USER MANUAL

MODEL:

VIA
Integration into DNS and Microsoft Active Directory
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1 Introduction

1.1 Microsoft Active Directory to Logon

Microsoft Active Directory (AD) is the distributed directory service and the information hub of Microsoft Windows Server 2008 and 2012 Server OS (operating system). AD provides critical services such as Windows login, VIA login and also supports a wide range of directory services that support Microsoft applications. One of the most critical network services that the Active Directory uses, is the Domain Name System (DNS). DNS services are provided as part of Microsoft Active Directory and are often deployed on Microsoft domain controllers (DC’s) along with other services, such as print and file sharing.

This paper explains how VIA Collage, VIA Campus and VIA Connect PRO can be implemented into your system and contains a full example installation for integrating VIA in a Windows Server.

The implementation of VIA Collage, Campus or Connect PRO enhances the availability, performance and manageability of your VIA system. Improved logon and easy room names are the main topics.

1.2 DNS Services are Central to VIA Applications

The Domain Name System is the backbone of Active Directory and the principal name resolution mechanism of Windows servers and clients. DNS is used to map host names (e.g., via.berlin or meeting1) to IP addresses (e.g., 192.168.1.39 or 10.10.1.100) and vice-versa, and can also be used to store and retrieve other information about a host, such as which services it provides.
1.3 Benefits with VIA in Your Active Directory and DNS

The following benefits are available after implementing the VIA into your AD/DNS.

1.3.1 DNS Mapped Host Names for your VIA System

VIA systems are ready to use DNS services. Out of the box they have a DHCP IP or are configured to use a static address (192.168.1.39). This IP is always shown on your wallpaper. While integrating the VIA Collage, VIA Campus or VIA Connect PRO into your DNS you can replace this IP with an easy to enter name like: “room1” or “via.berlin”. Also the integrated Web interface is now available for everyone with this name.

1.3.2 Via Login with AD Credentials

The VIA systems are able to read your login credentials and handshake every user with the VIA System.

Every employee can now join the VIA system with the credentials that he/she uses daily and doesn’t have to think about new ones. This makes it more productive, less stressful and comfortable for everyone inside the company.

1.3.3 VIA User / Manager Groups in AD

Decide between the meeting leader and the participant. VIA is capable of handling two groups to give your meeting more structure.

Users are allowed to display themselves immediately after a manager’s confirmation.
2 Installation Requirements

- Windows Server 2008 or 2012 is required for the setup.
- DNS – Domain Name System as central for Microsoft-based and non-Microsoft based devices.
- AD – Microsoft Active Directory as database for Windows and VIA login.

2.1 Windows Server Version

Install or use the already installed version of Windows Server to proceed with the next steps.

This paper does not cover the installation of Windows Server on a machine as an operating system (OS). For more information, consult your IT administrator or supporting company.

2.2 Setting Up DNS and AD in your Server

2.2.1 Changing Adapter Settings

Change your IP settings to make sure your server is running on a static address.

1. Right-click the Network Settings icon and go to your adapter.
2. Select Open Network and Sharing Center.

3. Navigate to **Change adapter settings** on the right side of the new Window.

4. Select your connected adapter and right-click to choose **Properties**.

5. Go to **Internet Protocol Version 4** and click **Properties**.
6. Assign a static address and choose as the pre-selected DNS server address:

![Internet Protocol Version 4 (TCP/IPv4) Properties](image)

7. Confirm your changes by clicking **OK** and close all windows.

**2.2.2 Adding Roles and Features by Wizard (Add DNS and AD)**

1. Click the Server Managers Icon next to the windows icon in the taskbar.
2. The Server Manager now starts.

Initially the Server looks empty.

3. Click Add roles and features.
4. Make sure that the server is updated and has a strong admin password. Click **Next**.

![Add Roles and Features Wizard](image)

5. Choose if you want to install on the local machine, remote machine, virtual machine or an offline HDD. Once selected, click **Next**.
Select installation type

Before You Begin
Installation Type
Server Selection
Features
Confirmation
Results

Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).

- Role-based or feature-based installation
  Configure a single server by adding roles, role services, and features.

- Remote Desktop Services installation
  Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.
6. Select the server upon which to install roles/features and click **Next**.

![Select destination server](image)

7. Select the roles to add. Select:

**Active Directory Domain Services > DNS Server > DHCP Server**

**Note:** After installing and running the DHCP Role you must deactivate any other DHCP service in the same network. If you prefer to use DHCP from a router or firewall, do not install the DHCP server.
8. The Wizard prompts you to add features after clicking on one of the roles. Install them if needed by clicking Add Features.
9. Add features for DHCP:

10. Add features for DNS:
11. After finishing and adding all the Roles and features, click **Next**.
12. Add features like .NET Framework. This example is unchanged:

13. Active Directory Domain Services (AD DS):
14. Dynamic Host Configuration Protocol (DHCP), if added previously:

15. Domain Name System (DNS):
16. Confirm the installation of the selected roles and features. If required, select to restart the Server automatically otherwise you are prompted to restart later.

17. Begin installation. This might take a few minutes.
18. Results:

![Add Roles and Features Wizard](image1)

19. Add your recent Roles to your Taskbar or Start for easy and quick access to all of them.

![Taskbar roles](image2)
3 Configuring DNS & AD

3.1 Prompt DHCP

1. Select from the prompt inside your Server Manager. (This only appears if you selected to install the DHCP server):

2. The install Wizard now opens.
3. Summary and close:
3.2 Configuring Active Directory Domain Services

1. Select this from your Server Manager:

2. The Wizard appears:
3. Select **Add a new forest** as we are not part of one in this example.

4. Choose a name for the domain. If you have a domain name, enter it here (example, google.com):

5. Click **Next** to continue.

6. If you setup Win Server 2012 R2 make sure that all the computers are compatible and if not, you may install older legacy versions.
7. Enter the preferred DSRM password and click **Next**.
8. Since the DNS is not yet specified this error appears. Ignore it and continue by clicking Next. The DNS is added later.

9. If you have legacy equipment, you may need this NetBIOS domain name. It is chosen automatically like your domain name.
10. An active directory is a database. It asks where to store the information. Keep the default settings in this example.

11. Review your settings and confirm by clicking Next.
12. The automatic installation begins and may take a few minutes.

13. The server checks for the needed prerequisites. If there is no red STOP flag, continue since basic errors do not concern us now. Click **Install** to continue:
14. After installing you’re prompted to log off prior to restarting.

15. The server is now basically ready to use.
3.3 Entering a New VIA Host into your DNS

1. Select the zone to enter VIA.

2. Right-click the free area or right-click the zone itself to select **New Host (A or AAAA):**
3. Name your host. Later on, this name appears on the VIA screen.

![New Host](image)

4. Click **OK** to continue after creating the record.

![DNS](image)

5. Go to the Web page of your VIA to implement the data.

6. Select **Manage Gateway Settings**.
7. Login with your credentials or use the Admin access.
   User: su
   Password: supass
   Captcha
8. Navigate to Network Settings:

9. Enter your IP related to the Host record and paste your DNS as well as Gateway.
10. Click **Apply Settings** and move to System Configuration:

11. Change the default address for the room name from 192.168.1.39 to your host record. In this example it is “berlin”.

12. Click **Apply** and confirm your changes.
13. Scroll to the end of the page and click **Reboot**.

14. Your Main display shows the correct room name “berlin” now.
3.4 Adding an Active Directory Login to VIA Collage or Connect PRO

1. Navigate to your active directory on the server.

2. Create a new group for clients to join meetings on the VIA. Right-click Users and create a new Group:

Groups cannot be nested but OUs can.
3. Assign a group name that is easy to identify.

4. Click **OK** to confirm. Repeat for the next group of moderators.
5. When finished, add users to the groups to ensure that each has access to **VIA Collage, Campus** or **Connect PRO**. Double-click the group and go to members.

6. Click **Add** to add members to the group. The following window appears. Enter the name of a user or object inside the AD and click **Check Names**:

7. After checking, the name is written in full text. Add more members or objects to each group to populate with your employees. Click **OK** to finish.
8. Click **Apply** to apply the settings to your group and click **OK** to confirm and close the window.

9. After completing, go to your VIA Web pages. Enter the AD data into the VIA Collage, Campus or Connect PRO.

10. Select **Manage Gateway Settings**.

11. Login with your credentials or use the admin access.

   User: su

   Password: supass

   Captcha
12. Navigate to Authentication:
13. Select Activate Moderator Mode, confirm the popup and choose Active Directory.

14. The side enlarges and you can enter the data to connect your clients and moderators with the VIA Collage, Campus or Connect PRO system.

15. Apply your changes.
   The system now reboots.
16. Change your Host file if needed.

A. On your VIA unit, open the Features menu and click **Settings**.

B. Enter the Super User name and Password, (defaults are **su** and **supass**).
C. On the LAN Settings tab, click **Host Configurator**.

D. Add the IP of your Server, followed by a TAB and the domain name, for example:

   IP<TAB>Domain<TAB>#Description

   192.168.1.1 kramergermany.local #DNS
17. Click **Save** and then reboot after confirming the prompt window.

18. Your login data is now available for **VIA** to use. Every user with an AD account can easily join any meeting on **VIA**.
For a better user experience you can disable the room code. Once disabled, users don’t need visible contact to the screen attached to your VIA.

This guide covers only topics directly related to basic AD/DNS/DHCP setup for VIA. Several more options are available for the specific roles than are discussed in this document. Consult your network administrator or contracted company for deeper information related to this topic.