

# Fax Server



Blue Line



IP



ISDN



ISDN PRI

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The corporate fax solution

## The corporate fax solution

Communication by fax is essential to business life. Fax has many major advantages over email. It is well accepted, very reliable and much safer. Most important business communication such as orders and contracts usually is by fax.

## The function of a Fax Server

The traditional fax machine is not so practical anymore for an organisation of more than a few people. The flow of documents to and from a traditional fax machine cannot be controlled, even though it is the most important correspondence of the company. At the same time sending and receiving faxes will cause a lot of walking around. The Fax Servers made by Vidicode are a complete solution for fax communication adapted to the ways people in businesses are used to communicating. Fax Servers are the link between PC's, networks and email within the company and the security and reliability of fax communication with the outside world.

## How a Fax Server works

The Fax Server has two extra functions next to sending and receiving faxes.

The first important function can best be compared with that of the telephone system for telephony: the Fax Server takes care of internal distribution of incoming and outgoing faxes. It allows everyone in the company to send and receive faxes from his workplace, by integration with email and other ways.

The second important function of the Fax Server is the automated archiving. The Fax Server is a database of all faxes ever sent or received. This gives the organisation unparalleled control over its external communication by fax.

- Capacity up to 16 channels
- Complete solution, no other infrastructure needed
- Internal hard disk archives up to 2 million pages
- Unified messaging for fax communication



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## Three ways to access your faxes

The Fax Server will better than ever before take care of access to and the control over your faxes. There are several ways in which you have access to your faxes, all of them highly automated.

### The connection with your email

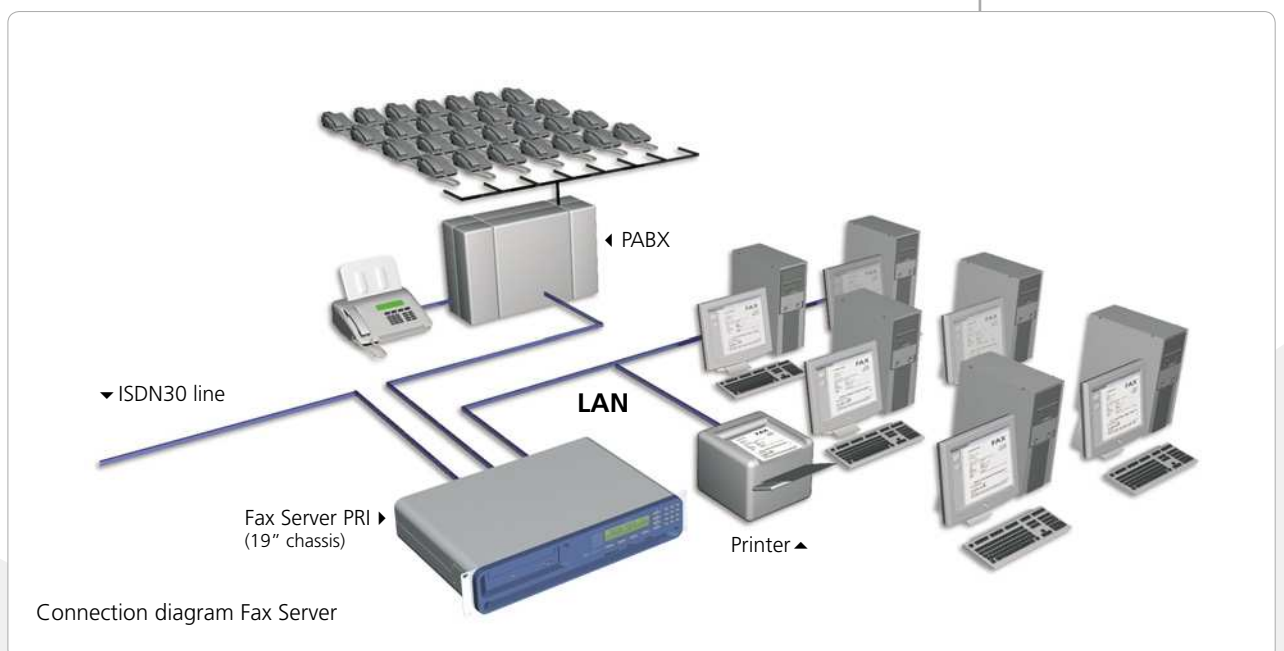
Faxes received on a Fax Server are automatically distributed via email. The principle is that you assign a fax number to every person or department. The Fax Server will connect to the mail server and deliver the faxes to their final destination. There is no limitation to the number of fax numbers that your organisation may have, as far as the Fax Server is concerned this is just a table. Therefore, to have as an example 300 fax numbers on 8 lines or channels would be a typical solution.

### Network access to the Fax Server

The complete collection of faxes sent and received on your Fax Server will remain available for many years until the hard disk becomes full (if this ever happens). The hard disk of the Fax Server operates as an archive storing up to 2 million pages. This means that all faxes of several years will be online available on your LAN. The software that comes with the Fax Server presents the contents of the hard disk as a database. Therefore, a simple query on your PC will within seconds find any fax for you. Access to faxes on the Fax Server is restricted by password and the Fax Server will only present to you the faxes that you are entitled to see. The network access can be used as an alternative to receiving faxes by email. An icon in your taskbar will show when new faxes have come in that you are entitled to read.

### Up to 16 fax lines on one printer

If you like, as with normal fax machines, to print all faxes that come in, then that is the other option. The Fax Server can send all incoming faxes direct to a network printer. When many faxes that come in are printed, a network printer is the best way to get high quality output at the lowest cost for supplies.



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## Special advantages of the Vidicode Fax Servers

Some of the special concepts used in the Fax Servers may seem technical but still deserve to be mentioned because they are of great value to the users:

### *Proof of the origin of received faxes*

The identification of a fax is no proof of origin. It can be changed by anyone using the machine. Calling line identification as available on normal telephone systems is the real evidence of where the fax came from. The facility is always present on digital lines. On analogue lines it must be enabled by the telephone company. In all cases it is of high value to the user of the Fax Server and when available it will always be shown in the database.

### *Optimised control of fax routing*

The idea is that you can control the routing of incoming faxes based on the fax number by just maintaining a list. It has never been so easy to create a fax number for your company. For every fax the email address that the fax was delivered to, will show in the database. While the distribution is automated, the manager can still immediately see who has received what and therefore stays in control. System management can in turn control the authorisation of managers to see faxes of employees or colleagues.

### *Internet technology*

A Fax Server is not a PC, but a system dedicated to nothing else than being a Fax Server. On the network it behaves as a generic FTP-server. The communication to the email server is with the industry standard SMTP protocol. Consequently, there are no special requirements for the network. Installation is so easy and straightforward for every systems manager.

### *Archiving the communication of traditional fax machines (optional) \**

A unique feature of the Fax Servers is the capability to record fax transmissions of traditional fax machines. These recorded fax transmissions can be reproduced on the screen and printed on a printer just like any other archived fax. The application is that in real life employees like to keep a fax machine to send handwritten letters or forms. Because these transmissions are automatically recorded, the archiving remains complete.

### *A CD recorder for back-ups (option)*

Because of the high value of the fax archive, a back-up medium might be required. Therefore an optional CD recorder can be installed. Faxes are automatically archived on CD with a capacity of about 17.500 pages per CD. The Fax Server will send an email to the systems manager when than CD becomes full and has to be replaced. The Fax Server Access System offers an alternative way to create backups on a PC or network server.

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## Several models and capacities

There are several models of Fax Servers made by Vidicode.

- The Fax Server IP for 1 channel on 1 analogue (POTS) telephone line
- The Fax Server ISDN that can be configured for 1 to 8 channels on 1 to 4 EURO ISDN2 lines
- The Fax Server ISDN PRI that can be configured for 1 to 16 channels on a EURO ISDN primary rate line
- The Fax Server T1 that can be configured for 1 to 16 channels on a T1 line as used in the USA

## Unique characteristics of the Fax Servers for ISDN and T1

The Fax Servers for digital telephone lines all have a structure that differs from any comparable system. They all offer an "endpoint mode" and a "pass through mode". The pass through mode means that the Fax Servers can share the line with a telephone system while there is no difference for the telephone system. To the user this means a substantial cost advantage and quality advantage.

The cost advantage is that no installation or configuration with your telephone system or PABX is required. You do not need extra cards in your PABX or extra telephone lines. No one has to come to your office for installation of anything. The Fax Server is connected in between the telephone network and your current telephony infrastructure. Your current equipment cannot see the difference. By typing in the number on the keyboard of the Fax Server you can assign numbers to be your fax numbers. The capacity is dynamically shared between the Fax Server and the telephone system.

The quality advantage is that because the Fax Server is connected directly to the digital telephone network, no information is lost. The caller ID is available in digital format and the line quality is the best possible available for fax transmission.

## Available in two different forms

The models for digital lines (ISDN and T1) are available in two different housings. There is an economical ABS housing for placement on a table or shelf. As an option there is also a high quality 19" chassis that can be placed together with your other telecommunication and network systems in a 19" rack. The models are functionally identical and on the network they are fully compatible.

## Unlimited software license and upgrade potential

The Fax Server comes with an unlimited license for the use of the PC software for Microsoft Windows. Included is the send fax software with access to the MS Outlook address book, coversheet editor and the Fax Server Access System. The license is per channel of the Fax Server and no restriction to the number of users applies. For the systems manager that Fax Server setup utility is provided. In addition, information is provided how to integrate the Fax Server with other applications that want to send faxes. A script for Microsoft Word to send faxes using a mail merge is provided as an example.

The Fax Servers for digital lines can be expanded up to the maximum number of channels available for the platform. The upgrade is by way of an UpgradeCard (IC card). The card must be inserted into the card reader of the Fax Server and then the required number of channels are added.



ABS housing



19" chassis

# Product range overview



Product	Description	Available options
Fax Server IP analogue	<ul style="list-style-type: none"> <li>• For 1 analogue telephone line</li> <li>• Capacity of 1- or 2 million pages</li> </ul>	<ul style="list-style-type: none"> <li>- Double capacity harddisk</li> <li>- Fax Recording</li> </ul>
Fax Server ISDN 2	<ul style="list-style-type: none"> <li>• Fax Server for 2 ISDN basic rate lines</li> <li>• 1 to 4 channels</li> <li>• Capacity of 1- or 2 million pages</li> </ul>	<ul style="list-style-type: none"> <li>- Extra channel (max. 4)</li> <li>- Double capacity harddisk</li> <li>- Fax Recording</li> <li>- CD Recorder</li> <li>- 19" Chassis</li> </ul>
Fax Server ISDN 4	<ul style="list-style-type: none"> <li>• Fax Server for 4 ISDN basic rate lines</li> <li>• 1 to 8 channels</li> <li>• Capacity of 1- or 2 million pages</li> </ul>	<ul style="list-style-type: none"> <li>- Extra channel (max. 8)</li> <li>- Double capacity harddisk</li> <li>- Fax Recording</li> <li>- CD Recorder</li> <li>- 19" Chassis</li> </ul>
Fax Server ISDN PRI	<ul style="list-style-type: none"> <li>• Fax Server for ISDN PRI (E1) line or T1 line</li> <li>• 1 to 16 channels</li> <li>• Capacity of 1- or 2 million pages</li> </ul>	<ul style="list-style-type: none"> <li>- Extra channel (max. 16)</li> <li>- Double capacity harddisk</li> <li>- Fax Recording</li> <li>- CD Recorder</li> <li>- T1 adapter (1 for endpoint mode, 2 for pass through mode)</li> <li>- 19" Chassis</li> </ul>

# Technical specifications



Power supply	
IP analogue	Adapter with input 220-240 or 110 Volt (USA) 47 – 63 Hz AC, Output 7,5 Volt AC
ISDN ISDN PRI	Adapter with input 100-240 Volt 47 – 63 Hz AC, Output 10 Volt DC max. 2A
ISDN in 19" chassis ISDN PRI in 19" chassis	Input 100-240 Volt 47 – 63 Hz from mains

Working environment	
Ambient temperature	0° to 40°C
Humidity	10%-90% (Non Condensing)

Connections		Type
1	All models	MiniDIN 9 pin serial RS232 max. 115.200bps
1	IP analogue	ethernet 10-BASE-T RJ45 UTP
2	ISDN ISDN PRI	ethernet 10-BASE-T / 100-BASE-T RJ45 UTP
3	IP analogue	2 x RJ12 – analogue line (POTS) in and out
4	ISDN 2	2 x RJ45 with 2 x adapter - So in and out
5	ISDN 4	4 x RJ45 with 4 x adapter - So in and out
6	ISDN PRI	2 x RJ45 – E1 in and out
7	ISDN ISDN PRI	microphone stereo / dual mono input 20Mv at 10KΩ / mini-jack 3,5mm
8	ISDN ISDN PRI	loudspeaker mono output 0,1Watt at 16Ω / mini-jack 3,5mm

Compression method
Modified Huffman 1D/2D

Modulation method	bits/sec
V.17	14400 / 12000 / 9600 / 7200
V.29	9600 / 7200 / 4800
V.27 ter	4800 / 2400

Dimensions (L/W/H) and Weight	
IP analogue	22,5 x 18 x 8 cm 1.0 kg
ISDN and ISDN PRI	26 x 19 x 5,5cm 1.2 kg
ISDN and ISDN PRI in 19" chassis	19" x 12,5" x 3,5" 6.5 kg

Technical standards	
EU Telecommunication	TBR21 (analogue), TBR3 (ISDN), TBR4 (ISDN PRI)
EU safety	EN60950:2000
EU Emission	EN55022:1998+A1+A2
EU Immunity	EN55024:1998+A1+A2

Operating systems	
Send Fax	Microsoft Windows 98SE / 2000 / XP
Fax Server Access System	Microsoft Windows 98SE / 2000 / XP
Fax Server Setup software	Microsoft Windows 98SE / 2000 / XP

Included in delivery
Mains Supply
Manual
Complete kit of cables for normal installation
Software on CD
User license for unlimited number of users

\* Recognition of fax traffic is limited to ordinary G3 fax traffic and cannot be guaranteed under all circumstances.



**vidicode**

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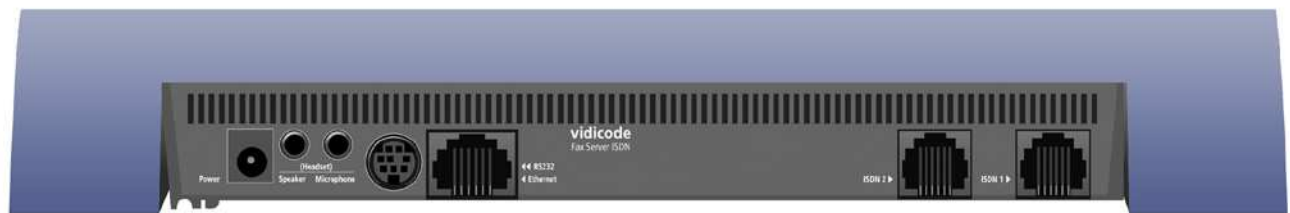
# Connections



## ● IP



## ● ISDN



## ● PRI



## 19" chassis (Option for ISDN / 2, ISDN / 4, ISDN PRI)

