

IQT

Information Systems



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IQT Overview



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What is **IQT** ?

IQT is a modular locating and information system that can:

- ✓ Provide automated real-time location information
- ✓ Support Process Improvement Strategies
- ✓ Seamlessly integrate with many of your existing systems and networks
- ✓ Deliver detailed and customized reporting

Information IQT can collect

- Current & Historical locations
- Time each Caregiver spends with a patient
- Emergency & Personal alarm activation
- Staff response to an alarm activation
- Time entering and leaving an area
- Admission time
- Discharge times
- Patient wait times
- Scheduled equipment repairs
- Time & Attendance



Who Would Use IQT

- **Emergency Rooms**
- **Ward areas**
- **Clinics**
- **Operating Rooms**
- **Pharmacy**
- **Security**
- **Laboratories**
- **Medical Records**
- **Support Services**
- **Long term nursing care facilities.**
- **Finance**



IQT

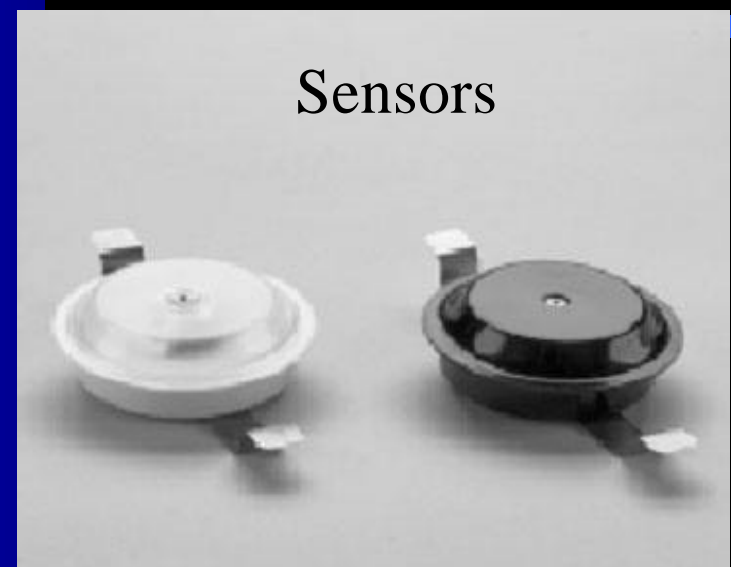
System Operations



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The IQT System

- **IQT** employs small lightweight badges that automatically transmit infrared (IR) and radio frequency (RF) signals containing a unique identification code registered to a person or asset.
- The encoded badge information is received by sensors and receivers, and relayed to a central computer where the information can be used for location, time collection and other applications.



The IQT Sensor Array

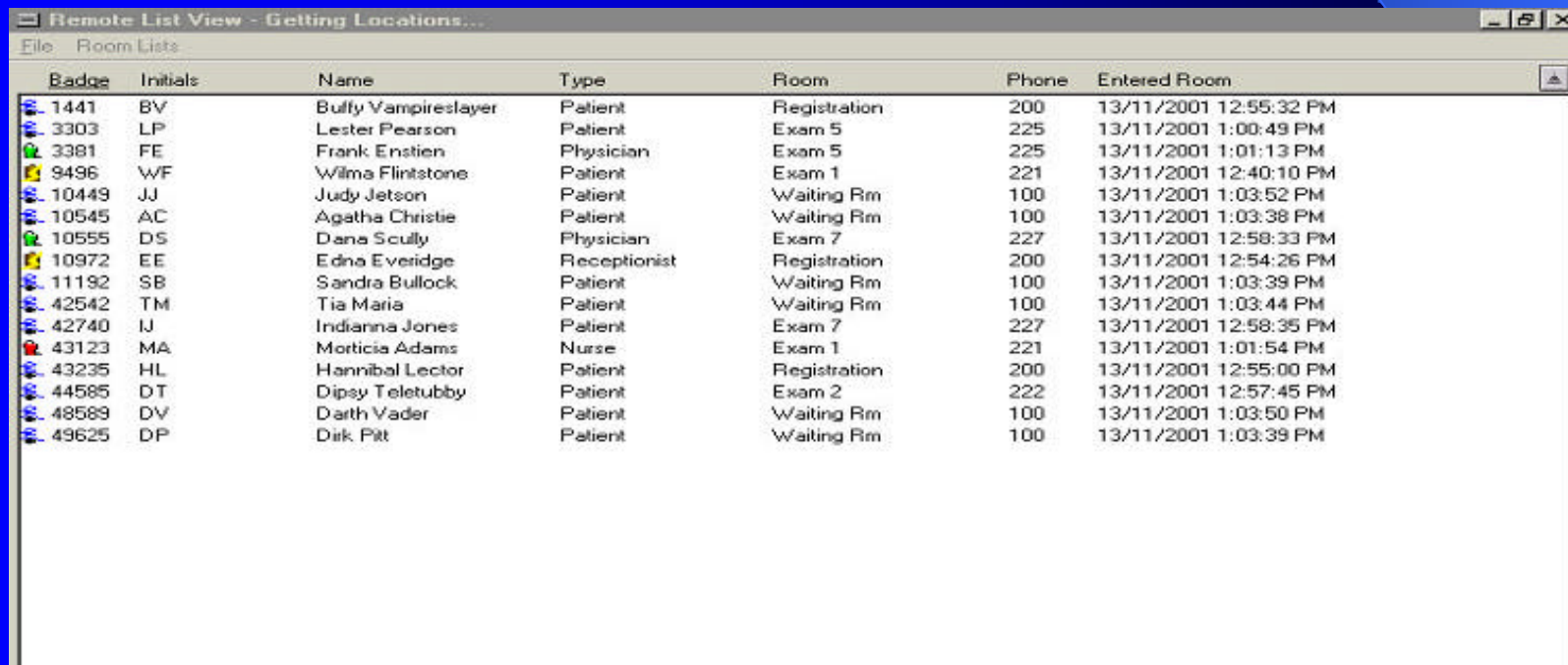
IQT uses a comprehensive network of sensors to ensure a seamless zone coverage :

1. Coded badge transmissions are detected by the sensors
2. Sensor information is decoded by a Collector and transferred to a data server on a LAN, via a concentrator
3. The data server distributes real-time locations and event information to the users



Viewing IQT Information

IQT information can be displayed in many ways. For example, the sorted list view can display in 'real-time': Badge number, Name, Status, Current Location, Time entering a location and the Telephone Extension number at a location.



The screenshot shows a software window titled "Remote List View - Getting Locations..." with a menu bar containing "File" and "Room Lists". The window displays a table with the following columns: Badge, Initials, Name, Type, Room, Phone, and Entered Room. The table contains 18 rows of data, including names like Bulfy Vampireslayer, Lester Pearson, Frank Enstien, Wilma Flintstone, Judy Jetson, Agatha Christie, Dana Scully, Edna Everidge, Sandra Bullock, Tia Maria, Indiana Jones, Morticia Adams, Hannibal Lector, Dipsy Teletubby, Darth Vader, and Dirk Pitt.

Badge	Initials	Name	Type	Room	Phone	Entered Room
1441	BV	Bulfy Vampireslayer	Patient	Registration	200	13/11/2001 12:55:32 PM
3303	LP	Lester Pearson	Patient	Exam 5	225	13/11/2001 1:00:49 PM
3381	FE	Frank Enstien	Physician	Exam 5	225	13/11/2001 1:01:13 PM
9496	WF	Wilma Flintstone	Patient	Exam 1	221	13/11/2001 12:40:10 PM
10449	JJ	Judy Jetson	Patient	Waiting Rm	100	13/11/2001 1:03:52 PM
10545	AC	Agatha Christie	Patient	Waiting Rm	100	13/11/2001 1:03:38 PM
10555	DS	Dana Scully	Physician	Exam 7	227	13/11/2001 12:58:33 PM
10972	EE	Edna Everidge	Receptionist	Registration	200	13/11/2001 12:54:26 PM
11192	SB	Sandra Bullock	Patient	Waiting Rm	100	13/11/2001 1:03:39 PM
42542	TM	Tia Maria	Patient	Waiting Rm	100	13/11/2001 1:03:44 PM
42740	IJ	Indiana Jones	Patient	Exam 7	227	13/11/2001 12:58:35 PM
43123	MA	Morticia Adams	Nurse	Exam 1	221	13/11/2001 1:01:54 PM
43235	HL	Hannibal Lector	Patient	Registration	200	13/11/2001 12:55:00 PM
44585	DT	Dipsy Teletubby	Patient	Exam 2	222	13/11/2001 12:57:45 PM
48589	DV	Darth Vader	Patient	Waiting Rm	100	13/11/2001 1:03:50 PM
49625	DP	Dirk Pitt	Patient	Waiting Rm	100	13/11/2001 1:03:39 PM

IQT Applications



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Locate with IQT

- Staff.
- Patients.
- Wheelchairs.
- Infusion Pumps.
- Beds.
- Stretchers.
- Drugs.
- Drug Trolleys.
- Specimens.
- Medical Records.
- Keys.
- Laptop Computers.
- Audio Visual equipment.



Control with IQT

- Alert staff before confused patients try to leave a designated area
- Control access to restricted areas
- Integrate with existing door control and security systems.
- Prevent unauthorized removal of equipment from an area or building
- Ensure equipment is in the right place at the right time
- Operate automated car parking equipment



Safety With IQT

- Obtain vital information during emergency and evacuation situations, as to who is still in a building and their locations
- Patients and Staff can initiate a request for help or assistance at the touch of a button on a badge. The request can be directed to either a Computer, Pager or Mobile phone, giving the exact location and name of the person who initiated the request
- Confused patients can easily be monitored at all times and an alarm can be activated automatically if they wander into or out of designated areas
- Monitor infection control situations through a review of retrospective location information

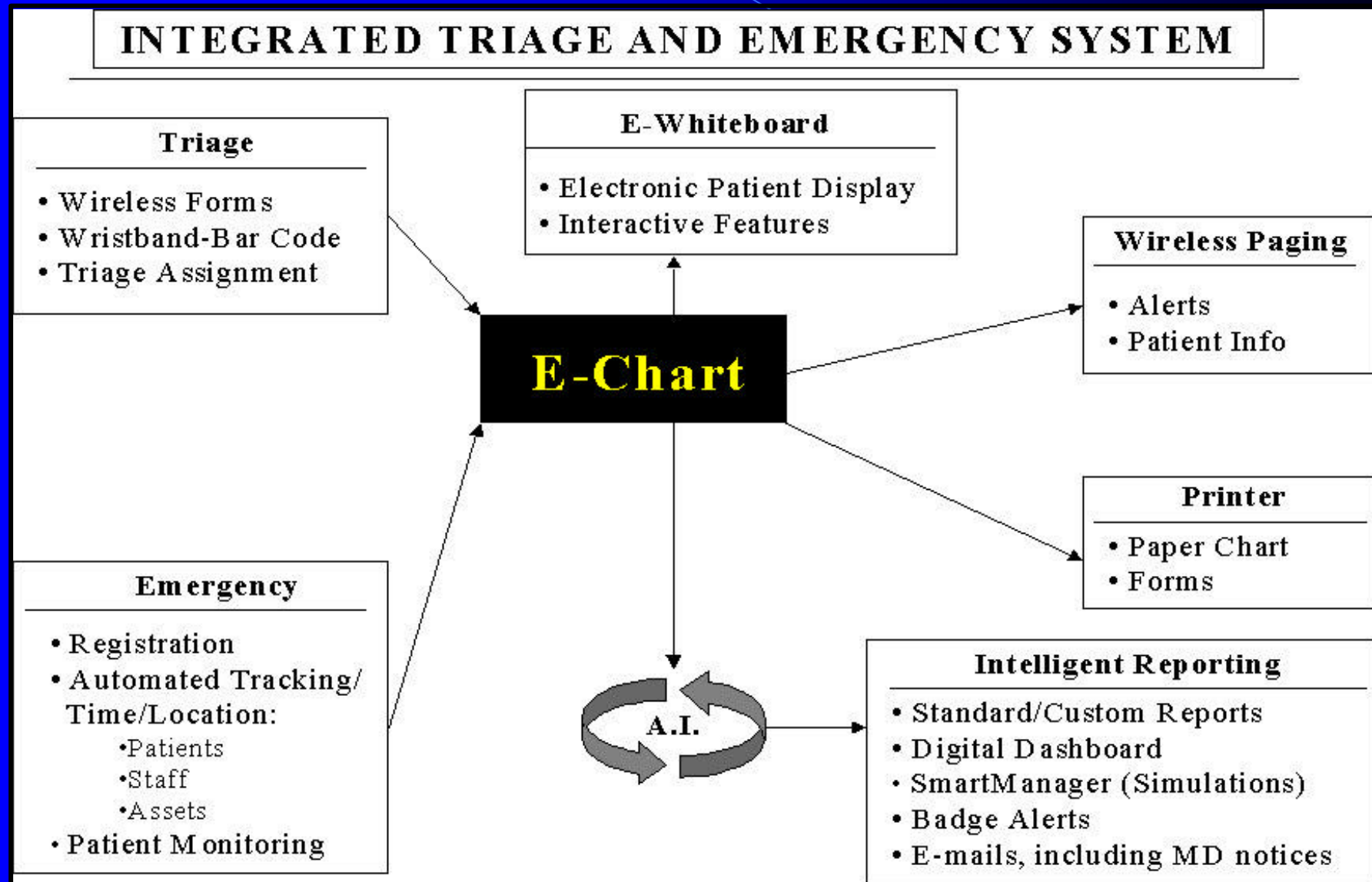
IQT Asset Management

Put a badge on this wheel chair, or other mobile asset, and you will know a lot more about it:

- Where it is
- Where it has been
- How often is it used
- Which department uses it the most
- When was it last serviced
- Send an alarm call if it leaves a building or designated area
- Do you have the right amount of wheelchairs

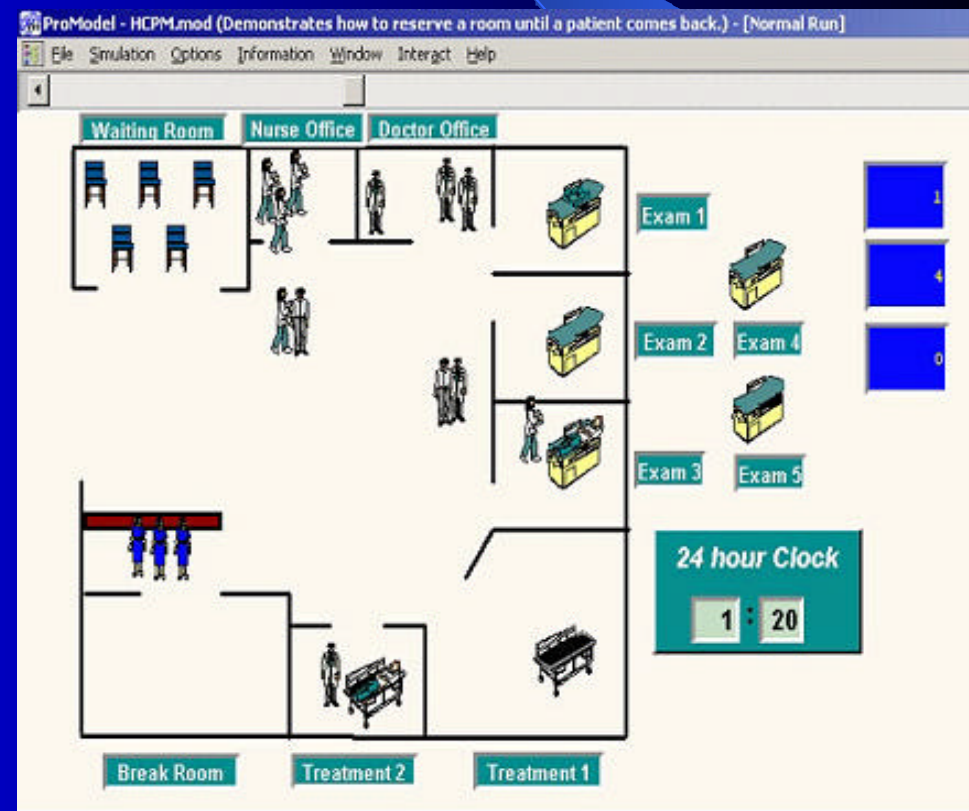


IQT in the Emergency Room



Simulation Input With IQT

- Seamless Integration with Modeling and Simulation Software
- Easy to change user defined Parameters
- Prospective & Retrospective Capabilities
- Automated Data Input
- Real Time Data Collection
- Easy to read Reporting



IQT Summary



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Summary of IQT

- Real Time Locating
 - Make better use of staff time
 - Lets you know where assets are when you need them
- Modular Network Design
 - Allows you to control the growth of the locating system
- Custom Design & Installation
 - Customized to your unique requirements
 - Only add the components you want as you want them
- Emergency Room Application
 - Automated location and time collection
- Automatic Data Collection
 - Easy access to your data
 - Easy to understand reporting output
- Seamless Integration with modeling software
 - Prospective & Retrospective modeling capabilities



IQT

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