

# 86-SW-IVS-NET - IHM IVS NET

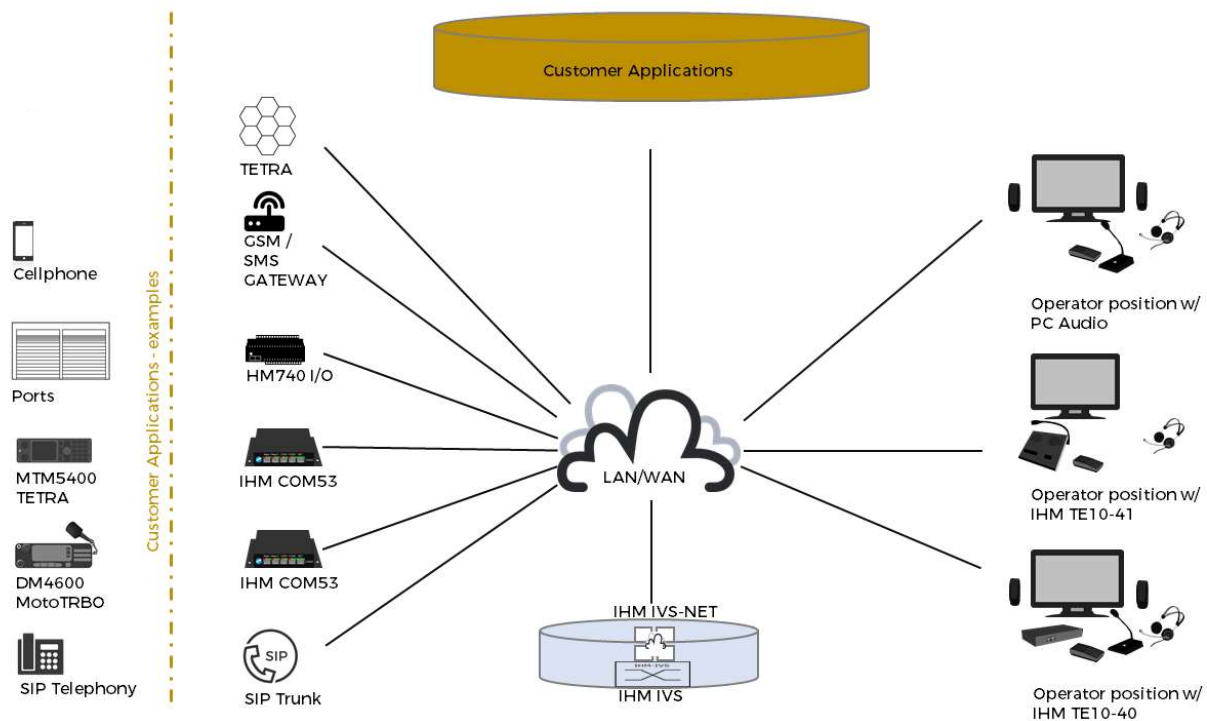
**PRODUCT SHEET**

The IHM IVS-NET is an TCP/IP or XML controlled application (read: software package) for building of command-and-control room applications on top of the IHM IVS (IP Voice Switch). It is designed for OEM partners, who wants to build or make use of their own developed dispatcher software.

IHM provides the 86-SW-IVS-NET in various sizes. The size of the package is determined by the size of the associated IHM IP Voice Switch, hereunder the requirements for number of connections. As standard, the software packages are delivered with 8, 16, 32, 48 or 64 connections referred to as IVS-8, IVS-16, IVS-32, IVS-48, IVS-64.

Both the TCP/IP and XML based interface allow you to control all functions of the IHM 86-SW-IVS-NET, e.g., remote control of radios (from simple 4-wire interfaces to advanced TETRA interfaces), telephone lines, conversations, conferences, output to voice recorders etc.

Typically, the IHM applications are installed on a single 'entry-level' server PC (physical or virtual) but can be installed in a full redundant environment as well.



Primarily, the 86-SW-IVS-NET has been implemented for applications for mission critical communication at police forces, ambulance services, fire brigades, home care, mining companies as well as for public transport.

For control of the audio, the IHM terminal TE10-40, TE10-41 or the software application IHM-PC-Audio. The IHM-PC-Audio is to be installed on the dispatcher PC. The audio for the operator position is controlled via a VoIP connection from the IHM IVS.



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## Interfaces available – to be selected

<b>Operator terminals</b>	<p>The IHM VoIP Switch may use 3 kind of audio interface.</p> <ul style="list-style-type: none"> <li>• IHM TE10-40/3, a headset box.</li> <li>• IHM TE10-41/1, a control box including PTT, Loudspeaker and Mic.</li> <li>• IHM PC-Audio, a software audio driver for your dispatcher PC.</li> </ul>																
<b>Radios</b>	<p>The IHM VoIP Switch interfaces to all IHM COM53s, which are IP enabled radio base station controllers.</p> <table> <tr> <td>87-COM53/1</td> <td>Generic interface 4 W E/M</td> </tr> <tr> <td>87-COM53/6</td> <td>Motorola TETRA MTM 5400 Databox</td> </tr> <tr> <td>87-COM53/7</td> <td>Motorola DMR, DMR 4600, XPR5580</td> </tr> <tr> <td>87-COM53/7A</td> <td>Motorola Analogue 1, Channel DMR 4600, XPR5580</td> </tr> <tr> <td>87-COM53/7B</td> <td>Motorola Analogue MultiChannel DMR 4600, XPR5580</td> </tr> <tr> <td>87-COM53/8</td> <td>Motorola TETRA MTM 5400 Dash- or Desktop</td> </tr> <tr> <td>87-COM 53/GSM</td> <td>GSM interface incl. GSM module</td> </tr> <tr> <td>84-TETRA-3/2</td> <td>19" 2HU Cabinet for MTM 5400 TETRA databox terminal</td> </tr> </table> <p>Please check specific product sheet.</p>	87-COM53/1	Generic interface 4 W E/M	87-COM53/6	Motorola TETRA MTM 5400 Databox	87-COM53/7	Motorola DMR, DMR 4600, XPR5580	87-COM53/7A	Motorola Analogue 1, Channel DMR 4600, XPR5580	87-COM53/7B	Motorola Analogue MultiChannel DMR 4600, XPR5580	87-COM53/8	Motorola TETRA MTM 5400 Dash- or Desktop	87-COM 53/GSM	GSM interface incl. GSM module	84-TETRA-3/2	19" 2HU Cabinet for MTM 5400 TETRA databox terminal
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<b>SIP Phone</b>	<p>IHM IVS-NET works as a SIP PBX enabling cross communication between the external SIP phones, operator positions and radios. SIP phones registers directly on the IHM IVS-NET.</p> <p>A software license package: 86-SW-CC-SIP-01 is applicable.</p>																
<b>SIP PBX</b>	<p>IHM IVS-NET works as one or more SIP phones enabling cross communication between the external SIP phones, operator positions and radios. SIP PBX register on the SIP PABX and it can then send and receive calls in the same way a SIP Phone does.</p> <p>Authentication is supported, which ensures non-registration of foreign phones.</p> <p>A software license package: 86-SW-CC-SIP-01 is applicable.</p>																
<b>TETRA</b>	<p>The IHM IVS-NET interfaces to Motorola Dimetra infrastructure.</p> <p>Software license packages are applicable.</p>																
<b>Alarm terminals</b>	<p>The IHM IVS-NET supports a huge variety of alarm terminals from intruder alarms, fire alarms, door phones, elevator alarms, home care calls etc.</p> <p><i>Please contact IHM for further information.</i></p>																
<b>I/O</b>	<p>The IHM IVS-NET also controls the IHM HM740/n I/O over IP boxes.</p> <p>The HM740 unit is available in various models, please check specific product sheet.</p>																



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**PRODUCT SHEET****Technical data**

<b>Switch capacity</b>		
	IVS-8 – 8 external connections IVS-16 – 16 external connections IVS-32 – 32 external connections IVS-64 – 64 external connections	
<b>Telephony</b>		
	SIP	RFC3261
	SDP	RFC4566
	Authentication	RFC2617
	RTP	G.711
<b>Voice/Tone/messaging</b>		
	Number	255
	Maximum duration each	30 minutes
<b>Codecs</b>		
	G711 a-law	
	G711 $\mu$ -law	
<b>Jitter buffer</b>		
	Typical	40 msec
	Maximum	200 msec
<b>Package size</b>		
	Sound packages	20 msec
<b>Dial tone / Busy tone</b>		
	Frequency	425 Hz
	Pulse - Pause	Codable in 10 msec steps

**Server requirement 8-32 subscribers**

<b>CPU Cores</b>	<b>CPU Speed Ghz</b>	<b>RAM GB</b>	<b>SSD GB</b>	<b>LAN ports 100Mb</b>	<b>OS</b>	<b>IHM stock no.</b>	<b>Type</b>
4	2	4	200	1	Windows 10 or Windows Server 2012 or 2016	84-PC-BASIS14	INTEL NUC BOX NUC715BNK; 2,4 GHz Intel i5 7 <sup>th</sup> Gen, Quad Core 4 GB RAM, 120GB SSD.

**Server requirement 33-64 subscribers**

<b>CPU Cores</b>	<b>CPU Speed Ghz</b>	<b>RAM GB</b>	<b>SSD GB</b>	<b>LAN ports 100Mb</b>	<b>OS</b>	<b>IHM stock no.</b>	<b>Type</b>
18	2	16	2 x 300	2	Windows 10 or Windows Server 2012 or 2016	84-PC-SERVER8	HPE DL20; 2,0 GHz Xeon E7-8880L V3, 16G RAM, 2x300GB SSD



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