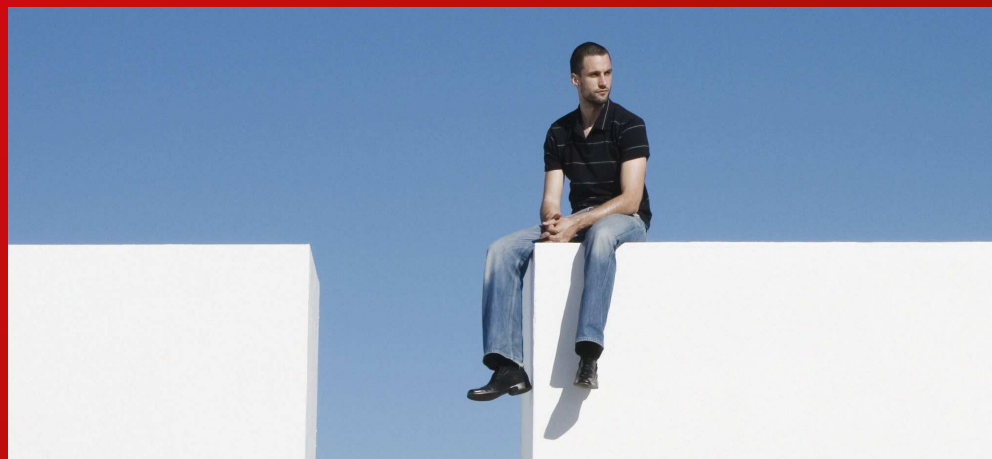


Intra2net

Intra2net Technical Data



Intra2net Software
Intra2net Hardware
Compatible Products

www.intra2net.com

Intra2net Technical Data

Intra2net AG

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Further information can be found online at <https://www.intra2net.com>

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Valid for Intra2net software version 6.4.16

Valid for Intra2net Groupware Client Version 4.0.0

1. Chapter - Software

1.1. Operating System

- The Intra2net system uses its own RPM-based Linux distribution as an operating system. It has been specifically adapted and toughened for safety.
- The Intra2net system requires stand-alone x86 hardware or a virtualized environment.
- The Linux kernel is regularly updated. The currently used version can be found by clicking the link below.
- 32-bit Linux is used. The PAE mode automatically utilizes up to 16 GB of memory. Multiple processors, cores and hyperthreading are used automatically (SMP and SMT).
- The hard drive is divided into multiple partitions: system, log files, spool area, swap, rescue system and data (emails, backup, proxy cache). The journaling file system ext4 is used. This ensures data integrity even in the event of power failure.
- Intra2net regularly releases updates (security updates and new functionality). The system downloads these cryptographically signed updates directly from Intra2net over the Internet.

1.2. System Services

The system services used are listed below. The version of the services used in the current Intra2net software can be found in the download area for the open source packages under

<https://www.intra2net.com/en/developer/intra2net/>

1.2.1. Network

Firewall	iptables
VPN (IPSec)	strongswan
Nameserver	bind

1.2.2. Email

Mailer-Daemon	postfix
Email-Scanning	amavisd-new
Spamfilter	spamassassin
Mailserver (POP and IMAP)	cyrus-imapd
Virusscanner	SAVAPI SDK
Email Retrieval	fetchmail
Mailinglists	mlmmj
SMTP-Blocking (DNSBL)	postfwd2
Webmail	Horde and IMP

Web-Groupware	Horde, Turba, Nag, Mnemo and Kronolith with storage backend for Kolab-XML
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1.2.3. Proxy

Proxyserver	squid
URL-Blocklists	squidguard
Web-Content Filter	dansguardian
Proxy-Antivirus	mod_fsav (Self-development)
Virusscanner	SAVAPI SDK

1.2.4. Other

Webserver (Interface)	apache
Faxserver	hylafax with capi4hylafax

1.2.5. System

UPS Monitoring	networkupstools (nut)
Time Adjustment	openntp
SSH	openssh
Access to backup and mail archive	samba
Local surveillance service	mon
Remote Monitoring	net-snmp

2. Chapter - Compatible Products

The following is a list of a number of programs with which we can explicitly confirm their compatibility.

The Intra2net system consistently follows open Internet standards (RFCs). Therefore, all programs that also comply with these standards should usually be compatible. There are also many compatible systems that are not listed here. Our sales department will gladly help to determine the compatibility of other systems.

2.1. Network

VPN-Clients	<ul style="list-style-type: none"> • NCP Secure Entry Client for Windows and Mac OS • NCP Secure Android Client Premium • Apple iPhone and iPad • Shrew Soft VPN Client for Windows • Android version 4 or higher • Mac OS X with IP Securitas
VPN-Router	<ul style="list-style-type: none"> • Zyxel ZyWALL USG • Lancom Router with IPSec VPN

2.2. Email

Client (IMAP direct)	<ul style="list-style-type: none"> • Microsoft Outlook up to incl. 2010 (higher versions just with the Intra2net Groupware Client) • Mozilla Thunderbird • Microsoft Outlook Express • Microsoft Windows Live Mail • Apple iPhone and iPad
Server (SMTP forwarding, recipient address verification)	<ul style="list-style-type: none"> • Microsoft Exchange 2007, 2010, 2013 and 2016 • IBM Lotus Domino
Archiving	<ul style="list-style-type: none"> • MailStore Server

2.3. Intra2net Groupware Client

Operating System	<ul style="list-style-type: none"> • Microsoft Windows 10 (32 and 64 Bit with Intel x86-Platform)
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	<ul style="list-style-type: none"> • Microsoft Windows Server 2012 R2 (64 Bit) • Microsoft Windows 8 / 8.1 (32 and 64 Bit with Intel x86-Platform) • Microsoft Windows Server 2012 R2 (64 Bit) • Microsoft Windows 7 (32 and 64 Bit) • Microsoft Windows Server 2008 (32 and 64 Bit) <p>Operation in terminal server environments is possible.</p>
Microsoft Outlook	<ul style="list-style-type: none"> • Microsoft Outlook 2019 • Microsoft Outlook 2016 • Microsoft Outlook 2013 • Microsoft Outlook 2010 • Microsoft Outlook 2007 (SP1 and later) <p>32- and 64-bit versions of Outlook are supported.</p>

2.4. Fax

Receiving	<ul style="list-style-type: none"> • Email program with any PDF viewer
Sending	<ul style="list-style-type: none"> • YajHFC Java Fax Client • SWT HylaFAX-Client Light, Standard, Professional, Terminal Server • WHFC

3. Chapter - Hardware

3.1. Intra2net Appliance Eco

The Intra2net Appliance Eco hardware is composed of standardized, high quality components and is produced according to ISO 9001:

- Intel J1900 Processor (Baytrail-D), 4x 2 GHz
- 1x 4 GB DDR3L SDRAM
- Mini-ITX Motherboard, incl. Graphics and 2x onboard Gigabit network cards
- Additional 2x Gigabit Ethernet network cards, PCIe
- 1x SATA-Hard Drive 1 TB, 7200 RPM
- High-quality, temperature-controlled case fan with a MTBF of more than 100,000 hours
- Case fan fitted with dust filter; safe operation at ambient temperatures of up to 35°C
- 12V DC/internal DC converter, external power supply, max. 60W, 100-240 VAC, 50/60 Hz
- Power consumption of 16 W (average operation)
- Case prepared for rack mounting; 1.5 units; mounting kit included
- Dimensions 320 x 65 x 200 mm (WxHxD); weight 4.0 kg (net, incl. power supply unit, without packaging or accessories)

3.2. Intra2net Appliance Pro

The Intra2net Appliance pro hardware is composed of standardized, high quality components and is produced according to ISO 9001:

- Intel Pentium G4400, 2x 3,3GHz, Socket 1151
- 1x 8 GB DDR4 SDRAM
- Micro-ATX mainboard (major-brand) incl. Graphics and onboard Gigabit network card
- 3x Gigabit PCIe network cards, low-profile
- ISDN card AVM Fritz! PCI (Low-Profile, optional)
- 2x SATA-Hard Drive, 1 TB each, 7200 RPM
- Hard Drives mirrored using RAID1
- High-quality, temperature-controlled CPU, power supply unit and case fans with a MTBF of more than 60,000 hours
- Case fan fitted with dust filter; safe operation at ambient temperatures of up to 35°C
- ATX power supply, max. 350W, 100-240 VAC, 50/60 Hz, 80Plus Bronze certified

- Power consumption of 33 W (average operation)
- Case prepared for rack mounting; two units; mounting kit included
- Dimensions 441 x 89 x 319 mm (WxHxD); Weight 9.0 kg (net, without packaging and accessories)

3.3. Intra2net Appliance Ultimate

For these systems, Hewlett Packard Enterprise's well proven ProLiant DL20 series 1U rack servers are used. Further details on the equipment can be found on the HPE website or by contacting our sales department.

3.4. Intra2net Software

Intra2net recommends installing the Intra2net software on Intra2net appliances, certified complete devices or virtualization systems. In this case, long-term tests are carried out to ensure full functionality now and for future versions.

A list of certified products can be found at <https://www.intra2net.com/de/support/server-systeme.php>.

A list of certified virtualization systems can be found at <https://www.intra2net.com/de/support/virtuelle-server.php>.

Should the Intra2net software be installed on another system, the following minimum requirements apply:

- Mainboard with Intel, AMD, Nvidia or VIA chipset
- BIOS supporting the boot modes "Legacy BIOS" or "Compatibility Support Module" (CSM)
- CPU from Intel or AMD with at least 2 GHz
- Minimum 2 GB RAM for the Intra2net Business Server, and 1 GB for Intra2net Security Gateway and Intra2net Network Security
- Hard Drive with at least 40 GB of space, PATA or SATA controller on the Motherboard (for other controllers see link below)
- 2 network cards from Intel, Realtek or Broadcom
- For fax and ISDN dial-in: AVM Fritz! PCI ISDN card or Draytek miniVigor 128 USB ISDN adapter

Please refer to our compatibility list at <https://www.intra2net.com/de/support/komponenten.php>.