

# LWP DOKscan 4.0



**LWP DOKscan grants optimized access for virtualized applications running on virtual desktop infrastructures or application servers to scanners attached to the remote workstation. DOKscan hereby takes special care of the particular requirements of virtual environments and the high data volume acquainted with the processing of image data.**

## **One size doesn't fit all**

Core technologies for the virtual deployment of applications and desktops very often don't provide the possibility to access scanners in a way the complexity and the high volume of image data do require. It is true that USB support, as available for some products, in general enables the centralized application to access the scanner. In most cases those products are not aware that image data needs special treatment. A scanned page (color, 600dpi) may cause raw data volumes of up to 75 MegaBytes, resulting in long delays for data transmission, especially over the WAN, and affecting other users using the same WAN connection. Decreased productivity of nerved users and diminishing acceptance may challenge the solution itself. Also native TWAIN drivers very often are not designed to be executed simultaneously on the same system. This may lead to bad performance or instability.

## **The Solution: LWP DOKscan**

DOKscan was particularly developed for the deployment on Microsoft® Terminalserver Services und Citrix® XenApp and since version 4.0 adopted for the usage on virtual desktops like VMware® View or Citrix® XenDesktop.

## **Optimized TWAIN Driver**

DOKscan provides his own optimized TWAIN driver according to TWAIN-Standard 1.8 for installation on the central server. The driver was selected and carefully adapted with regard to its execution in a multiuser environment. This guarantees the stability and the performance of the centralized system serving many users at once.

## **Up to 93% less bandwidth consumption**

The consistence of image data may vary. Several data structures, file types and algorithms are selectable in the DOKscan console to compress and transmit the scanned image with the quality needed and with as less data volume as possible.

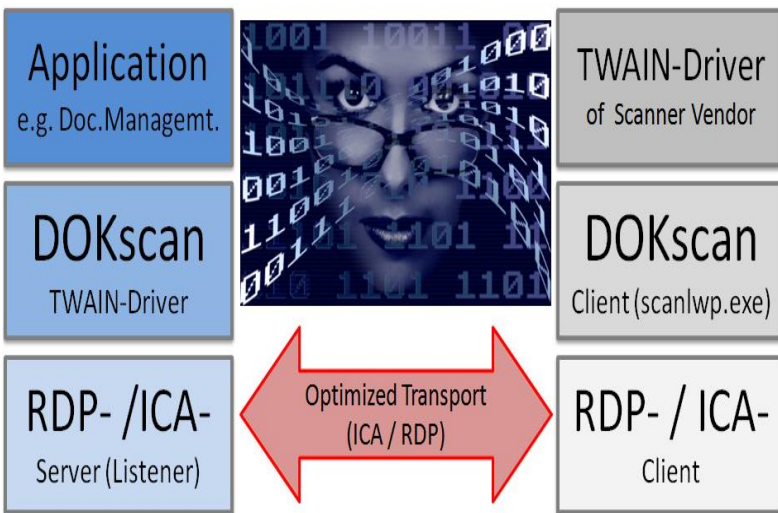
## **A minimum of configuration efforts**

DOKscan uses the transport protocol of the existing session to the application server or the virtual desktop. It is obsolete to configure any further details to establish a connection According to the DOKscan version Citrix® ICA or Microsoft® RDP are available.

## **Centralized Management**

The DOKscan management console can be used to preconfigure parameters of the scan process such as compression algorithm and quality. This feature can be used to enforce the compliance with enterprise policies for image quality in document management systems.

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**DOKscan replaces the native TWAIN driver for the scanner device by its own TWAIN driver which will be installed on the application or VDI server system. The vendor's TWAIN driver has to be deployed on the remote workstation, along with the Citrix® ICA or Microsoft® RDP client and the DOKScan client extension.**

If the virtualized application requests a scan process, DOKscan's TWAIN driver will forward the request via the session protocol (RDP/ICA) and the DOKscan client extension to the native device driver of the scanner provided by its vendor. The driver executes the command and returns the result to the DOKscan client which compresses the image data according to mandatory or optional policies and transmits it the other way around to the DOKscan TWAIN driver on the server. After decompression the image data is passed transparently to the requesting application.

## Supported optimization algorithms

In order to achieve best image qualities with the highest compression ratio possible, DOKscan supports several compression algorithms

- TIFF with G4 compression (black/white)
- JPEG in TIFF
- JPEG2000
- TIFF with LZW-/RLE Support

Depending on the compression algorithms, you may configure the required minimum image quality or the tolerable quality loss as a percentage of the original image quality. Very often loss rates of 1%-2% are not recognized by a human eye but have a significant impact on the data volume that needs transmission.

## Supported virtualization technologies

### Terminal Server Services

- Microsoft® Windows Server 2003
- Microsoft® Windows Server 2008
- Microsoft® Windows Server 2008/R2

### Citrix® Application Server

- Presentation Server 3.x/4.x
- XenApp 5.x/6.x

### Virtual Desktop Infrastructures

- VMware® VIEW
- Citrix® XenDesktop 4.x/5.x

## System requirements on the workstation

### Operating systems

- Microsoft® Windows XP
- Microsoft® Windows XP Embedded
- Microsoft® Windows Vista
- Microsoft® Windows 7

For more information or to request a free test drive please send an e-mail to

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