Technical Specifications

IHE standard HL7 v2.6 (compatible with 2.x by mapping)

BeneVision Central Station
BeneVision N22/N19/N17/N15/N12/N1
BeneView T9/T8/T6/T5/T1/TDS
ePM 15/12/10/12M/10M
iPM 12/10/8
iMEC 15/12/10/8
uMEC 12/10
PM 9000/8000/7000
MEC 2000/1200/1000
VS 900/800
BeneHeart D6/D3
BeneHeart R12 /R3 (only ADT function)
BeneVision TM80
TMS-6016 via Central Station

Number of connected devices

Up to 200 terminals connected at the same time

Data output protocol

IHE standard HL7 v2.6 (compatible with 2.x by mapping)

ADT Service

Supports ADT listen mode
Supports ADT query mode

Result Service

Support 4 channel result data transmission

Transmission modes	Unsolicited-Client mode
	Unsolicited-Server mode
	Solicited Server mode
	Solicited Client/Server mode
	File mode
Data resolution	30s/1min/2min/3min/4min/5min/10min/ 15min/30min/45min/60min

Alarm Service

Supports 3 channel alarm transmission

The data includes	alarm type, alarm limits, alarm priority, alarm state and alarm waveform

Report Service

Support sharing XML/PDF reports

Sharing modes	File copy
	Contents of reports by ORU
	Reference of reports by ORU
	Contents of reports by MDM
	Reference of reports by MDM

Full Disclosure

Supports 1 channel high resolution Full Disclosure transmission

Timing service

Supports getting time information from NTP server to synchronous devices' time

Data Backfilling

Supports 48 hours 1 minute resolution data backfilling

Virus protection

McAfee™ SolidCore S3
McAfee™ VirusScan Enterprise 8.8

Operating system requirements

Windows Server 2016 Standard 64bit
Windows Server 2012 R2 Standard 64bit
Windows Server 2008 R2 Standard SP1 64bit
Windows Server 2008 Standard SP1 32bit
Windows 10 LTSB 2016
Windows 7 Professional SP1 32bit
Windows 7 Professional SP1 64bit

Hardware configuration requirements

CPU	2.9G 4Core
Memory	4G DDRIII 1600MHz
Hard-disk	500G SATA
Network adapter	100M/1000M Ethernet 802.3
Display	Resolution 1280*1024

Virtualization environment requirements

VMware ESXi 5.1.

CPU	2.4G, 4Core, default settings
Memory	4GB

HD partition 1(Operating system & eGateway application)
40GB, Thick Provisioned, dependent mode
HD partition 2 (data)
60GB, Thick Provisioned, dependent mode

Network adapter	100M/1000M

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P/N: ENG-eGateway-210285X8PX20190131

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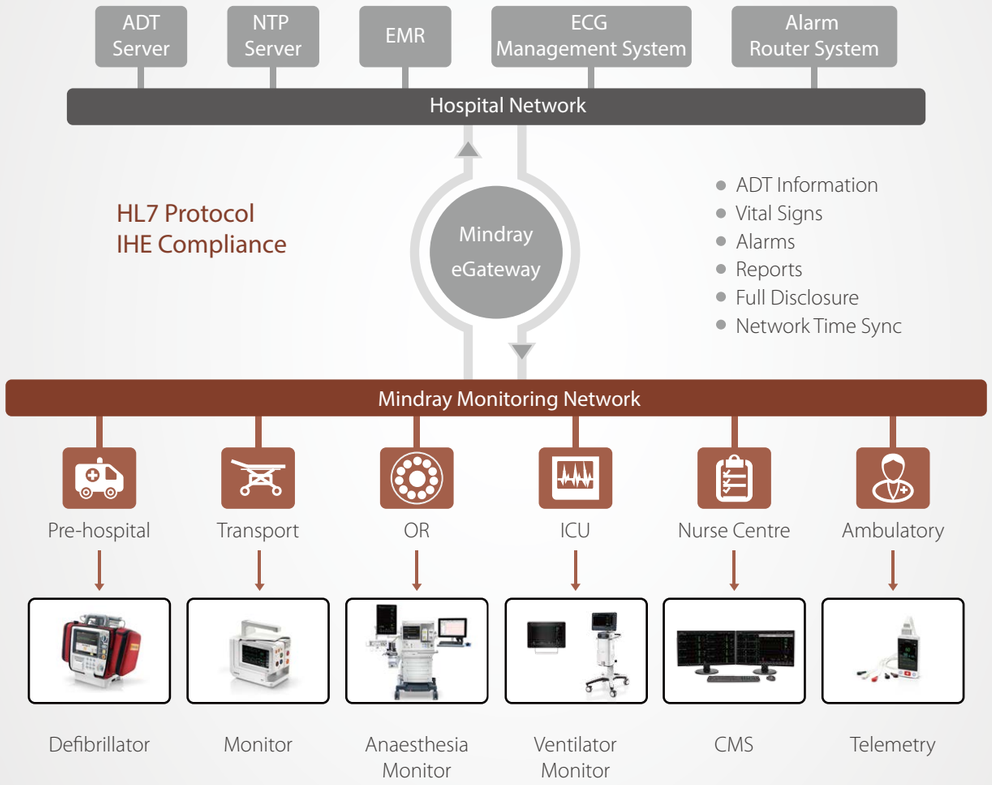
eGateway

Enterprise integration solution

Superior Data Connection

eGateway is a member of the Mindray monitoring product family and is the bridge between hospital information systems and Mindray monitoring system. It provides bi-directional communication, sending comprehensive data which includes vital signs, alarms, reports and full disclosure to the hospital information system. Besides, it can download patient demographics from hospital ADT Servers to Mindray monitoring system.



Extended compatibility

Compatible with Clinical Information Systems

eGateway uses the standard IHE HL7 protocol, making it easier to connect with almost all clinical information systems from current mainstream vendors. eGateway supports five transmitting methods including: unsolicited-client, unsolicited-server, solicited-server, solicited-client/server and file. This makes eGateway extremely flexible and compatible with various information systems. With the built-in HL7 edit engine, the Mindray Service Team can help you connect Mindray devices or your existing information system quickly and at a reasonable cost.
The comprehensive setting of eGateway makes it customisable to satisfy all your connection requirements.

Compatible with medical devices

eGateway not only supports connection to all Mindray patient monitors, but also Mindray anaesthesia machines and ventilators through BeneLink. For other vendors' devices including infusion pumps, anaesthesia machines and ventilators, connection can be achieved to Mindray patient monitors by using BeneLink modules and their data can also be sent to eGateway via the Mindray monitoring network.

Superior reliability

Data Safety

Protecting the safety of your data has been fully considered. eGateway can support 48 hours of data, backfilling for both medical devices and information systems which meet the requirement, whether it is an unpredictable network interruption or intentional network maintenance. It also supports using another eGateway for redundancy, avoiding lost data through a single point of failure.

Data Security

ePHI disclosure can cause serious consequences for both patients and the hospital. eGateway adopts a sophisticated encryption strategy to protect ePHI security. SSL and XXTea encryption have been used for patient monitor side communication and iPSec for information system side communication. ePHI in eGateway is also protected by windows EFS.

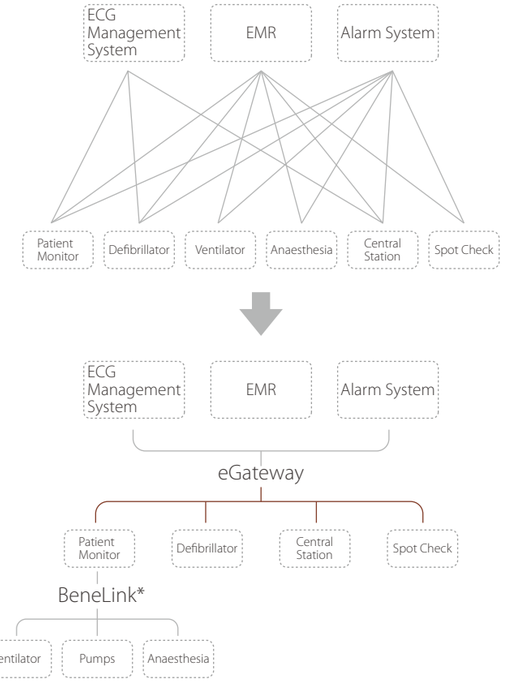
Meets Hospital IT strategies

To meet Hospital IT strategies, eGateway supports running under Windows General User permissions and joining the hospital domain. It also supports anti-virus programmes such as McAfee Application Control and McAfee VirusScan Enterprise 8.8, making it more reliable. System patch lists can be issued regularly to you by our Service Centres.

More economic

Reduce connection costs

Up to 200 medical devices can be connected to one eGateway and the data from all of these devices can be sent to the clinical information system through one interface. This not only reduces the license fee for connecting clinical information systems but also reduces your communication costs for connection because eGateway is consolidating data from multiple medical devices.



Direct connection
More connections cause more collaborative costs
more license fee and more maintenance investment

Through eGateway
eGateway makes the infrastructure simpler and reduces most of the connections, decreasing you investment outlay

* The medical devices which connect to BeneLink could be other vendors' devices

Reduce maintenance costs

eGateway can be Virtualised by using the existing VMware virtual server in the hospital and supports joining windows domains, meaning eGateway can be centrally managed. This makes the network more stable and migration more convenient, helping to reduce maintenance costs.