

VoIP en ADSL in een: de FRITZ!Box



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Onderwerpen

- ADSL
- VoIP
- Configuratie ADSL op de fritzbox
- Configuratie telefonie en VoIP met de fritzbox
- De concurrentie

ADSL

- Asymmetric Digital Subscriber Line
 - Dataverkeer over telefoonkoper (hogere frequenties dan het telefoongesprek)
 - Asymetrisch: meer download dan upload
 - Splitter telefonie/adsl
 - Tot 20mbit/1mbit aangeboden in Nederland (ADSL2+)

Annex A, Annex B

- Annex A in combinatie met analoge telefoonlijn
- Annex B in combinatie met ISDN
- Duitse situatie: altijd Annex B

VoIP

- Voice over Internet Protocol (telefonie)
- Mogelijk om via andere telefoonaanbieders te bellen
- Gevoelig voor jitter, echo en tekort aan bandbreedte

ADSL setup

- Veel opties, zal in Nederland prima werken

Connection

Select whether your Internet connection should be established via DSL or LAN.

Internet connection via DSL
Select this kind of connection if FRITZ!Box is to connect directly using your DSL line.

Internet connection via LAN 1
Select this kind of connection if FRITZ!Box is to be connected to an already existing network (LAN), a cable modem or a DSL router.

Operating Mode

Use one Internet connection for all computers (router)
All connected network devices share one connection to the Internet

Use FRITZ!Box as a DSL modem
Each connected computer establishes its own Internet connection using its own access software

Account Information

Specify whether account information such as a 'User name' and 'Password' is required for Internet access.

Account information required (PPPoE/PPPoA connection)

No account information required (in accordance with RFC 1483 / RFC 2684)

Connection Settings

User name	<input type="text"/>
Password	<input type="password"/>
Password confirmation	<input type="password"/>

Geavanceerde ADSL setup

Use Traffic Shaping
Traffic shaping optimizes DSL transmission and makes it possible to take advantage of full DSL speed even when data are being downloaded and uploaded simultaneously.

Traffic Shaping requires data about the speed of your DSL line:

Set the speeds of the DSL line automatically
 Set the speeds of the DSL line manually

Upstream kbit/s
Downstream kbit/s

DSL ATM Settings

Please note that manual settings are required only in special cases. Your DSL provider can tell you which values are required.

Detect all ATM settings automatically
 Define ATM settings manually

VPI
VCI

Encapsulation PPPoE
 PPPoA/LLC
 PPPoA/VC-Mux

- Traffic shaping: verstandig voor VoIP
- ATM settings

Telefonie setup

- ISDN?

ISDN Terminal Devices

Overview Fixed-Line Numbers Internal Numbers Features

ISDN terminal devices without an MSN assigned conduct outgoing calls using the main phone number and react to all incoming calls.

Main phone number
Fixed-line network: 01402000

You can assign your ISDN terminal devices the MSNs listed below. Please see the documentation of your ISDN terminal device for further details.

Existing numbers

Internet:	0858770918
Internet:	01401072
Fixed-line network:	01402000
Fixed-line network:	01402001

Apply Cancel Help

Telefonie setup

- Keuze buitenlijn:
ISDN of analoog

The screenshot shows a configuration window titled "ISDN Terminal Devices" with four tabs: "Overview", "Fixed-Line Numbers", "Internal Numbers", and "Features". The "Fixed-Line Numbers" tab is active. Under the heading "Line Type", there is a prompt "Select the type of your fixed line:" followed by two radio button options: "ISDN line" (which is selected) and "analog line". Below this, there is a section "Enter your ISDN numbers here:" containing two columns of ten input fields each, numbered 1 through 10. The first two fields in the first column contain the numbers "01402000" and "01402001". At the bottom of the window are three buttons: "Apply", "Cancel", and "Help".




Telefonie setup

- Analoge toestellen

Extensions

Overview Fixed-Line Numbers

Specify here which numbers the connected analog telephones should respond to.

Number	Description	Number of the extension	
1	Fon 1	Fixed-line network: 01402000	
2	Fon 2	Fixed-line network: 01402001	
3	Fon 3	Internet: 01401072	

Help

VoIP setup: aanbieders

- Maximaal 10 aanbieders

Internet Telephony

Internet Numbers | Advanced Settings | Voice Transmission

Here you can add new Internet numbers and edit account information.

Enabled	Internet number	Provider	Selection
<input type="checkbox"/>	0858770918	sip.xs4all.nl	*121#
<input checked="" type="checkbox"/>	01401072	pbx.idefix.net	*122#

VoIP setup: aanbieder

- Instellingen per aanbieder

Internet Number

Enter here the account information you received from your Internet telephony provider.

Use Internet number

Internet number

Account information supplied by your Internet telephony provider:

User name

Password

Password confirmation

Registrar

Proxy server

STUN server

Use Internet number for registration

Enter your area code

Area code

Adapt telephone number format

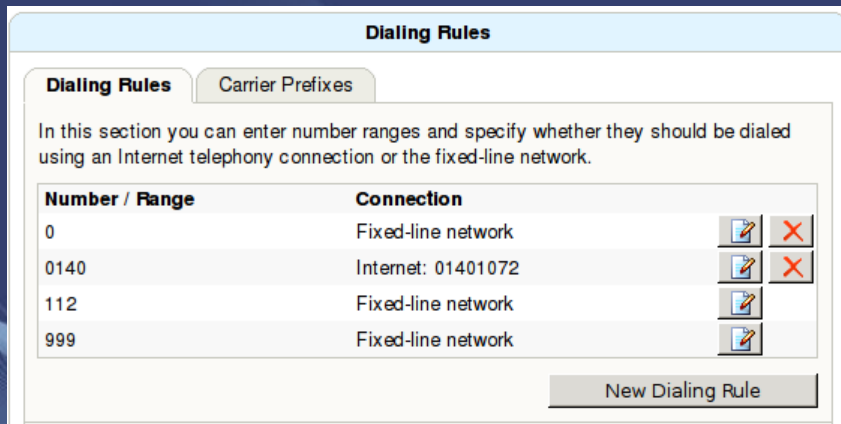
Precede the number dialed with these prefix numerals

00 31 0

VoIP provider with North American Number Plan (NANP)
(international prefix 011 instead of 00)

VoIP setup: belregels

- Veel mogelijkheden
- Standaard alarmnummers ingesteld



Demo

- Naar Collectors' Net
 - 0149 61 31194 speaking clock
 - 0149 1 349 9981 taliban hq on the phone...

De concurrentie

- ADSL modem + WIFI ap + voip adapter
- Speedtouch
- Zyxel
- Draytek