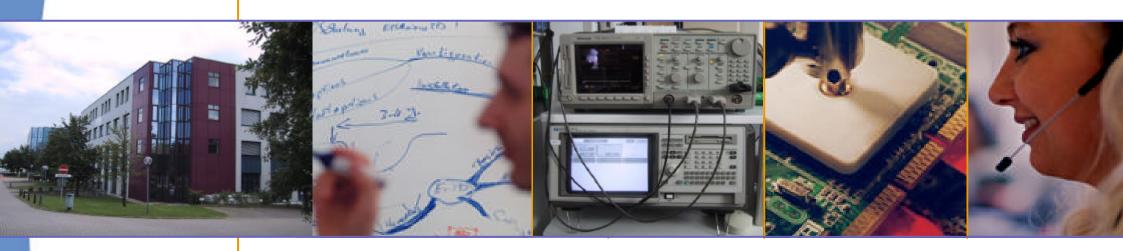
Connecting your Business



LANCOM Firmware Version 3.10 July 2003

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Firmware Version 3.10

On the following pages we would like to give an overview of the new features and enhancements of this new LANCOM Software.

Release notes of previous versions can be found in the documentation area on the LANCOM CD.

- ► Supported
 LANCOM models: 800,
 1000, 1100, 2000,
 DSL/10, DSL/I-10,
 DSL/1610, DSL/I1611, 821, 1621, 4000
 Series, 6000 Series,
 Wireless L-11/IL-11,
 7011 VPN
- Also for ELSA LANCOM and Telekom T-Octopus LAN R800, T-Octopus LAN R1600 VPN



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- ► Dynamic DNS
- ► DSL over LAN
- ► Quality of Service
- ► Scheduled Events
- ► Other Highlights

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Dynamic DNS

Dynamic DNS applications

- ► Remote Management
- ► VPNs with dynamic IP Addresses

What is ,Dynamic DNS'?

Dynamic DNS- (,Domain Name Service') services address issues arising from dynamic IP addresses, which are typically used by most standard broadband lines.

With such lines, a new IP address is assigned...

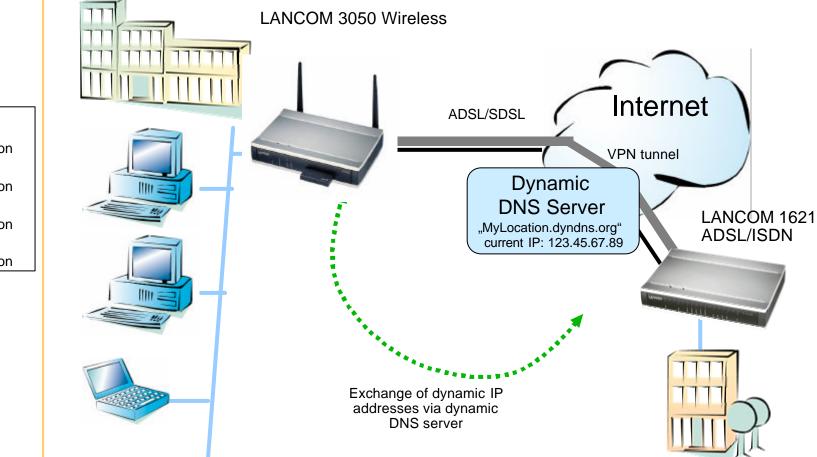
- ► Each new dial-in
- ► With flat rate tariffs typ. each 24 h

The following applications based on known IP addresses are enabled (besides other methods such as e.g. ISDN) by Dynamic DNS services then:

- ► Remote Management
- ► VPN network couplings and VPN remote access

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Dynamic DNS



VPN

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Dynamic DNS Highlights (1)

Ease of use means

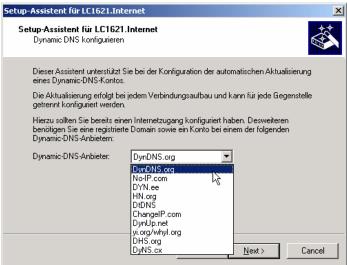
- Tailored input sets for well-known Dynamic DNS provider
- Skripts to update the current IP address
- ► Takes care of refreshcontraints such as minimum update interval (e.g. 5 minutes) and maximal inactivity period (e.g. 28 days)
- Can be adopted for other dynamic DNS provider

New LANconfig Dynamic DNS Wizard

Dynamic DNS functions can be set up easily with the new LANconfig setup assistant.

A multitude of well-known Dynamic DNS provider is supported directly with preset configurations.





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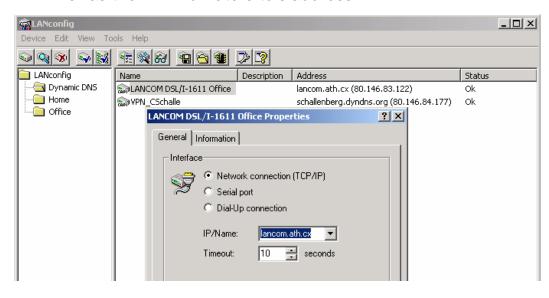
Dynamic DNS Highlights (2)

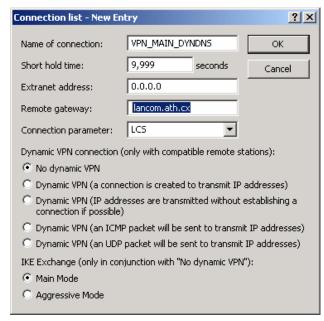
Highlights

- Enter a static, DNSresolvable name instead of a static IP address
- Enables secure VPN Main Mode connections just if you were using static IPs
- ▶ Besides IP address updates, execute any LANCOM command line command listed in the new ,Action table' when a connection is being established or cut

DNS-resolvable names instead of static IP addresses

You can enter a DNS-resolvable name at many places where previously only a fixed IP address was accepted. For example, the device's address in *LANconfig* and *LANmonitor* can be entered this way, as well as the *VPN remote site*'s address.





Further connection-state-oriented actions can be entered in LANconfig's new, Action table' under "Communication / General"

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Dynamic DNS vs. Dynamic VPN

LANCOM Dynamic VPN

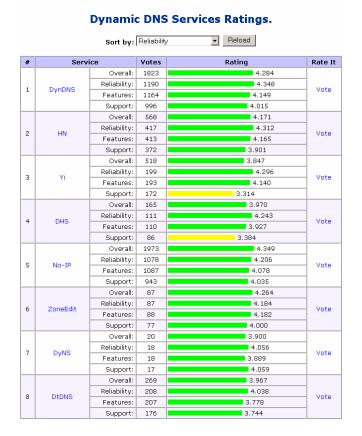
- Exchange current IP address via ISDN
- Free of charge when using ISDN D chanel
- Works even without flat rate tariffs
- Extreme reliable low cost VPNs thanks to ISDN
- "State of the Art" LANCOM against LANCOM only

Dynamic DNS constraints

- VPN depends on 3rd party web server availability
- Contract and annual costs for professional users

LANCOM Dynamic DNS

- Integrated Dynamic DNS client
- VPN remote site as DNS-resolvable name
- ► For mobile users with VPN client and locations without ISDN

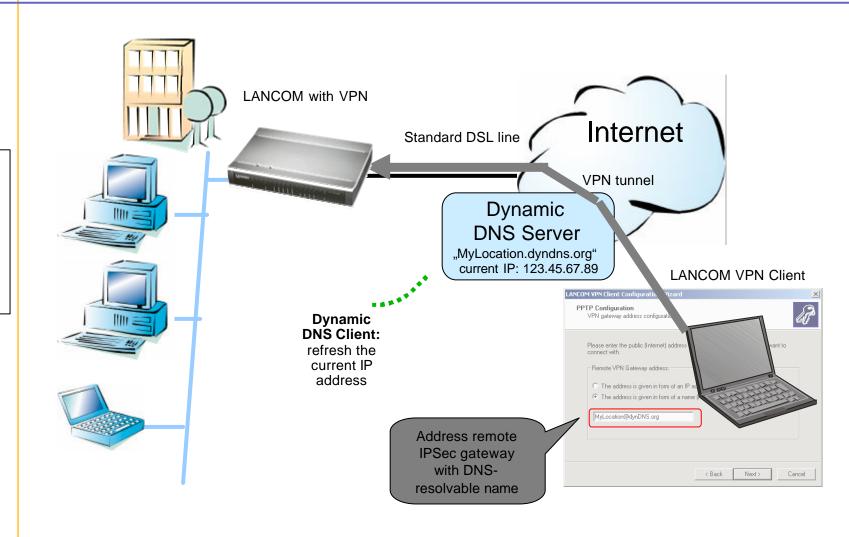


Source: www.KVTek.com

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Dynamic DNS application example:

Mobile GPRS Intranet access via VPN



DSL

connection

VPN

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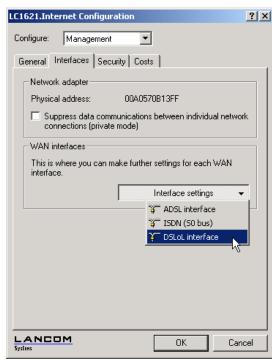
"DSL over LAN" (DSLoL)

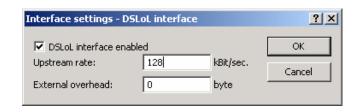
Supported hardware

- LANCOM ADSL Series: use with integrated Switch
- ► LANCOM L-xx Wireless and IL-xx Wireless with external Switch

Extended possibilities

You would like to upgrade your device with an integrated ADSL modem to SDSL? You would like to upgrade your LANCOM L-11 Wireless to being a Router for the wired LAN and a Access Point for the Wireless LAN as well? Starting with release 3.10, you will find a new "DSLoL" interface – simply plug in and make it happen!





DSLoL Interface in LANconfig under "Management / Interfaces"

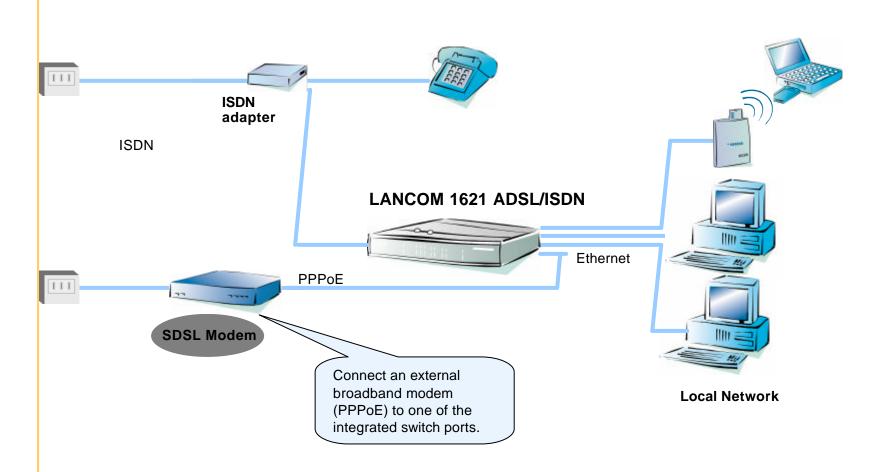
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DSLoL with LANCOM ADSL Series (1/2)

Features

- "DSL over LAN": Connect an external broadband modem or router
- Ideally suited for customers demanding more upstream bandwith by SDSL
- LANCOM 821
 ADSL/ISDN and LANCOM 1621

 ADSL/ISDN

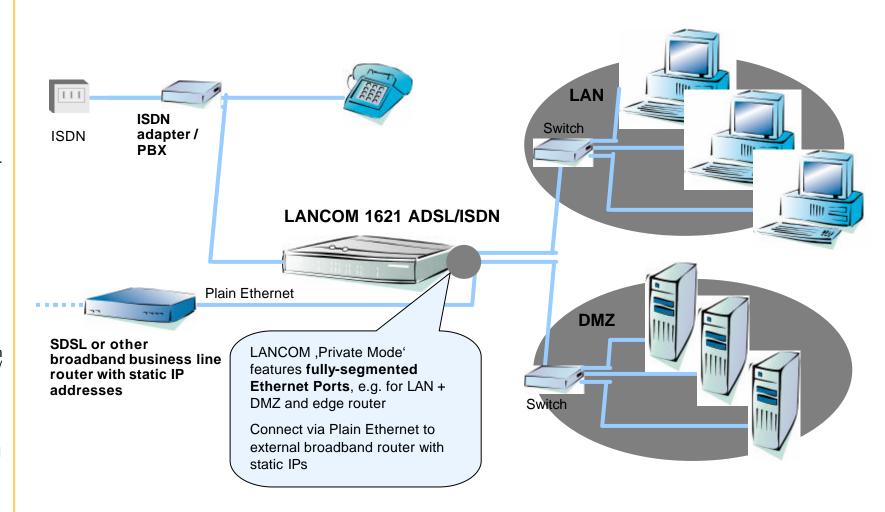


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DSLoL with LANCOM ADSL Series (2/2)

Features

- "DSL over LAN" maximal functionality together with "Private Mode"
- Ideally suited for VPN customers demanding mor upstream bandwidth
- Local private IP addresses in LAN, multiple public (static) IP addresses in DMZ
- Incl. IP QoS with Traffic Shaping / Limiting for balanced server accesses
- LANCOM 821
 ADSL/ISDN und
 LANCOM 1621
 ADS/ISDN

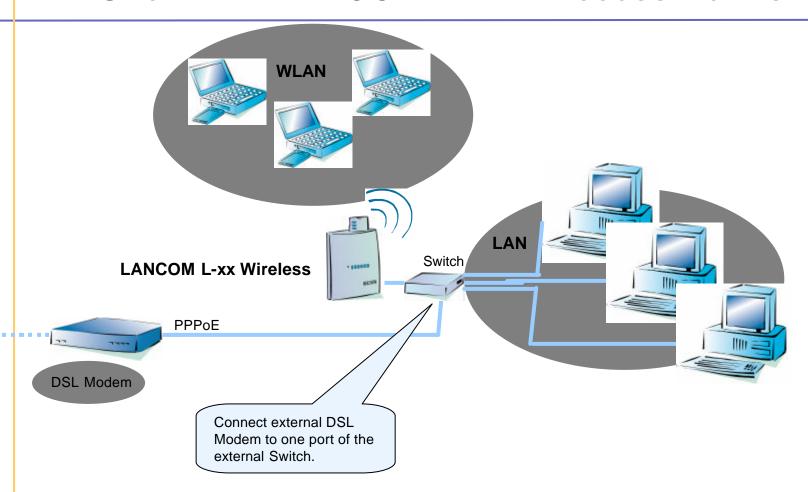


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DSLoL with LANCOM WLAN Access Points

Features

- Used to be either LAN Router or WLAN Access-Point
- Now: complete solution for LAN (Router) and WLAN (Access Point)
- LANCOM L2, IL-2, L-11, IL-11 and L-54



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Quality of Service

Applications

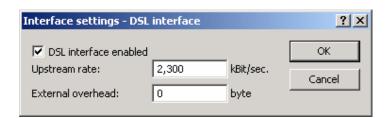
- Cost-efficient VolP coupling over DSL/VPN
- Priority for missioncritical applications
- ▶ Video conferending over DSL

QoS also for Ethernet interfaces

All Ethernet WAN interfaces provide now an adjustable upstream speed for the LANCOM Quality of Service functions*.

Here you enter the transmission speed of your line (e.g. 2300 kBpps with SDSL, or typ. 128-256 kBps with ADSL). The Firewall's QoS rules can now prioritize according packets within this bandwidth, for example for Voice over IP applications.

The *LANCOM* sends datagrams according to their priority at precisely determined time slots, so that an external modem uplink will never get overloaded ("time slot scheduler").



Adjustable upstream speed for Ethernet interfaces in LANconfig under "Management / Interfaces / DSL".

*) This function was previously implicitly available for devices with integrated ADSL modem only.

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Scheduled Events

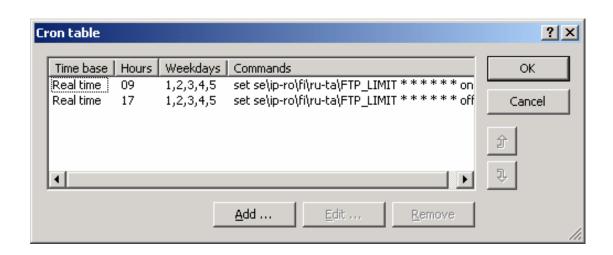
Applications

- Scheduled connections or disconnections at predefined times
- ► Time-controlled access rights
- ► Time-controlled bandwidth limitations
- Supports the entire LANCOM command line feature set

Time-controlled actions

The CRON table enables to execute certain actions at certain times. All *LANCOM* command line commands can be entered as execution actions.

For example, one can schedule firewall or bandwith limitations, automatic establishment of connections at predefined times, e.g. weekdays or at certain hours.



CRON table: In LANconfig under "Date & Time / General"

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Other Highlights (1/2)

LANCOM VPN Client and NetBIOS (Windows Networking)

Beginning with Version 3.10, LANCOM VPN Client features detailed settings for Windows networks. Access to shared files or printers can be set individually (depending on the operation system).

Enhanced ADSL linecode

Devices with integrated ADSL modems got an updated linecode for ADSL over ISDN connections (Annex B). This results in an enhanced signal to noise ratio, which is valuable under certain critical line conditions.

Adjustable Wireless LAN transmission power

The radio transmission power can be set manually for devices with integrated 54 Mbps radio cards. This enables operation of high-gain narrow-beam antennas, which would deliver too high gains beyond regulatory conformance themselves. With manual transmission power control, the effectively radiated power can exactly be set to the maximum allowed. Since this manual reduction affects the transmitted power solely, the entire antenna or booster gain is still available for the receive direction. Thus maximum radio link lengths can be achieved. Another application would be the local restriction of Wireless LANs.

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Other Highlights (2/2)

More flexible Firewall rules

All Firewall rules are separately switchable now, and can be prioritized manually. This supports you when setting up complex Firewall rule sets.

The whole amendment record can be found in the files belonging to the individual firmwares:

"Readme.txt" resp. "Liesmich.txt"

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Service and Support

We wish you all the best with your new LANCOM product!

We'd be happy to receive your feedback – either positive or negative, as well as feature suggestions via email to info@lancom.de.

Please find actual support information on our Internet support site, or in the enclosed support leaflet.

In case your were not able to resolve your questions by reading our manuals, please contact your local distributor for further assistance.

Your LANCOM Systems Team.

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Systems