressing existing VDI deployment costs, complexity, and coverage issues.

IBM Virtual Desktop V6.7 highlights (November 9, 2012, eGA)

- Provides support for desktop cloud offerings, with multitenant management and provisioning of virtual desktops.
- Enables tenants to do their own management in the cloud with role-based delegation of administrative rights.
- Delivers automated deployment of large IBM Virtual Desktop VERDE clusters.
- Provides control over network bandwidth consumption on a per session basis.

Key prerequisites

For details, refer to the [Hardware and software requirements](#) section.

Planned availability date

IBM Virtual Desktop V6.6

- October 05, 2012 - eGA
- October 26, 2012 - pGA

IBM Virtual Desktop V6.7

- November 9, 2012 - eGA
- December 7, 2012 - pGA

Description

IBM Virtual Desktop V6.6 with Virtual Enterprise Remote Desktop Environment (VERDE) from Virtual Bridges allows you to more effectively manage your virtual desktop environment, while providing more choice and flexibility to end users.

IBM Virtual Desktop components

- IBM Virtual Desktop Server and Distributed Connection Brokers
Each IBM Virtual Desktop Server includes an integrated connection broker and a hypervisor to run VDI sessions managed from and a single management console (VERDE console). These components are tied together in an IBM Virtual Desktop

Cluster, managed by a unique, stateless cluster algorithm to provide a highly scalable VDI solution.

- Master gold images

The IBM Virtual Desktop Gold Image model enables creation and management of a streamlined set of images that are accessed by any number of users. IBM Virtual Desktop supports Windows XP, Windows 2008, Windows 7, and Linux desktops from the same infrastructure. Users run a nonpersistent copy of the Gold Image with all of their personal settings and documents written to a separate disk. This model reduces the number of images to manage, which reduces storage and maintenance costs. Because images are read only, this solution provides native malware resistance to all desktop sessions.

- IBM Virtual Desktop Console and IBM Virtual Desktop User Console

A single web-based IBM Virtual Desktop console provides centralized Gold Image management to create, publish, update, clone, and delete images. The IBM Virtual Desktop Console enables granular desktop security and session policies based on Active Directory or any other directory server. End-user desktop sessions are started through the IBM Virtual Desktop User Console. The User Console provides secure access to assigned guest sessions through SPICE, Remote Desktop Protocol (RDP), or NX protocols.

- IBM Virtual Desktop Live Environment Access Format (LEAF)

IBM Virtual Desktop LEAF is a client-side hypervisor technology that enables users to run virtual desktops locally or from an external portable drive. IBM Virtual Desktop LEAF technology uses the same centralized Gold Image model. When the Gold Image is updated on the central server, updates are reflected in the user's LEAF environment when the user reconnects to the server. IBM Virtual Desktop LEAF includes bidirectional data synchronization for user's documents to the central IBM Virtual Desktop server. This enables users to switch between VDI and offline use while maintaining the same desktop experience.

- IBM Virtual Desktop Cloud Branch Server

IBM Virtual Desktop Cloud Branch solution provides a local area network (LAN) availability and performance experience to wide area network (WAN) connected branch office users. The IBM Virtual Desktop Cloud Branch Server connects to the central IBM Virtual Desktop Cluster and Gold Image repository to replicate the Gold Images and subsequent updates. The virtual desktop sessions are served locally from the IBM Virtual Desktop Cloud Branch Server. Updates to Gold Images can also be done from the Branch Server. Changes are then synchronized with the image at the data center.

Shared storage - IBM Virtual Desktop connects to network attached storage (NAS) shared storage. Shared storage acts as the repository for IBM Virtual Desktop Cluster settings, Gold Master Images, and the user's personal data such as documents, settings, and profiles.

IBM Virtual Desktop key features

- Integrated application management streamlines the deployment of applications inside the Gold Master (packaging of desktop operating system and applications) with unified policy management and improves overall manageability. It works with application virtualization products such as App-V, ThinApp, and Cameyo.
- The more flexible architecture provides the ability to control which images get synchronized to which VERDE branches and persistent virtual MAC addresses for virtual desktops.
- Storage Optimizer caching I/O technology includes Read IOP storage optimization and uses Storage Optimizer for cached Gold Images on the Direct Attached Storage (DAS), reducing the number of input and output operations per second (IOPS) required. This is the single most important metric in VDI desktop performance. Additionally, copy-on-write and copy-on-read features reduce external storage requirements by using local disks.

- Disaster recovery improvements for virtual desktops through clustering enhancements with native and automated cluster master failover, cluster-wide licensing, and unattended cluster-wide install and upgrade.
- Improved virtual desktop end-user experience, mobility, and security
 - SPICE and single sign-on for Windows guests (Windows XP and Windows 7)
 - SPICE support includes Windows 7 32 bit and 64 bit.
 - Red Hat Enterprise Linux (RHEL), CentOS 6 32 bit and 64 bit.
 - Fedora 14 32 bit and 64 bit.
 - Ubuntu 11.04 32 bit and 64 bit.
 - SUSE Linux Enterprise Desktop (SLED) 11 32 bit and 64 bit.
 - Choice of desktop type to provide more end-user flexibility
 - Standard VERDE dynamic desktop delivers robust user experience for productivity and power users who do not need to install their own images, but expect to have persistence for personal settings and documents.
 - Long-life dynamic desktop (persists between Gold Image updates) improves security of the virtual desktop for LEAF users, such as traveling sales executives, who sporadically connect to the corporate network but often use public networks in airports or coffee shops.
 - Support for static desktops provides greater control for fully persistent users, such as developers or engineers, who need to manage their own applications.
 - Support for nonpersistent user profile nonpersistent pools provides ease of use without the need for customization for those who do not need to persistent user preferences, such as call center employees or kiosks.
- LEAF
 - LEAF Managed Endpoint - client-side hypervisor technology that allows users to run their virtual desktops locally on their laptop or desktop or from an external portable drive. One of the main advantages of the Managed Endpoint solution is its use of the same centralized Gold Image model. If the user's Gold Master is updated on the central server, the same updates are automatically reflected in the user's LEAF Managed Endpoint environment when they are connected to the central server (post synchronization). In addition, LEAF Managed Endpoint includes bidirectional data synchronization for user's documents to the central VERDE server. This allows users to seamlessly switch between VDI and offline use while maintaining the same desktop experience. You get seamless mobility and disaster recovery, which are core requirements.
 - LEAF Legacy Endpoint - client-side technology that allows administrators to repurpose older PCs to enable access to VDI sessions. One of the main advantages of the Legacy Endpoint solution is its seamless ability to connect to VERDE VDI sessions, and is included as a component of LEAF for no addition cost. LEAF Legacy Endpoint also supports running from a USB thumb drive or a portable hard drive providing additional deployment options for administrators.
 - LEAF zero endpoint - server-side technology utilizing a PC's existing Preboot Execution Environment (PXE), LEAF zero endpoint enables a client device to boot directly to the user's VERDE VDI environment without installing any software on the client access device. For low-touch deployments of dedicated, older PCs with PXE support, the zero endpoint offers a compelling deployment mode for administrators.
 - Support for USB peripherals for online, offline, and branch VDI users.

Program number

Program number	VRM	Program name
5725-F85	6.6	IBM Virtual Desktop
5725-F85	6.7	IBM Virtual Desktop

Education support

Comprehensive education for IBM Tivoli® products is offered through Worldwide Tivoli Education Delivery Services. A wide range of training options are available, including classes led by instructors, learning on demand, on-site training, and blended learning solutions.

For additional information, visit

<http://www-306.ibm.com/software/tivoli/education/>

Offering Information

Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

Also, visit the Passport Advantage® website

<http://www.ibm.com/software/passportadvantage>

Publications

No publications will be shipped with this product.

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Technical information

Specified operating environment

Hardware and software requirements

Visit

<http://www-01.ibm.com/software/tivoli/solutions/endpoint/virtualdesktop/>

Software requirements

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

Packaging

IBM Virtual Desktop will be distributed via a media package and electronic software distribution (ESD).

IBM Virtual Desktop media package is distributed in one package with the following:

- IBM Virtual Desktop product CDs.
- Soft copy product documentation including readme files are included on the product CDs.

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Software Services

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Licensing metric definitions

Charge metrics definition

Concurrent User is a unit of measure by which the program can be licensed. A Concurrent User is a person who is accessing the program at any particular point in time. Regardless of whether the person is simultaneously accessing the program multiple times, the person counts only as a single Concurrent User. The program may be installed on any number of computers or servers, but licensee must obtain entitlements for the maximum number of Concurrent Users simultaneously accessing the program. Licensee must obtain an entitlement for each simultaneous Concurrent User accessing the program in any manner directly or indirectly (for example: via a multiplexing program, device, or application server) through any means.

Pricing example

A customer wishes to purchase the program for use by 120 of their employees. The 120 employees are scheduled to work during each of three shifts as follows:

- First shift: 40 employees
- Second shift: 40 employees
- Third shift: 40 employees

Forty is the maximum number of Concurrent Users who will need to be logged on during a single shift. In this example, the customer must purchase 40 Concurrent User licenses.

Ordering information

This product is only available via Passport Advantage . It is not available as shrinkwrap.

Licensed function title	Product group	Product category
IBM Virtual Desktop	IBM Endpoint Mgr	IBM Virtual Desktop
Program name	PID number	Charge unit description
IBM Virtual Desktop	5725-F85	Per concurrent User

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

Description	Part number
IBM Virtual Desktop V6.6 for Linux Multilingual Media Pack	AH171ML
IBM Virtual Desktop V6.7 for Linux Multilingual Media Pack	AH172ML

Current licensees

New licensees

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

Basic license

Ordering information for Passport Advantage

Passport Advantage allows you to have a common anniversary date Software Subscription and Support (SW S&S) renewals, which can simplify management and budgeting for eligible new versions and releases (and related technical support) for your covered products. The anniversary date, established at the start of your Passport Advantage Agreement, will remain unchanged while your Passport Advantage Agreement remains in effect. New software purchases will initially include twelve full months of Software Subscription and Support (also referred to as Software Maintenance). Software Subscription and Support in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date. Thereafter, all Software Subscription and Support (Software Maintenance) will renew at the common anniversary date for twelve full months of Software Subscription and Support (Software Maintenance).

Refer to the IBM International Passport Advantage Agreement and to the *IBM Software Support Handbook* for specific terms relating to, and a more complete description of, technical support provided through Software Subscription and Support (Software Maintenance).

The quantity to be specified for the Passport Advantage part numbers in the following table is per required number of Processor Value Units. To order for Passport Advantage , specify the desired part number and quantity.

IBM Virtual Desktop V6.6 - 5725-F85

Description	Part number
IBM Virtual Desktop Concurrent User Annual SW Subscription & Support Renewal	E0DEGLL
IBM Virtual Desktop Concurrent User License + SW Subscription & Support 12 Months	D0NK2LL
IBM Virtual Desktop Concurrent User SW Subscription & Support Reinstatement 12 Months	D0NK3LL
IBM Virtual Desktop Concurrent User Initial Fixed Term License + SW Subscription & Support 12 Months	D0NK1LL
IBM Virtual Desktop Concurrent User Subsequent Fixed Term License + SW Subscription & Support 12 Month	E0DEFLL

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Description	Part number
IBM Virtual Desktop V6.6 for Linux Multilingual Media Pack	AH171ML
IBM Virtual Desktop V6.7 for Linux Multilingual Media Pack	AH172ML

IBM Virtual Desktop is also available, via web download, from Passport Advantage .

The following IPLA software media pack part numbers are being replaced or are obsolete as a result of this announcement. The effective withdrawal date is November 2, 2012.

Orders for these part numbers will not be accepted after the stated effective date of withdrawal, nor will normal marketing activities or educational support be available unless previous agreement exists between the customer and IBM .

Withdrawal of previous Passport Advantage part numbers

Withdrawn from marketing information

Program name/Description	Part number
IBM Virtual Desktop for Smart Business V6.0 Multilingual DVD Media Pack	AH16BML

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License Information form number

L-TBRN-8XKSZD.

The program's License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

Limited warranty applies

Yes

Limited warranty

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Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you

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Other terms

Volume orders (IVO)

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IBM International Passport Advantage Agreement

Passport Advantage applies

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<http://www.ibm.com/software/passportadvantage>

IBM Operational Support Services - SoftwareXcel

No

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

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To learn how Electronic Services can work for you, visit

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Prices

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Passport Advantage

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