Owl

The „night eagle" has always been a symbol of wisdom, insight and intuition. The owl watches from above, and thanks to its astuteness, it hunts even at night with unsurpassed accuracy and precision. The owl teaches the feeling of the right time and how to achieve a lot with little effort. It has complete control over its habitat, making it the perfect symbol for our networking products.

NETWORK

DIVUS HEARTBEAT is a hardware-software solution comprised of a PoE + enabled managed switch and an innovative manager.

Integrated into the network, DIVUS HEARTBEAT is the heart of the Smart Building. It ensures a stable and secure connection between the connected DIVUS devices in a secure area. Third-party building automation products are also compatible and can be integrated into the secure area.

DIVUS HEARTBEAT offers new features both the system integrator and the end user will benefit from:

- DIVUS HEARTBEAT saves time
- DIVUS HEARTBEAT saves money
- DIVUS HEARTBEAT saves nerves
- DIVUS HEARTBEAT speeds up troubleshooting
- DIVUS HEARTBEAT gives security

DIVUS HEARTBEAT

Keep it under control

DIVUS HEARTBEAT grants you a STABLE, SAFE and CONTROLLED network.

An innovative manager combined with a POE + enabled managed switch takes control of your network. The manager reviews and controls all activity in their network and seals it to the outside. That is why DIVUS HEARTBEAT is at the heart of the Smart Building. It ensures a stable and secure link between the connected DIVUS devices in a secure area.

The benefits of the HEARTBEAT are undeniable and indispensable for modern building automation:

DIVUS HEARTBEAT SAVES TIME: the work of electricians and system integrators is made easier, as the installation of the network is much easier and less complicated.

DIVUS HEARTBEAT SAVES MONEY: the processes of the installation are accelerated – and time is money, as we all know.

DIVUS HEARTBEAT SAVES NERVES: every electrician can handle this system, as he is guided step by step through the "easy" navigation.

DIVUS HEARTBEAT ACCELERATES TROUBLESHOOTING: In addition, HEARTBEAT offers the installer the ability to find and fix any errors in his network immediately and without tedious search – troubleshooting and problem solving are thus becoming child's play, wrong configurations are a thing of the past.

DIVUS HEARTBEAT GIVES SECURITY: dà un senso di sicurezza senza precedenti, poiché HEARTBEAT rende le reti per la smart home sicure contro l'accesso esterno.
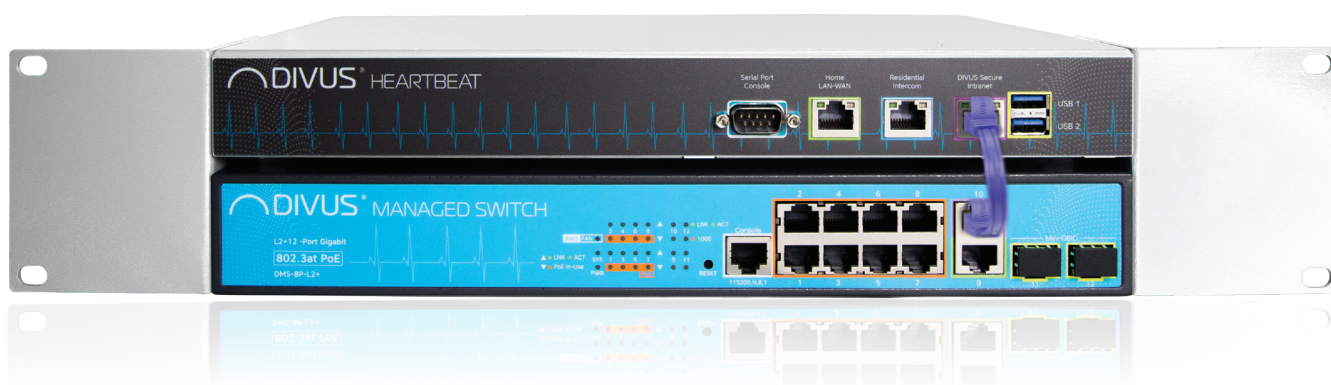
Quick and easy installation & configuration	Security & Stability of the Network	Projct security
Static scan & system diagnostic	Real-time Monitoring	Automatically generated system reports
Longevity	Absolute control	Firewall protected building automation

A first-of-its-kind solution for a STABLE, SECURE and CONTROLLED network!

Comprehensive protection for the network

THE SAFETY OF A BUILDING NETWORK HAS TOP PRIORITY

Securing smart homes is becoming more and more important. Especially when sensitive security functions, such as alarm system, access control, etc. are controlled via apps, the risk of security gaps increases and the system is more susceptible to attacks. So far, these risks of the flexibility have been reduced only at the cost of the stability and complexity.

Finally, thanks to DIVUS HEARTBEAT, comprehensive protection and full security can be guaranteed. Important components for building automation, which belong to a secured building network, can be connected to DIVUS HEARTBEAT and be controlled.

DIVUS HEARTBEAT divides the building network into different segments. For building automation, a completely secured „DIVUS SECURE NET"

is created; a protected intranet, in which the various devices operate without interruption and can not be attacked from the outside.

Also, the intercom system, in which internal and external devices interact, is protected by a firewall via its own port and is therefore completely safe while still offering unrestricted functionality.

Other network devices that are not part of the secure network and/or building automation system should be connected to the usual LAN network and independently secured.

MANAGED SWITCH – UNCOMPLICATED AND EFFORTLESS

The correct setting of the integrated managed switch is very simple. Therefore the installation and the managing is intuitive and works smoothly with DIVUS HEARTBEAT.

NEW

DIVUS HEARTBEAT Manager now without a switch

He takes over as bevore the task to minitor secured networks. It's designed to keep small smart home installations secure, stable and easy to manage.

DIVUS
SECURE
NETWORK

FIREWALL PROTECTED

DIVUS HEARTBEAT

Simple and successful installation

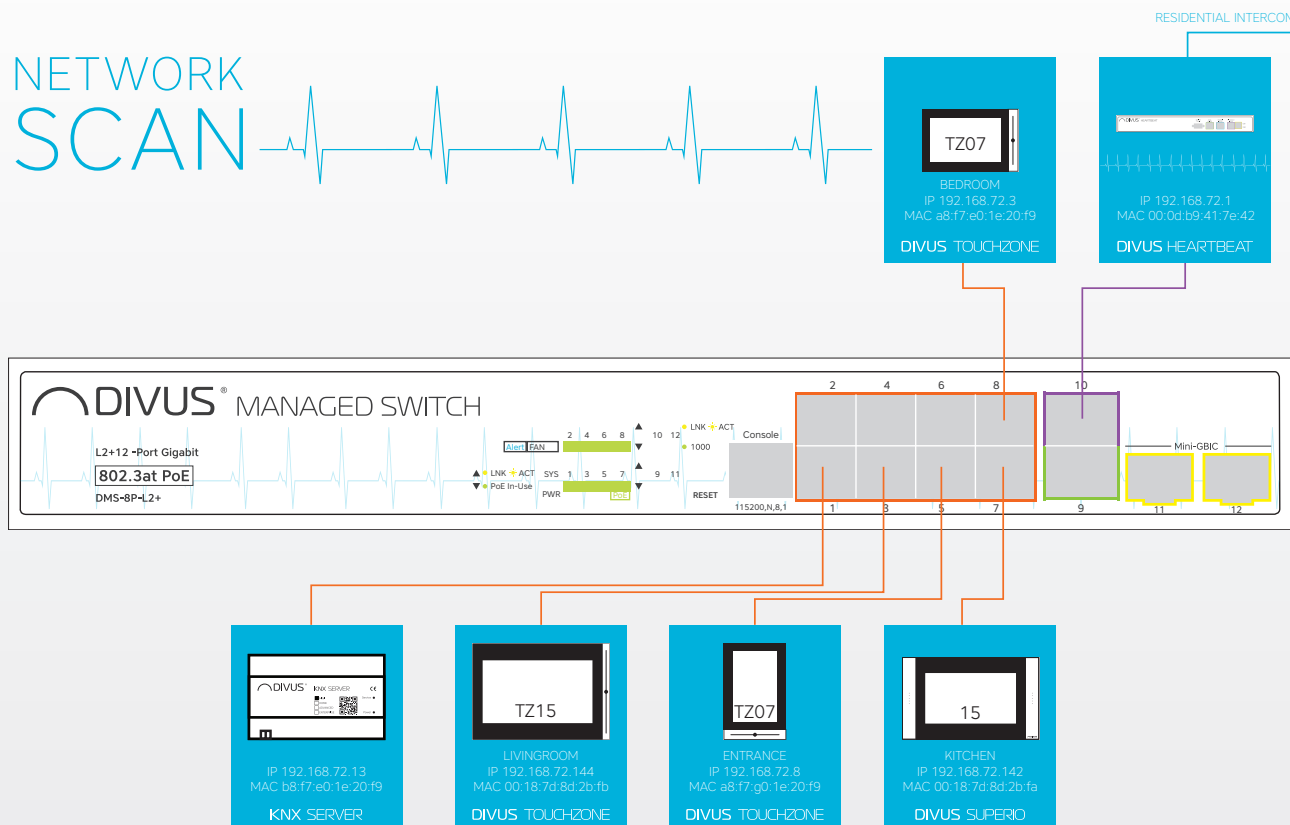### Easy and und intuitive installation of the Building Automation System

The cleverness of the system already becomes visible during the installation process. The intuitive system-wide configuration guides the user through the installation process. Only basic knowledge is needed for the setup of the network.

Networked DIVUS devices are automatically detected and listed with name, IP and Mac address and any error messages. These errors can be adapted immediately in order to have a secure error-free and stable network. Data from third-party products can be retrieved according to the manufacturer's specifications.

Exact control and traceability

As soon as all devices of the building automation system haven been connected with DIVUS HEARTBEAT on site, a scan can be performed. This will show whether the project has been installed exactly as it was planned and if it is reproduced correctly.

After completion, the actual state of the intact building automation system and its connected devices can be recorded in a report. Subsequent changes to the network, also caused by third parties, can be tracked and reversed at any time, if necessary.

NETWORK
SCAN

RESIDENTIAL INTERCOM

TZ07
BEDROOM
IP 192.168.72.3
MAC a8:f7:e0:1e:20:f9
DIVUS TOUCHZONE

IP 192.168.72.1
MAC 00:0d:b9:41:7e:42
DIVUS HEARTBEAT

DIVUS® MANAGED SWITCH

L2+12 -Port Gigabit
802.3at PoE
DMS-8P-L2+

IP 192.168.72.13
MAC b8:f7:e0:1e:20:f9
KNX SERVER

TZ15
LIVINGROOM
IP 192.168.72.144
MAC 00:18:7d:8d:2b:fb
DIVUS TOUCHZONE

TZ07
ENTRANCE
IP 192.168.72.8
MAC a8:f7:g0:1e:20:f9
DIVUS TOUCHZONE

15
KITCHEN
IP 192.168.72.142
MAC 00:18:7d:8d:2b:fa
DIVUS SUPERIO

FOUND DEVICES

DEVICES		NAME	PORT	IP	MAC	ERRORS	LOGGING
DIVUS HEARTBEAT	⌄	DIVUS SYSTEM MANAGER	10	192.168.72.1	00:0d:b9:41:7e:42		link
TOUCHZONE 15	⌄	DIVUS TZ Living Room 15"	1	192.168.72.144	00:18:7d:8d:2b:fb		link
TOUCHZONE 7	⌄	DIVUS TZ Kitchen 7"	2	192.168.72.3	a8:f7:e0:1e:20:f9		link
SUPERIO 15"	⌄	DIVUS SUPERIO Bedroom 15"	3	192.168.72.142	00:18:7d:8d:2b:fa		link
KNX SERVER	⌄	DIVUS KNX SERVER	4	192.168.72.13	b8:f7:e0:1e:20:f9		link
TOUCHZONE 15	⌄	DIVUS TZ Living Room 15"	5	192.168.72.144	00:18:7d:8d:2b:fb		link
TOUCHZONE 7	⌄	DIVUS TZ Kitchen 7"	6	192.168.72.3	a8:f7:e0:1e:20:f9		link
SUPERIO 15"	⌄	DIVUS SUPERIO Bedroom 15"	7	192.168.72.142	00:18:7d:8d:2b:fa		link
DIVUS CIRCLE	⌄	Intercom Main door	8	192.168.72.1	00:0d:b9:41:7e:42		link
DIVUS CIRCLE S	⌄	Back entrance	9	192.168.72.144	00:18:7d:8d:2b:fb		link

(Left vertical label: DIVUS SWITCH 1)

Immediate overview thanks to the system scan

DIVUS HEARTBEAT enables a complex system scan including cable diagnostics, loop detection and a precise visualization of the entire network system. Thereby the most important information about the devices on the network, such as serial number, firmware version, IP address, etc. including possible error messages are displayed in a list. Duplicate IP addresses, loops or connection conflicts can be recognized and assigned at a glance.

At any time a scan can be performed and sent automatically as a PDF report to the installers e-mail address.

Since DIVUS HEARTBEAT automatically scans all relevant data of the installation and compiles it in a handy report, no further notes need to be taken during and after the installation process. In case of an expansion of the building automation system, the installer can check which ports are still free in the report emailed to him from DIVUS HEARTBEAT and do the planning from his office.

„Thanks to DIVUS HEARTBEAT, the network is finally stable and secure!"

TROUBLE-SHOOTING SUPPORT IS MADE EASIER AND LESS TIME-CONSUMING

Do a new scan to detect possible issues of individual network components, which can possibly be solved by the installer himself. Otherwise, the technical support of DIVUS can be contacted with a simple click on the web interface and a scan report with all relevant details will be sent. A precise error message will not only save precious time to find the solution, but will also greatly reduce the time spent on the phone for online-interactions.

Everything under control at a glance

Security in the network has the highest priority

DIVUS HEARTBEAT

Secure & stable building Network

DIVUS SECURE NETWORK

A stable and protected connection between the connected DIVUS devices in a secured segment. 3rd-party products for building automation are compatible, as well, and can be integrated in the secure network segment.

Other network devices, that are not part of the secure network and/or building automation system should be connected to the usual LAN network and independently secured.

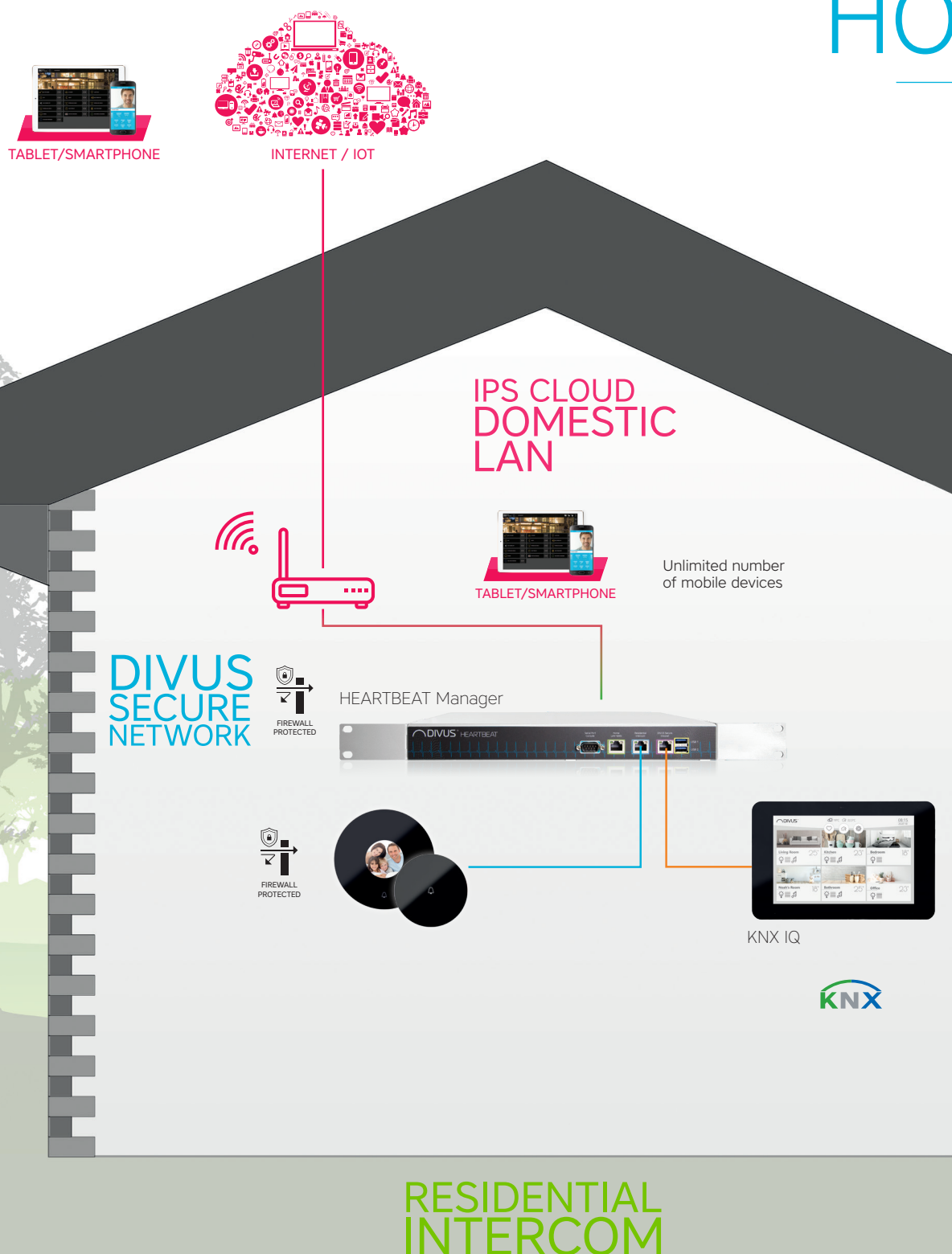## IPS CLOUD DOMESTIC LAN/WAN

RESIDENTIAL INTERCOM

The intercom system, in which internal and external devices interact, is protected by a firewall via its own port and is therefore completely safe while still offering an unrestricted functionality.

TABLET/SMARTPHONE

INTERNET / IOT

IPS CLOUD
DOMESTIC
LAN

TABLET/SMARTPHONE

Unlimited number
of mobile devices

DIVUS
SECURE
NETWORK

FIREWALL
PROTECTED

HEARTBEAT Manager

DIVUS HEARTBEAT

FIREWALL
PROTECTED

KNX IQ

KNX

RESIDENTIAL
INTERCOM

DIVUS HEARTBEAT controls your entire network. To have a secure and stable network all devices of your building automation system should be connected to the DIVUS HEARTBEAT.
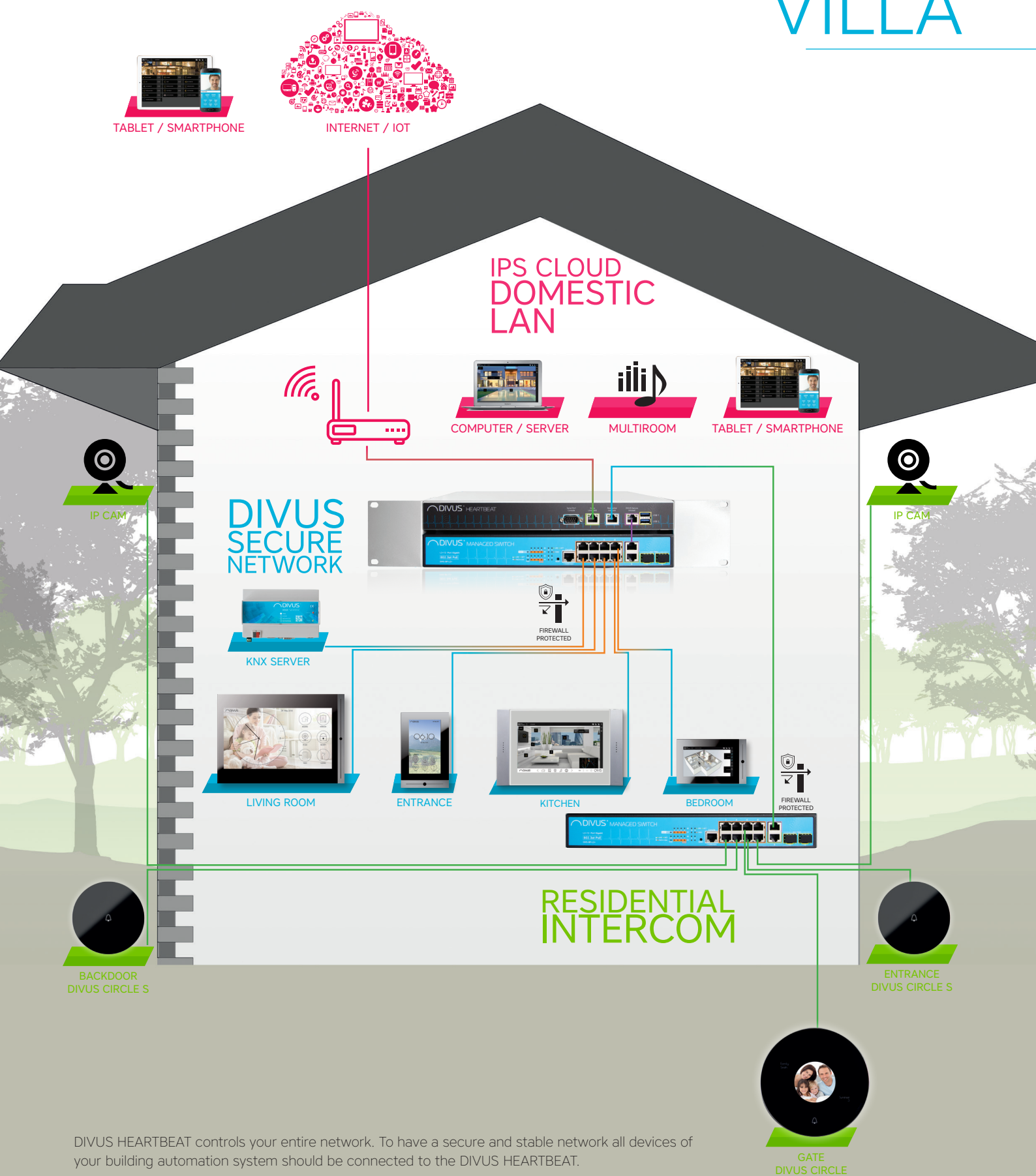
DIVUS HEARTBEAT

Advanced Apartment Villa

ADVANCED
APARTMENT
VILLA

TABLET / SMARTPHONE

INTERNET / IOT

IPS CLOUD
DOMESTIC
LAN

COMPUTER / SERVER

MULTIROOM

TABLET / SMARTPHONE

IP CAM

IP CAM

DIVUS
SECURE
NETWORK

FIREWALL
PROTECTED

KNX SERVER

LIVING ROOM

ENTRANCE

KITCHEN

BEDROOM

FIREWALL
PROTECTED

RESIDENTIAL
INTERCOM

BACKDOOR
DIVUS CIRCLE S

ENTRANCE
DIVUS CIRCLE S

GATE
DIVUS CIRCLE

DIVUS HEARTBEAT controls your entire network. To have a secure and stable network all devices of
your building automation system should be connected to the DIVUS HEARTBEAT.

DIVUS HEARTBEAT

Simple Residential 2-4 Apartments

DIVUS HEARTBEAT controls your entire network. To have a secure and stable network all devices of your building auto-mation system should be connected to the DIVUS HEARTBEAT.

SIMPLE
RESIDENTIAL
2-4 APARTMENTS

IPS CLOUD DOMESTIC LAN

COMPUTER / SERVER
MULTIROOM
TABLET / SMARTPHONE
INTERNET / IOT
TABLET / SMARTPHONE

KNX SERVER
LIVINGROOM
ENTRANCE

FIREWALL PROTECTED

DIVUS SECURE NETWORK

Apartment 1*

APARTMENT ENTRANCE CIRCLE SMALL

IPS CLOUD DOMESTIC LAN

COMPUTER / SERVER
MULTIROOM
TABLET / SMARTPHONE
INTERNET / IOT
TABLET / SMARTPHONE

KNX SERVER
LIVINGROOM
ENTRANCE

FIREWALL PROTECTED

DIVUS SECURE NETWORK

Apartment 2

APARTMENT ENTRANCE CIRCLE SMALL

Apartment 3
Entrance Apartment 3

Apartment 4
Entrance Apartment 4

RESIDENTIAL INTERCOM

FIREWALL PROTECTED

DIVUS HEARTBEAT is used as a VoIP server

MAIN ENTRANCE DIVUS CIRCLE

* Optional SIMPLE HOME solution for apartment (page 73)

DIVUS HEARTBEAT

Advanced Residential Tower

DIVUS HEARTBEAT controls your entire network. To have a secure and stable network all devices of your building automation system should be connected to the DIVUS HEARTBEAT.

* The DIVUS Managed Switch is not mandatory in this case, another professional switch can also be used
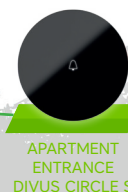
** Optional SIMPLE HOME solution for apartment (page 73)

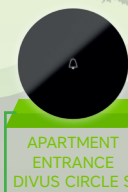# ADVANCED RESIDENTIAL TOWER

IPS CLOUD DOMESTIC LAN/WAN

COMPUTER / SERVER

MULTIROOM

TABLET / SMARTPHONE

INTERNET / IOT

TABLET / SMARTPHONE

FIREWALL PROTECTED

KNX SERVER

LIVING ROOM

ENTRANCE

FIREWALL PROTECTED

DIVUS SECURE NETWORK

Apartment 1*

APARTMENT ENTRANCE DIVUS CIRCLE S

IPS CLOUD DOMESTIC LAN/WAN

COMPUTER / SERVER

MULTIROOM

TABLET / SMARTPHONE

INTERNET / IOT

TABLET / SMARTPHONE

FIREWALL PROTECTED

KNX SERVER

LIVING ROOM

ENTRANCE

FIREWALL PROTECTED

DIVUS SECURE NETWORK

Apartment x

APARTMENT ENTRANCE DIVUS CIRCLE S

RESIDENTIAL INTERCOM

switch 1*

switch x*

...

Apartment 2
entrance Apartment 2
Apartment 3
entrance Apartment 3
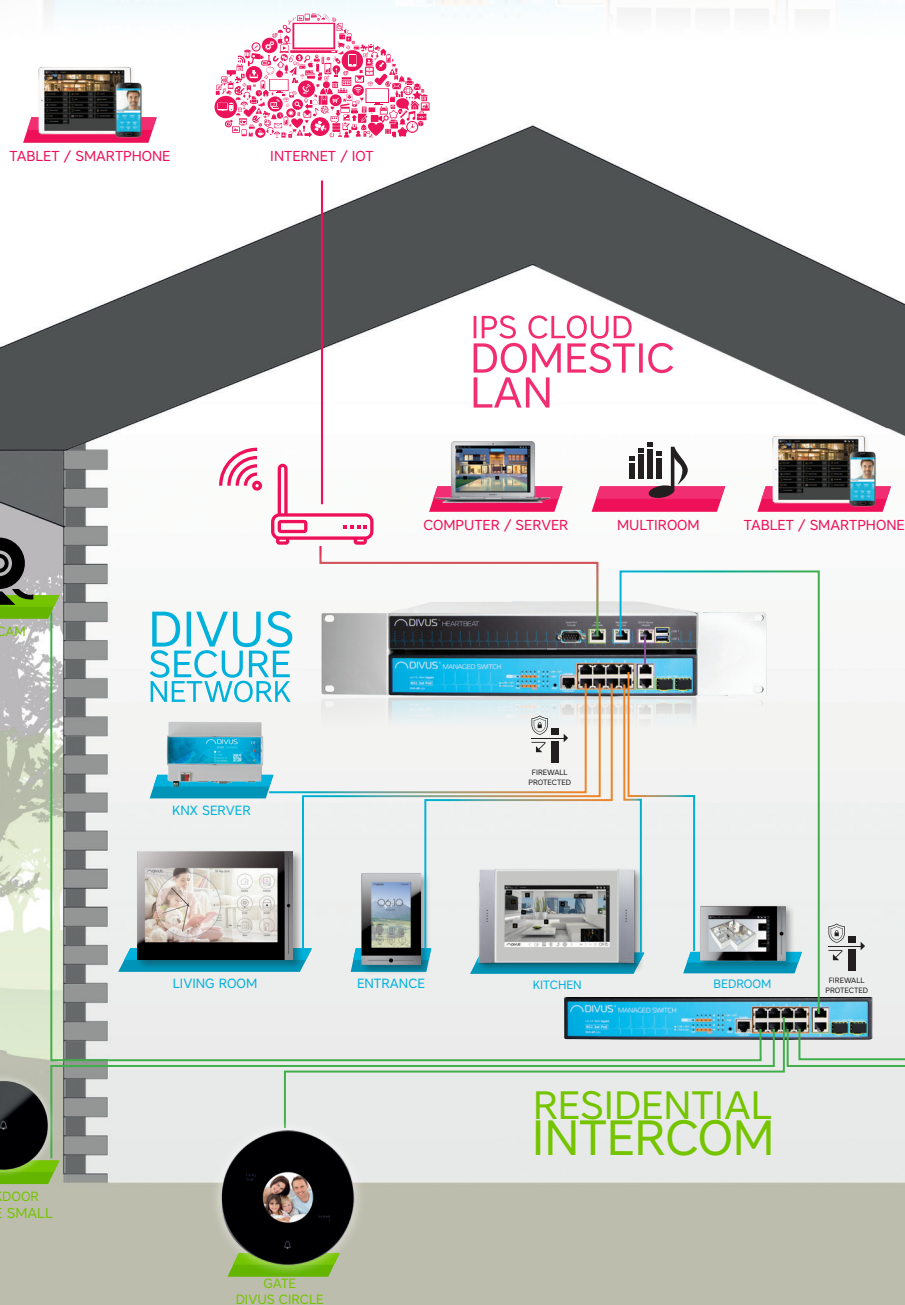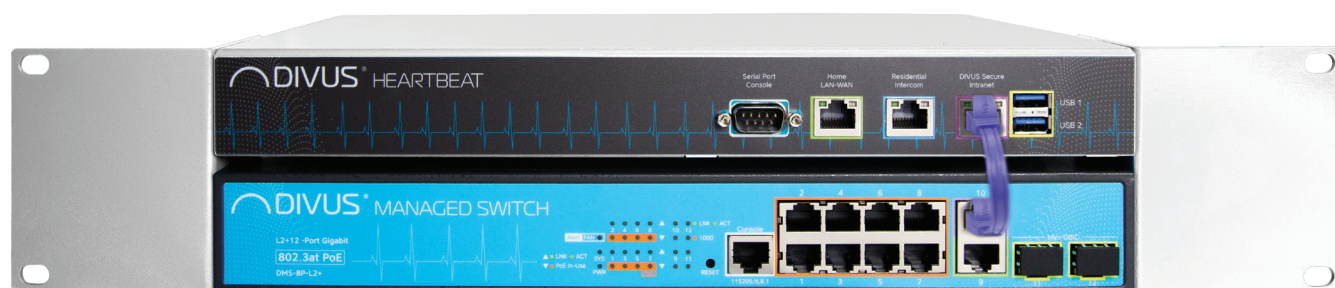
DIVUS HEARTBEAT used as residential voip server

CONCIERGE

IP CAM

MAIN ENTRANCE DIVUS CIRCLE

* Optional SIMPLE HOME solution for apartment (page 73)

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DIVUS HEARTBEAT

Network

TABLET / SMARTPHONE

INTERNET / IOT

IPS CLOUD
DOMESTIC LAN

COMPUTER / SERVER

MULTIROOM

TABLET / SMARTPHONE

IP CAM

IP CAM

DIVUS SECURE NETWORK

FIREWALL PROTECTED

KNX SERVER

LIVING ROOM

ENTRANCE

KITCHEN

BEDROOM

FIREWALL PROTECTED

RESIDENTIAL INTERCOM

BACKDOOR
CIRCLE SMALL

GATE
DIVUS CIRCLE

ENTRANCE
CIRCLE SMALL

Technical specifications

Product	DIVUS HEARTBEAT	DIVUS HEARTBEAT MANAGER
Article no	DHB	DHB - MANAGER
Description	• Hardware-software solution composed of a POE + capable managed • 8 port-switch and an innovative manager. • Integrated into the network, it is the heart of a smart building and ensures a secure and stable connection between DIVUS devices. Features: • VoIP server; VoIP call logging; • Managing of multiple switches; • Firewall protection of Home LAN and DIVUS SECURE NET; • Firewal protection of external residential network to Home LAN and DIVUS SECURE NET; • Network scan Generate network report; • Sending network report by email; • Network diagram; • Network logging; • Network diagnostic; • Loop protection; • DIVUS device control; • DIVUS device manage; • DIVUS device configuration; DIVUS device logging; • DHCP server to DIVUS SECURE INTRANET; NTP Server	DIVUS HEARTBEAT Manager - hardware-software solution for network management. As the heart of a building automation project, DIVUS HEARTBEAT provides security and stability and makes both network setup and maintenance quick and easy. Features: • Integrated VoIP server; VoIP call logging; • Three pre-configured and physically separated networks: DIVUS HOME, SECURE and INTERCOM; • Firewall protection of the HOME and SECURE networks from the outdoor INTERCOM network; • DHCP and NTP server to SECURE intranet; • Automated email reports; • Network scan and diagnostics software with report generation; • Automatic generation of network topology diagrams; • Advanced information gathering from connected DIVUS devices; • Remote DIVUS support

Product	DIVUS MANAGED SWITCH
Article no	DMS-8P-L2plus
Description	POE + capable managed 8 port-switch to be used as extension to DIVUS HEARTBEAT

Simple and fast Installation & Configuration	Security & Stability in the network	Project security
Status scan & system diagnostics	Real-time monitoring	Automatically created system Reports
Longevity	Absolute control	Firewall protected house installation