∩DIVUS ®
Show it. Control it.

Q
QUICK START GUIDE

Package contents

- Quick Start Guide
- DIVUS MANAGER: DMANAGER
- DIVUS MANAGED SWITCH: DMS-8P-L2+
- Mounting Adapter - set
- 2x Power cable
- Adapter RJ45 on DB9
- Patch cable (purple)

DIVUS HEARTBEAT   EN

Quick Start Guide

Version 0117

COMMISIONING

MOUNTING

1. Install DIVUS HEARTBEAT on a 19-inch rack frame with the appropriate adapter provided. Note that the DIVUS MANAGER is mounted on top and the DIVUS MANAGED SWITCH at the bottom. The adapters must be mounted according to their inscription.

INSTALLATION & POWER CONNECTION

Make the following connections to DIVUS HEARTBEAT:

2. Connect the 2 devices using the provided purple patch cable: DIVUS MANAGER - DIVUS SECURE INTRANET port (purple) to DIVUS MANAGED SWITCH - port 10 (purple).

3. Connect power cable to devices (100-240VAC 420W maximum power consumption at full load).
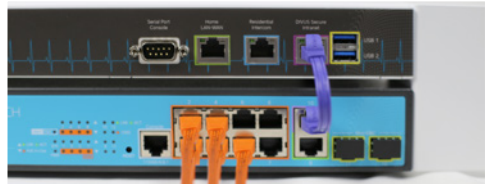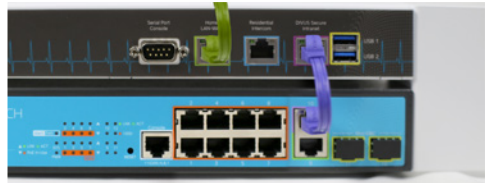4. Turn on both devices using the power switch on the back side.

5. If the internet router is already installed, connect it using the Home LAN/WAN port.
   PLEASE NOTE: If the internet router is not available yet, proceed normally with the shown steps. Step 5 shall be completed once the internet connection is available. Your DIVUS HEARTBEAT will then adapt to the new network automatically. No new configuration of the single devices will be necessary if you follow the instructions detailed here and in the DIVUS HEARTBEAT manual, available from www.divus.eu.

6. Connect the DIVUS and/or third-party home automation devices to the DIVUS MANAGED SWITCH on the orange POE+ - ports 1-8
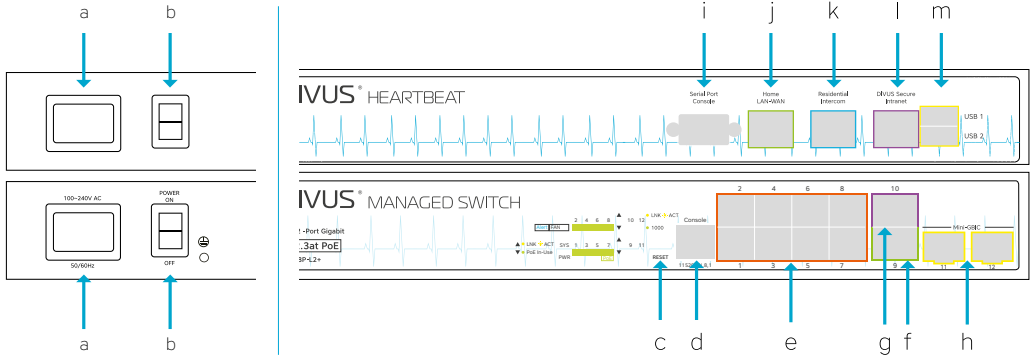
FIRST SETUP

7. Connect your laptop to the DIVUS MANAGED SWITCH (DMS-8P-L2+) port 9 (green).
8. Open your browser and go to: https://dhb-heartbeat
9. Complete the registration process.
10. Login.
11. Follow the guided instructions in the web interface:
    a. Adaptation of network parameters (if necessary)
    b. Network scan (may take a few minutes to complete!)
    c. Report download (if necessary)

TECHNICAL DATA

	MANAGER	MANAGED SWITCH
GENERAL HARDWARE SPECIFICATION		
Power supply	100 ... 240VAC, 50/60Hz	100 ... 240VAC, 50/60Hz
Power consumption	Max. 1A (100 VAC) /max. 0,55A (240VAC)	Max. 3A (100 VAC) / max. 1,35A (240 VAC)
	Total max. consumption 420W	
Protection grade	IP 20 according EN 60529	
Dimension (WxDxH)	330 x 200 x 43.5 mm, 1U height	330 x 200 x 43.5 mm, 1U height
	Total size: 483 x 200 x 88, 2U height	
Weight	ca. 1.5 kg	ca. 2 kg
	Total weight: ca. 3.5 kg	
Temp. range (operating)	Temperature: +5°C ... +45°C	
	Relative humidity: 5% ... 80% at 25°C (no humidity/condense)	
Temp. range (storage)	Temperature: -10°C ... +60°C	
	Relative humidity: 5% ... 80% at 25°C (no humidity/condense)	

LAYOUT

a)   Power connector on plug - Manager & Switch
b)   Power switch - Manager & Switch

MANAGED SWITCH
c)   Switch reset button
d)   Serial interface on RJ45
e)   8 POE+ ports (orange 1-8) DIVUS SECURE NETWORK
f)   Port 9 – for cascading connections (to other switches) or for normal client devices.
g)   Port 10 – same as 9. Use to connect to manager.
h)   Port 11-12 Mini-GBIC - not in use

MANAGER
i)   Serial interface on DB9
j)   Home LAN-WAN
k)   Residential Intercom
l)   DIVUS SECURE INTRANET - port to connect manager to switch
m)   2 USB 3.0 ports

CLIENT SETUP

OPTIMA

TOUCHZONE

1. Connect the TOUCHZONE(s) using one of the 8 ports of the DIVUS MANAGED SWITCH.
2. In the OPTIMA App's settings, use divus-heartbeat as KNX SERVER IP address port number 3000
3. Use the new DIVUS App DIVUS HEARTBEAT to see and change the DIVUS heartbeat's settings, watch the logs, scan the network etc.

FOR OTHER CLIENTS (SUPERIO, MIRROR, DIVA, laptops/PCs/Macs etc.)
Please use dhb-heartbeat:3000 to load OPTIMA in a browser's window. Use Google Chrome for best results.

<table>
<tr><td>iOS & Android devices</td><td>SUPERIO and other Windows based Panels</td></tr>
<tr><td>KNX SERVER IP ADDRESS FIELD (OPTIMA App):
dhb-heartbeat</td><td>URL (Browser):
dhb-heartbeat:3000</td></tr>
<tr><td>PORT FIELD (OPTIMA App):
3000</td><td>For https, substitute port 3000 with 3001</td></tr>
</table>

VIDEOPHONE (INTERCOM)

For any version of the DIVUS VIDEOPHONE: (iOS & Android devices)

<table>
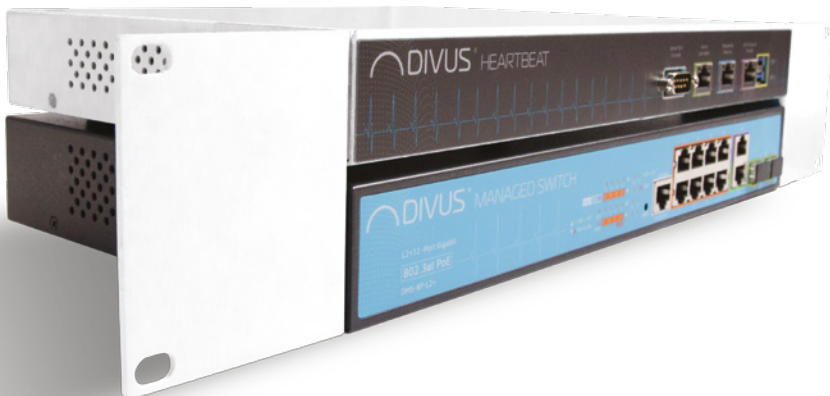<tr><td>VoIP SERVER IP ADDRESS FIELD:
dhb-heartbeat</td><td>PORT FIELD (Videophone):
5060 (default SIP port)</td></tr>
</table>

DIVUS KNX SERVER / KNX SUPERIO v. 2.2+

Only change to the KNX SERVER settings:

1. If you are using a KNX SERVER or KNX SUPERIO with a fixed IP address, switch from STATIC to DHCP in the network settings page and save. Otherwise or if you bought the KNX SERVER/KNX SUPERIO together with the DIVUS HEARTBEAT, go directly to point 2.

2. Connect to the DIVUS HEARTBEAT using a browser on any computer connected to the DIVUS MANAGED SWITCH (see FIRST SETUP) and make a scan. Wait for the scan to complete.
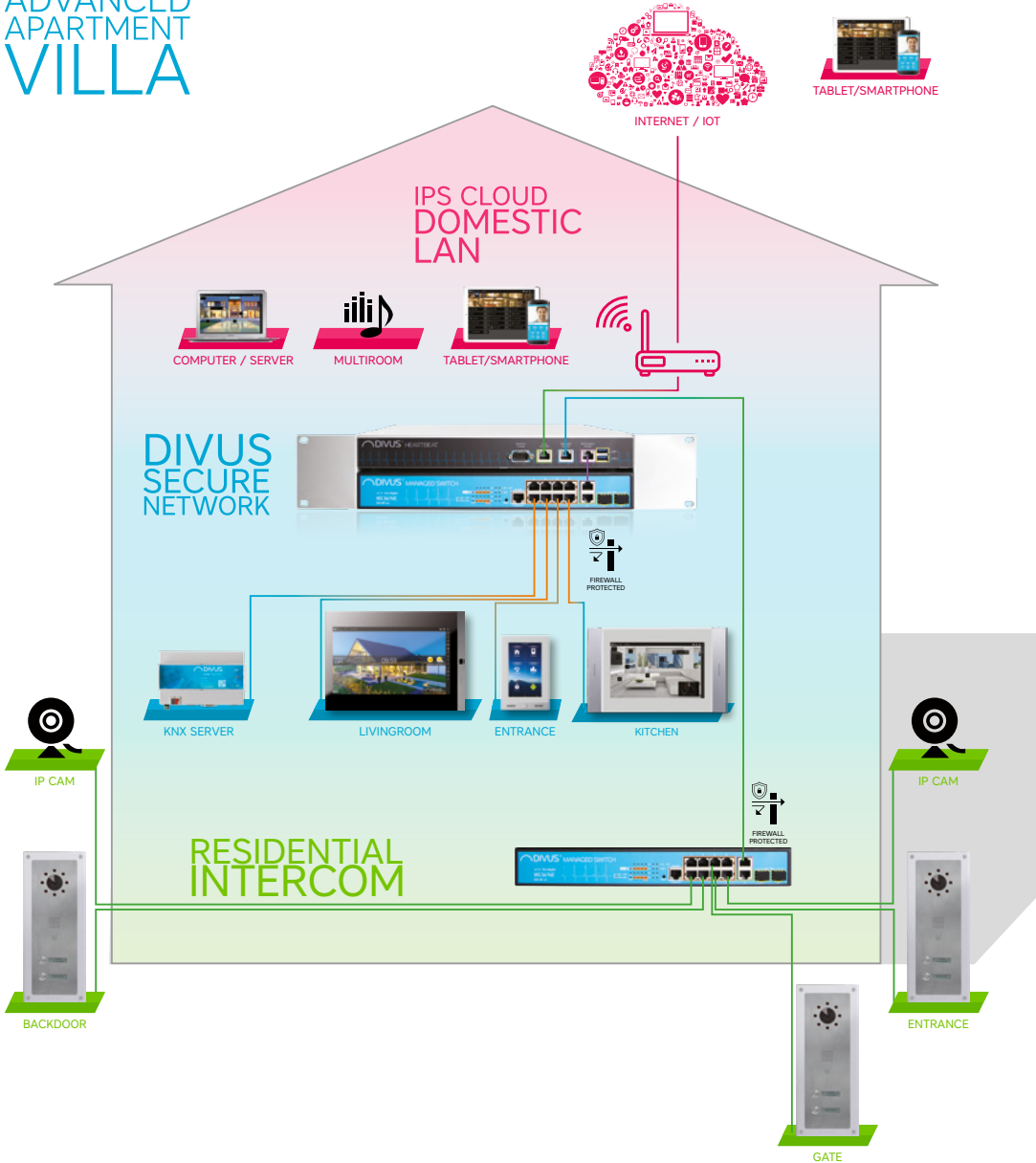3. Then use the path shown above to connect from clients.

IMPORTANT NOTE:
PLEASE DO NOT USE THE IP ADDRESSES OF THE SERVERS IN THESE CONFIGURATIONS! USING dhb-heartbeat ALLOWS THE SYSTEM TO ADAPT TO NETWORK CHANGES IN THE FUTURE AUTOMATICALLY, WITHOUT THE NEED TO RE-CONFIGURE ANYTHING.
NOTE: IF YOU CHANGED THE NAME dhb-heartbeat DURING THE FIRST SETUP, YOU MUST USE THE NEW ONE.

CONNECTION DIAGRAMM

ADVANCED APARTMENT VILLA

INTERNET / IOT

TABLET/SMARTPHONE

IPS CLOUD
DOMESTIC LAN

COMPUTER / SERVER

MULTIROOM

TABLET/SMARTPHONE

DIVUS SECURE NETWORK

FIREWALL PROTECTED

KNX SERVER

LIVINGROOM

ENTRANCE

KITCHEN

IP CAM

IP CAM

FIREWALL PROTECTED

RESIDENTIAL INTERCOM

BACKDOOR

ENTRANCE

GATE

SIMPLE
APARTMENT
HOME

ADVANCED
APARTMENT
VILLA

SIMPLE
RESIDENTIAL
2-4 APARTMENTS

ADVANCED
RESIDENTIAL
TOWER

FUNCTIONALITIES

VoiP server	Network diagram
VoiP call logging	Network logging
Managing of multiple switches	Network diagnostic
Firewall protection of Home LAN and DIVUS SECURE NETWORK	Loop protection
	DIVUS device control
Firewal protection of external residential network to Home LAN and DIVUS SECURE NETWORK	DIVUS device manage
	DIVUS device configuration
Network scan	DIVUS device logging
Generation of network reports	DHCP server to DIVUS SECURE INTRANET
Sending network report by email	NTP server to DIVUS SECURE INTRANET

STANDARD

DIVUS HEARTBEAT meets the following guidelines and standards:

Low Voltage Directive 2014/35/EU (ex 73/23/CEE – 93/68/CEE – 06/95/CE)
Standard(s) to which conformity is declared:
      EN 50491-3:2009, EN60950-1:2006+A11:2009+A1:2010+A12:2011   Safety

EMC Directive 2014/30/EU (ex 89/336/CEE – 92/31/CEE – 93/68/CEE - 04/108/CE)
Standard(s) to which conformity is declared:
      EN 50491-5-1:2010, EN 50491-5-2:2010   Conducted & Radiated Emissions

RoHS2 Directive 2011/65/EU (ex 02/95/EC)
Standard(s) to which conformity is declared:
      EN 50581:2012   Restriction of hazardous substances

The installation and wiring instructions contained in this documentation must be heeded. Conformity is indicated by the attached CE label.

The EC conformity statements can be obtained from:

DIVUS GmbH
Pillhof 51
I-39057 Eppan (BZ) - Italy

Regarding Directive 2011/65/EU (ex 2002/95/EG) waste electrical and electronic equipment has to be collected separately and is not allowed to dispose as unsorted municipal waste.

GENERAL INFORMATION

DIVUS GmbH
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Touchpanels for any application
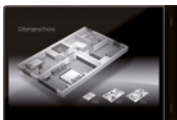

TZ07 – TZ10 – TZ15 – TZ19
DIVUS TOUCHZONE

DSK10 – DSK15 – DSK19
DIVUS SUPERIO

DM15 – DM19
DIVUS MIRROR

DD10 – DD15 – DD19
DIVUS DOMUS

DIVA22
DIVUS DIVA

DH10 – DH15
DIVUS HOME

Intercom & Apps

DIVUS OPENDOOR

DIVUS VIDEOPHONE

DIVUS APPS

KNX visualization system

DIVUS KNX CONTROL

KNX SERVER

DIVUS HEARTBEAT

DIVUS®
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