

MiVoice 5000 Server and MiVoice 5000 Appliance – Redundancy

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1. ABOUT THIS DOCUMENT

1.1 PRESENTATION

Redundancy is a functional security mode based on the use of two servers:

- A main (A) server for nominal operation,
- A secondary (B) server for resuming the operation if the main server fails (resulting in a switchover from A to B).

Only one virtual address must be defined while installing the redundancy which allows the connected devices to communicate with the active machine only.

With two Mitel MiVoice 5000 Appliance, it is possible to deploy the MiVoice 5000 Server with redundancy. This configuration uses the R8.4 and later versions of the MiVoice 5000.

1.2 LINKED DOCUMENTS

Refer to the following documents:

- Mitel 5000 Compact and MiVoice 5000 Appliance – Installation Guide
- MiVoice 5000 Server – Implementation Manual
- MiVoice 5000 Server – Operating Manual
- MiVoice 5000 Server et Cluster Server - Redundancy

2. INSTALLING REDUNDANCY WITH TWO MIVOICE 5000 APPLIANCE

2.1 PREREQUISITES

- A MiVoice 5000 Primary Duplex Appliance, called MiVoice 5000 Appliance A.
- A MiVoice 5000 Secondary Duplex Appliance, called MiVoice 5000 Appliance B.
- 1 license for the MiVoice 5000 Appliance A.
- 1 license for the MiVoice 5000 Appliance B



Note: The license requires an identification number, given with the box.

- Make sure to have the following network information:
 - 1 IP address for the MiVoice 5000 Appliance A
 - 1 IP address for the MiVoice 5000 Appliance B
 - 1 virtual IP address and its mask to access the MiVoice 5000 Server
 - 1 IP address for the gateway

2.2 INSTALLING THE REDUNDANCY

2.2.1 PROCEDURE FOR THE MIVOICE 5000 APPLIANCE A

To install the MiVoice 5000 Appliance A:

- Connect the MiVoice MiVoice 5000 Appliance to the network through the LAN1 port



Note: The LAN1 port is linked to the LANA network card.

- Connect to the IP address 192.168.65.2 via SSH with the following credentials:
 - Default login: root
 - Default password: Mitel5000



Note: Without SSH, the installer can also connect to the MiVoice 5000 Appliance by plugging the MiVoice 5000 Appliance to a PC through the CONSOLE port.

- Enter the command **cd /opt/duplication** to access the directory with the installation file of the MiVoice 5000 Server with redundancy.
- Enter the command **./duplexappliance.sh** to start the installation script of the MiVoice 5000 Server with redundancy.
- Enter the following information:

```
PC Master (1) ou Slave (0) ? []: 1
Master IP Address ? [192.168.65.2]: Enter the new IP address of machine A
Slave IP Address ? [192.168.65.3]: Enter the new IP address of machine B
Virtual IP address ? [192.168.65.1]: Enter the new virtual IP address
Default Gateway ? [192.168.65.254]: Enter the network gateway
IP netmask ? [24]: Enter the new netmask of the virtual IP address
Master Hostname ? [duplexappliance-m]: Enter a name for machine A
Slave Hostname ? [duplexappliance-s]: Enter a name for machine B
Do you want to apply these settings : Yes(1) / No(0) ? : 1
```

At the end of the installation process, the SSH disconnects itself because of the IP change.

The ping is automatically active if the IP address of the default gateway is accessible.



Note: The first installation of the MiVoice 5000 Appliance can only be a LAN redundancy.

To check if the installation goes well:

- Open the command invite on the PC.
- Enter the command ping with the virtual IP address to check if the virtual IP address is accessible.

2.2.2 PROCEDURE FOR THE MIVOICE 5000 APPLIANCE B

To install the MiVoice 5000 Appliance B:

- Connect the MiVoice MiVoice 5000 Appliance to the network through the LAN1 port.



Note: The LAN1 port is linked to the LANA network card.

- Connect to the IP address 192.168.65.2 via SSH with the following credentials:
 - Default login: root
 - Default password: Mitel5000



Note: Without SSH, the installer can also connect to the MiVoice 5000 Appliance by plugging the MiVoice 5000 Appliance to a PC through the CONSOLE port.

- Enter the command **cd /opt/duplication** to access the directory with the installation file of the MiVoice 5000 Server with redundancy.
- Enter the command **./duplexappliance.sh** to start the installation script of the MiVoice 5000 Server with redundancy.
- Enter the following information:

```
PC Master (1) ou Slave (0) ? []: 0
Master IP Address ? [192.168.65.2] : Enter the new IP address of machine A
Slave IP Address ? [192.168.65.3] : Enter the new IP address of machine B
Virtual IP address ? [192.168.65.1] : Enter the new virtual IP address
IP netmask ? [24] : Enter the new netmask of the virtual IP address
Master Hostname ? [duplexappliance-m] : Enter a name for machine A
Slave Hostname ? [duplexappliance-s] : Enter a name for machine B
Do you want to apply these settings : Yes(1) / No(0) ? : 1
```

At the end of the installation process, the SSH disconnects itself because of the IP change.

To check the synchronization state:

- • Connect to the new IP address via SSH with the following credentials:
 - Default login: root
 - Default password: Mitel5000
- Enter the command **drbadm status** to check the current state of the synchronization.



WARNING: After the configuration, Mitel recommends changing the password of the root account of the MiVoice 5000 Appliance.

To change the password of the root account:

- **Login to root**
- **Enter the command passwd to change the password.**

2.3 FIRST CONNEXION TO THE MIVOICE 5000 SERVER

The remaining installation operation should be carried out using the MiVoice 5000 Quick Install, accessible at **http://IP_Address**, where IP_Address is the virtual IP address of the MiVoice 5000 Call Server.

The **New installation** section is displayed by default.

- Fill out the fields of the installation page.

For the **Identification number** field, enter the identification number of the MiVoice 5000 Appliance A.

For more information, refer to the document **MiVoice 5000 Server – Implementation Manual**.

- Click the **Apply** button to start the installation of the MiVoice 5000 Call Server.

After the installation, the tool automatically opens the Web Admin of the MiVoice 5000 Call Server.



Note: If possible, the MiVoice 5000 automatically fetches the license.

If the MiVoice 5000 can't access the license server, the installer must enter the license of the MiVoice 5000 Appliance A manually in the menu



WARNING: After the installation, the installation tool is no longer accessible.

2.4 CONFIGURING THE MIVOICE 5000 APPLIANCE B

The installation page configures the DNS and the license for the MiVoice 5000 Appliance A. The installer must configure the DNS and the license for the MiVoice 5000 Appliance B.

Menu **Telephony service>System>Configuration>Cards>Duple x**

- Click the **Switchover** button to start the manual switch to the MiVoice 5000 Appliance B.

Gestion duplex

Service téléphonie>Système>Configuration>Cartes>Duplex (2.3.4.2)

Menu **Telephony service>System>Configuration>Cards>IP board settings**

- In the **DNS** fields, enter the DNS addresses.

Paramètres IP carte 0-00
Service téléphonie>Système>Configuration>Cartes>Paramètres des cartes IP (2.3.4.3)

Adresse IPV4

Utilisation d'un réseau ADMIN ☐

Adresse DNS 1

Adresse DNS 2

Adresse DNS 3

Port UDP

FQDN

Réseaux locaux additionnels*

(* séparés par des espaces)

Service SIP accessible uniquement au travers de la passerelle internet ☐

Filtre SIP (registers/sec)

Fonction daytime autorisée ☐

IPV6

Menu **Telephony service>System>Info>Licenses**

- Configure the license for the MiVoice 5000 Appliance B.

Licences
Service téléphonie>Système>Info>Licences (2.1.3)

Gestion des licences **Licence de l'esclave**

Numéro d'identification

Adresse IP

Numéro NDI

Code d'installation

Serveur de licences alternatif

[Accès serveur de licences](#)

Obtention clé de déverrouillage

Type de système

Version logicielle

Clé de déverrouillage

Etat de la clé

Licence **Etat**

The system is now operational.