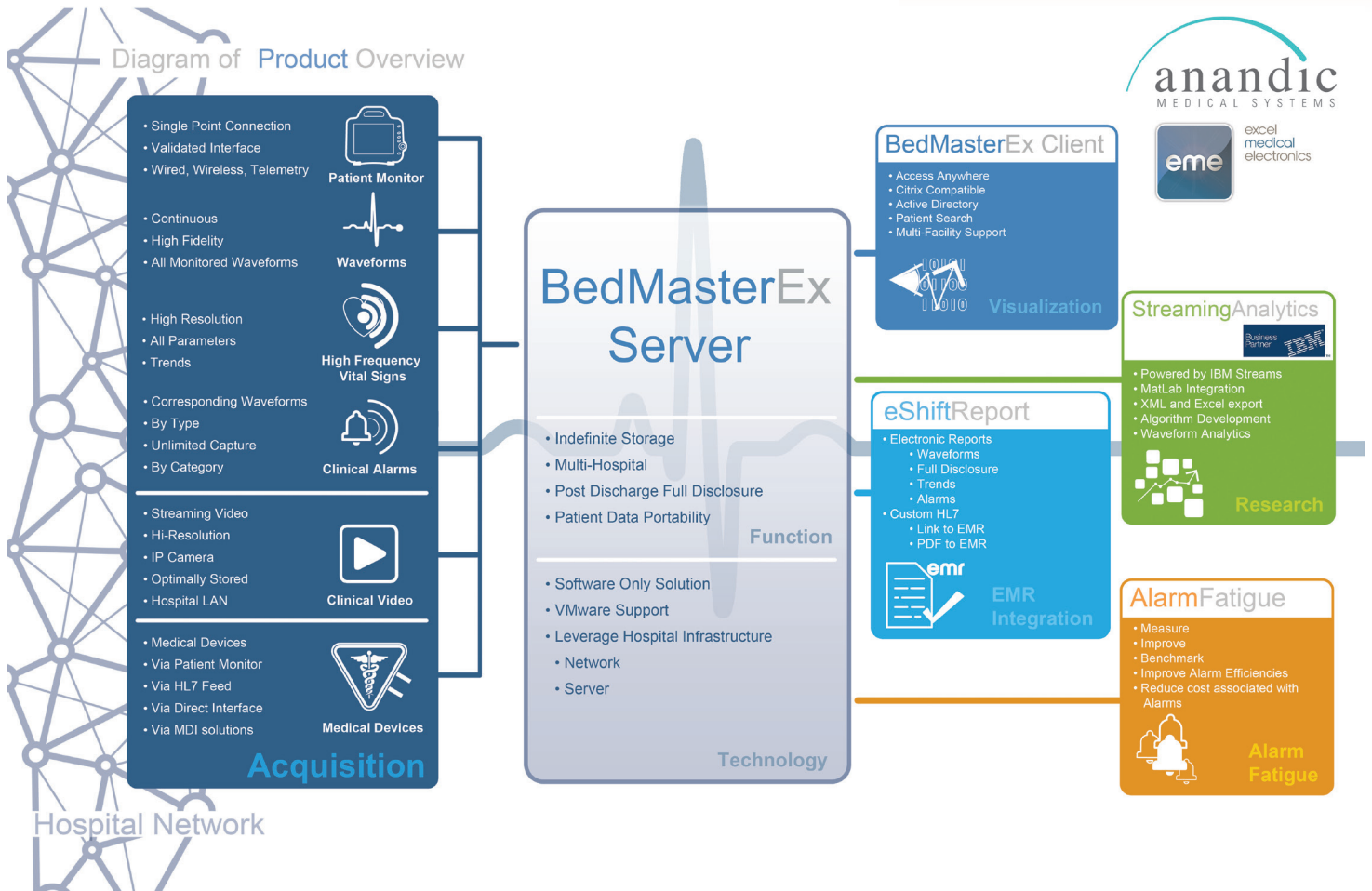


BedMasterEx



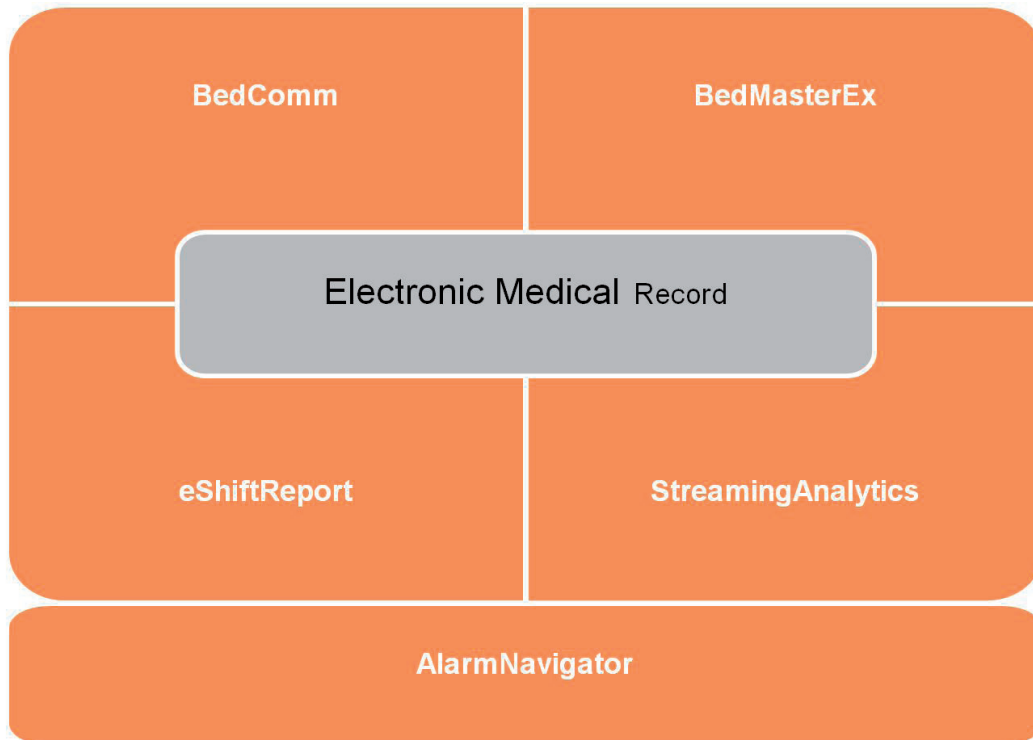
Data acquisition, reporting, analysis, distribution/ visualisation of vital signs from patient monitor networks and interfaced equipment; numerical vital signs, dynamic physiological waveforms, alarm, trends.

EXCEL MEDICAL



The acquired patient data is maintained in the BedMasterEx database for a timeline determined by the hospital to support clinical case review, research, alarm analytics, and the quality control objectives of the clinical department or hospital. In addition, patient data can be exported / imported in an HL7/XML format to/from EMR systems or other hospital systems specified by the hospital.

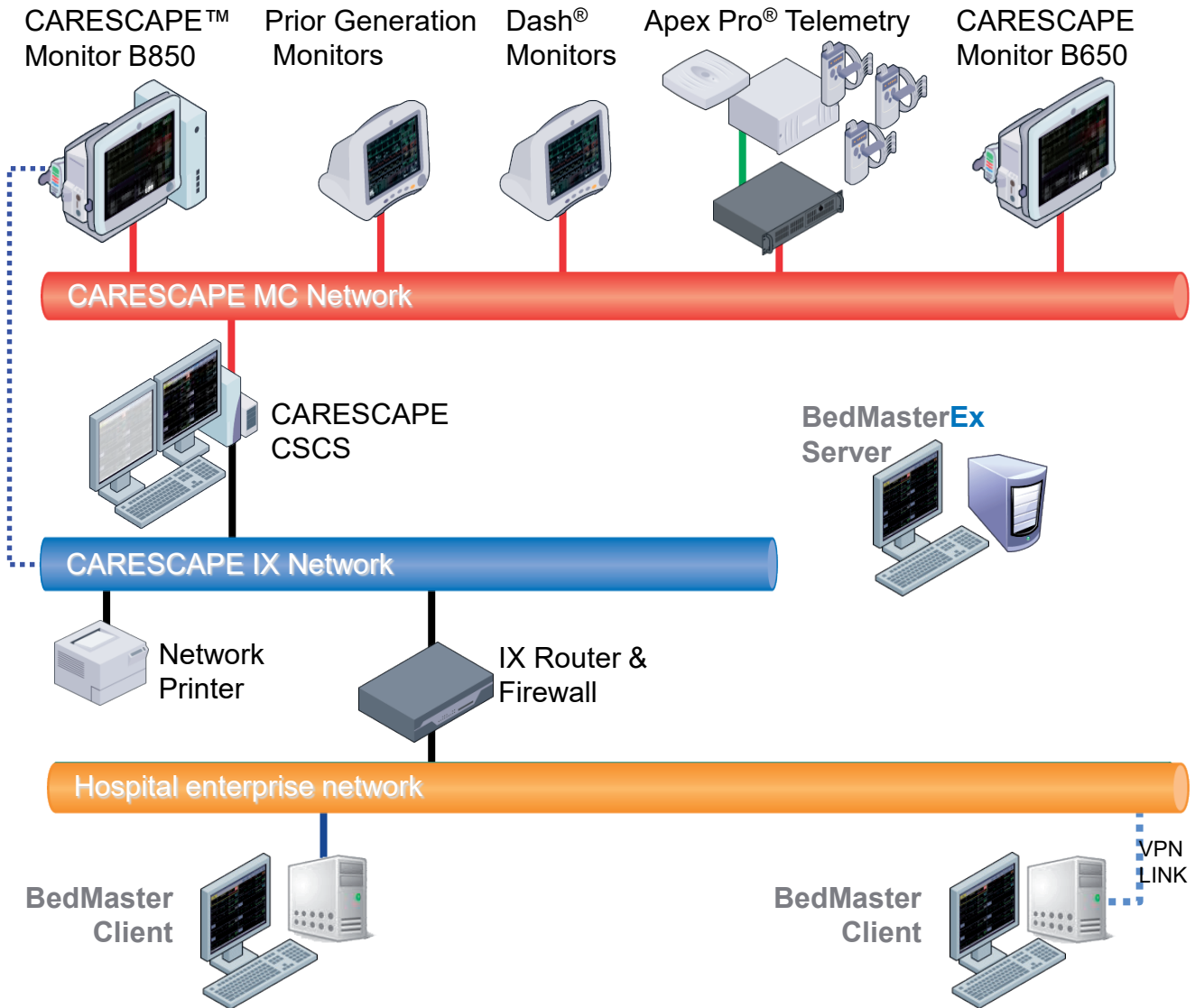
The BedMasterEx system is a Microsoft Windows dotNet application which is usually implemented in a client / server environment. The system can be configured to function in the technical infrastructure found in most hospital Information system departments.



BedmasterEx is a software-only solution receiving data directly from GE healthcare or Philips patient monitor networks. BedmasterEx acquires continuously and infinitely numerical data, physiological waveform alarm data and data from interfaced medical equipment.

BedmasterEx can save infinitely data in her MS SQL database. All monitor data can be viewed in near real time throughout the hospital from any client PC or through Citrix.

**Network topology
example of the GE Carescape Monitornetwork (MC):**



1. Direct connection to the Carescape MC Network
2. User configurable longtime archiving of all monitoring parameters
3. User configurable archiving interval up to 5 seconds
4. A complete file of all data is available for the clinical users

Vital Signs Data and trend screen shots

EME BedMaster6x
Patient: HAGGARJADAM
Vital Signs
Trends | Limits
CCU-BED03
Wed Jan 16, 2013 9:43:26

Label: _____
Interval: 5 Seconds
Duration: While Admitted
Export Single
 Tab Delimited XML HL7
Dir: C:\BedMasterEx\Data\Future Beda\

Start Stop

ECG
 ST
 Resp
 BP
 NBP
 Temp
 CO
 SPO2
 CO2
 Ventilator
 Gas
 TCO2
 COO
 RIM
 UROM
 ICG
 BIS
 EEG
 IV Pump
 SVO2
 ABG
 Graffe
 NCO
 Arctic Sun
 MicroDialysis
 Somnastics
 Pande
 Uocox
 Tina
 Hemedex
 Vgileo
 Integra
 Ploco
 12SL
 Cardiac Calcs
 Pulm Calcs
 MK300
 Estech
 Avera
 madec

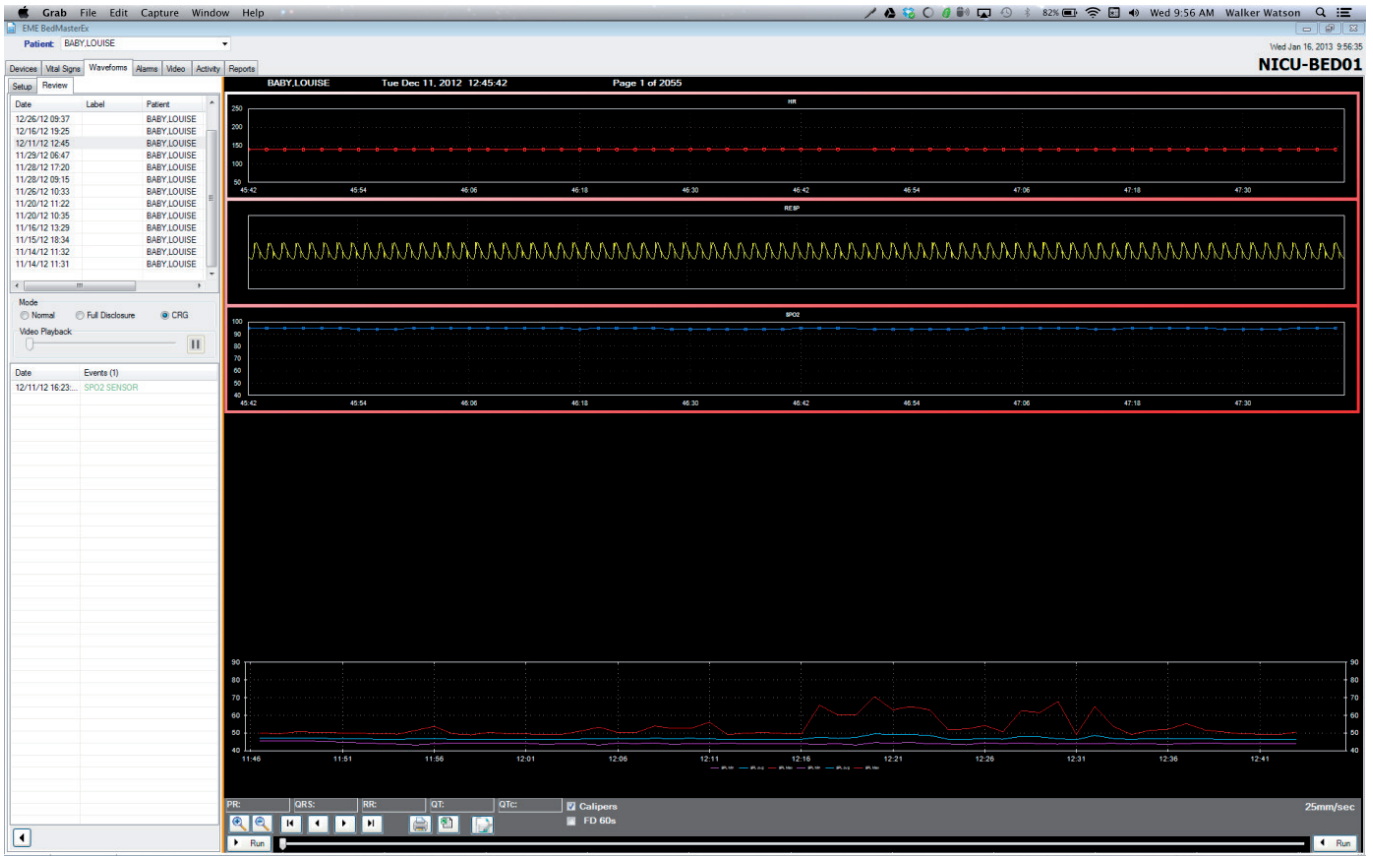
Set All Clear All

Vital Signs (9:43:22 to 9:37:57)	9:43:22	9:43:17	9:43:12	9:43:07	9:43:02	9:42:57	9:42:52	9:42:47	9:42:42	9:42:37	9:42:32	9:42:27
1/16/13												
HR	69	69	69	69	69	69	69	69	69	69	69	69
ST-AVR	0.1	0.1	0.1	0	0	0	0.1	0.1	0.1	0	0	0
ST-AVL	0	0	0	0	0	0	0	0	0	0.1	0.1	0
ST-AVF	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1
ST-I	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0	0	0
ST-II	-0.2	-0.2	-0.2	0	0	0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
ST-III	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	0
ST-V	0	0	0	0	0	0	-0.1	-0.1	-0.1	0	0	0
ST-VI	0	0	0	0	0	0	-0.1	-0.1	-0.1	0	0	0
RESP	20	20	20	20	20	20	20	20	20	20	20	20
APNEA	0	0	0	0	0	0	0	0	0	0	0	0
ARI-S	138	138	136	136	136	136	137	137	137	137	137	137
ARI-D	74	74	74	74	74	74	74	74	74	74	73	73
ARI-M	95	95	95	95	95	95	95	95	95	95	95	95
ARI-R	69	69	69	69	69	69	69	69	69	69	69	69
PAZ-S	34	33	33	33	33	33	33	33	33	33	33	33
PAZ-D	15	15	15	15	15	15	15	15	15	15	15	15
PAZ-M	23	23	22	22	22	22	23	23	22	22	22	23
SPO2-R	70	70	70	70	70	70	70	70	70	70	70	70
SPO2-%	91	91	91	91	91	91	91	91	90	90	91	91
TMP-1												
TMP-2												
DELTA-TMP												

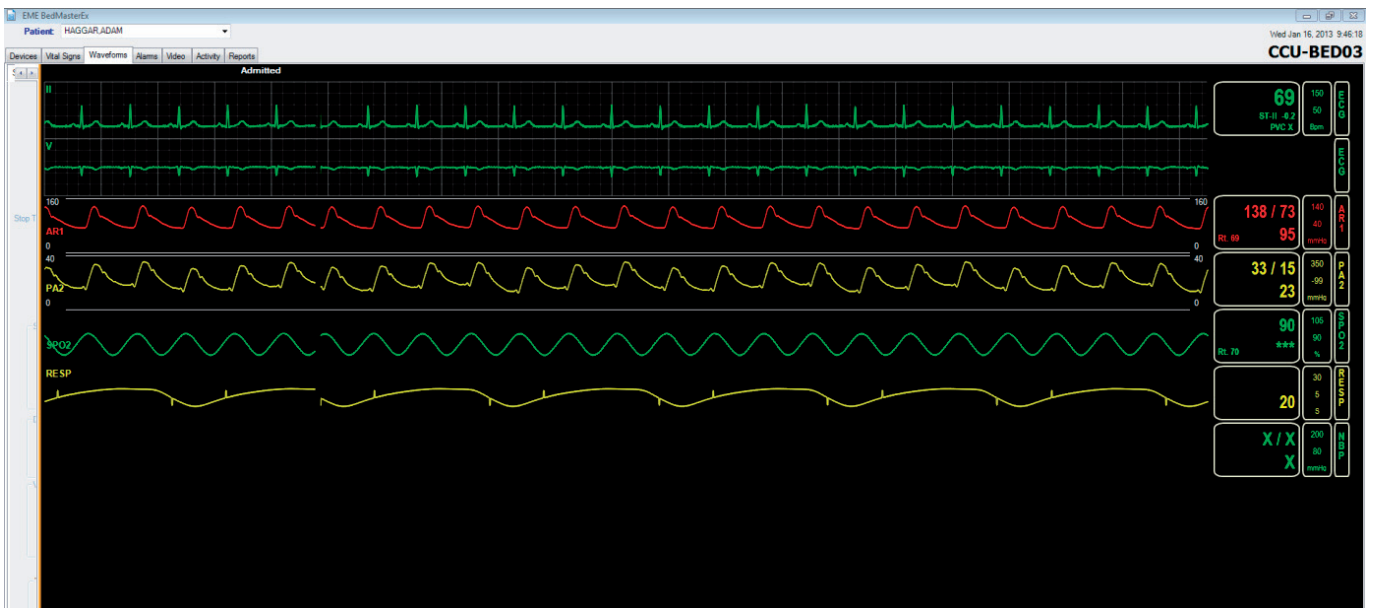
Trend recording with simulator with fixed settings



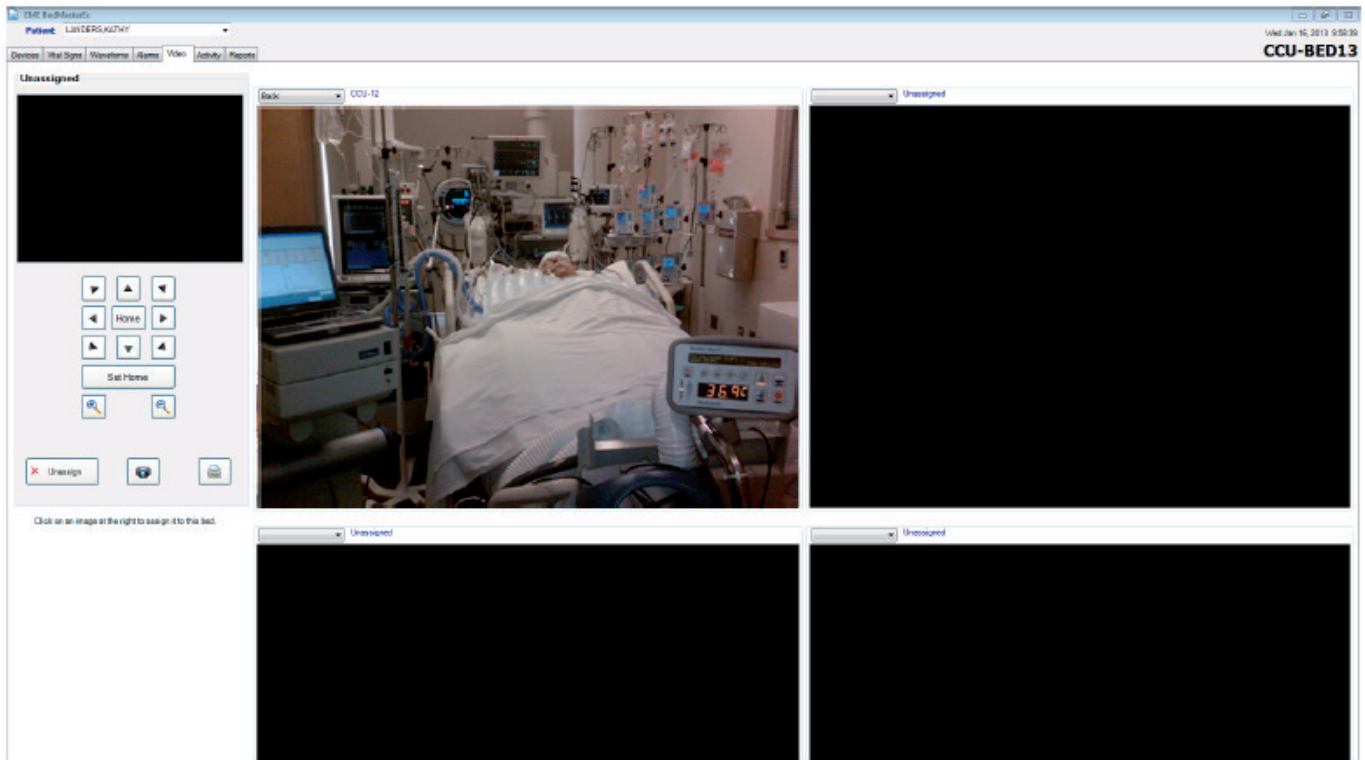
Configure your own trend pages
e.g. cardio-respirogram



Real time dynamic waveform view



HD Video feed – integration

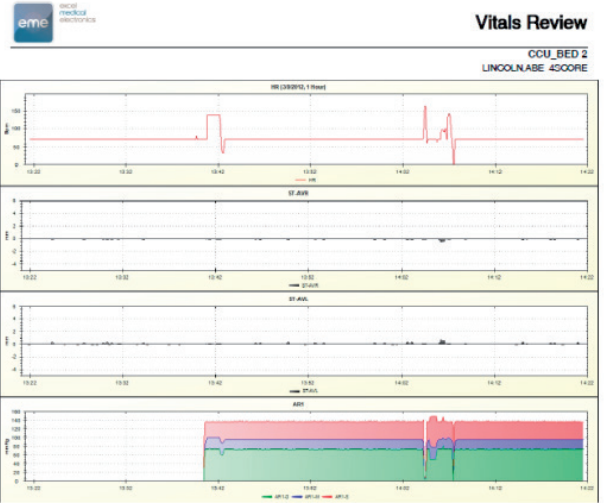
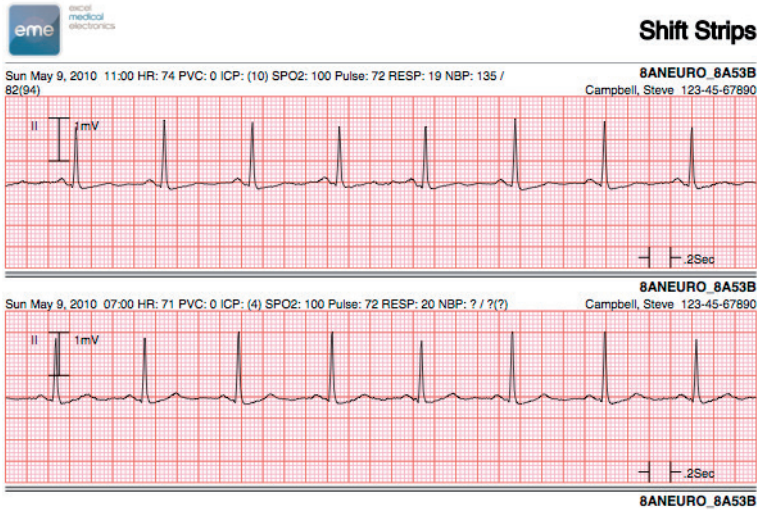


StreamingAnalytics

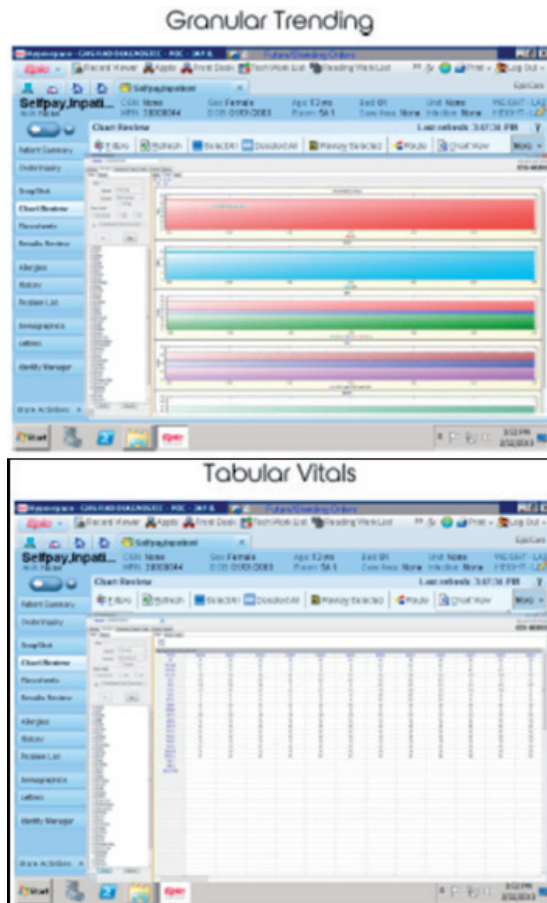
	Technology Barrier	EME Solution	Customer Use Care
Challenge 1	Scalable acquisition of high frequency patient monitoring data across hospital's enterprise.	BedMasterEx: data acquisition software	BedMasterEx deployed as software-only solution capable of physiological data acquisition from GE and Philips patient monitoring networks.
Challenge 2	Lack of analytical tools able to process large volumes of streaming, unstructured data in real time.	EME Streaming Analytics: powered by IBM InfoSphere Streams	Integration of BedMasterEs and StreamingAnalytics platforms allow researchers to analyze patterns in physiological data that may detect and eventually predict deadly clinical events such as cardiac arrest, ischemia and sepsis.

Reporting

- Transfer protocols
- Vital signs
- ECG strips
- Alarms



Integration in the EMR



BedMaster overview

BedMasterEx

- Acquisition and archiving of physiological waveforms of patients monitored in a GE healthcare or Philips patient monitoring network
- Infinite archiving of waveforms and numeric data and alarm
- Display on client PC's through a secured browser functionality of real time and archived information such as numerics and waveforms
- Location independent access to patients vital signs
- Reporting throughout the complete monitored hospital stay
- Single sign on to the BedmasterEX client through the EMR
- Complete reporting after dismissal of the patient

eShiftReport

Configuration and of cardio reports including waveforms, numerics, comments.

AlarmNavigator

Alarm Navigator™ is the data acquisition software platform that captures alarm data from patient monitoring networks. It allows clinicians to dissect data by care area, alarm type, even shift and bed. Its web-based accessibility allows patient safety committees, nursing leadership and technology experts to establish alarm baselines, evaluate progress and modify alarm strategies and address (in the US) Joint Commissions National Patient Safety Goal on Alarm Management.

BedComm patient device integration

BedComm's simple plug-and-play technology allows clinicians to connect their additional medical devices (beside the patient monitor) to bedside ports, and through the BedComm platform, data is transmitted to the BedmasterEX database and can be integrated in the EMR.

BedComm streamlines clinical workflow so clinicians can spend more time caring for patients and less time transcribing and manually inputting data.

Streaming Analytics

In partnership with IBM's® TJ Watson Laboratories, Excel has developed Streaming Analytics™, a first-of-a-kind technology for analyzing volumes of unstructured streaming physiological data by integrating its BedMasterEx data acquisition platform with IBM's InfoSphere™ Streams technology.

Medical devices generate thousands of data points per second. This data contains patterns that could help detect severe health events before they happen and form the foundation of predictive care for critically ill patients.

Excel's Streaming Analytics allows clinicians and data scientists to capture and analyze patterns from physiological data allowing faster intervention in avoiding life-threatening events, improved patient safety, better outcomes and lower costs of treatment.

Now with almost 20 leading academic medical centers and children's hospitals deploying its Streaming Analytics platform, Excel has formed the Streaming Analytics Users Group, a community of leading data scientists, clinicians, researchers and industry leaders that meets annually, to change the way critical care and medical-surgical medicine is practiced.

For informations please contact:
bedmaster@anandic.com

PEOPLE WHO CARE. ANANDIC.

EXCEL MEDICAL

ANANDIC MEDICAL SYSTEMS AG
Postfach, Stadtweg 24
8245 Feuerthalen

 info@anandic.com
 www.anandic.com
 0848 800 900


anandic
MEDICAL SYSTEMS