



GE Global Research

Home Assurance

*Reducing the stress of
informal caregivers.*

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GE Global Research Team

Steve Azzaro – Lab Manager
Paul Cuddihy – Project Leader
Meena Ganesh
Catherine Graichen
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GE Interlogix

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Kevin Chase



Niskayuna, NY – World Headquarters



Bangalore, India



Munich, Germany



Shanghai, China

Global Research Staff

- 2,100 worldwide (750+ Ph.D.s)
- 12% of GE's R&D staff
- 30% of GE's patent

Technical Disciplines

Chemistry	18%
Mechanical	17%
Physics	9%
Electrical	18%
Computer Science	17%
Other	21%

Global Research Organization



GE Businesses

A diversified technology, manufacturing and services company with a commitment to achieving world leadership in each of its key businesses



***Aircraft Engines
Commercial Finance
Consumer Finance
Consumer Products
Equipment Management
Industrial Systems
Insurance
Medical Systems
Plastics
Power Systems
Specialty Materials
Transportation Systems
NBC***



GE Global Research

- **Expert Tools**
 - Bayesian Belief Networks
 - Learning/Case Based Reasoning Tools
 - Rules Based Systems
 - Alerting



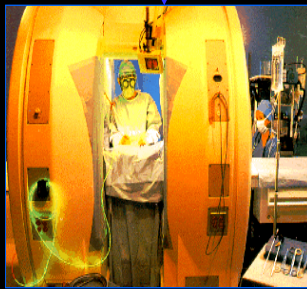
GE Company

- **GE Company RM&D**
 - Over 50 RM&D related patents
 - Over 25,000 Assets Under RM&D Worldwide
 - Developing RM&D Technologies For Nearly 20 Years



Power Systems

- Atlanta, GA



Medical Systems

- Milwaukee, WI
- Paris
- Tokyo



Industrial Systems

- Salem, VA



Aircraft Engines

- Cincinnati, OH



Transportation Systems

- Erie, PA

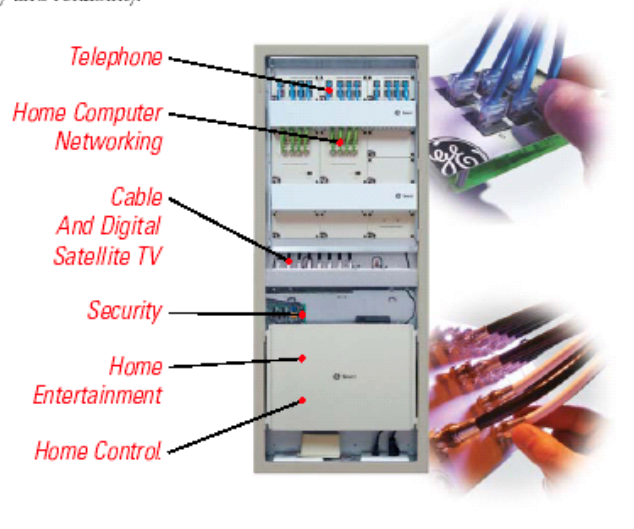
GE RM&D Leveraging Total GE Diagnostics Technology Experience and Over \$100MM of Investments to Date.

Simple As ABC. Reliable As GE.

All of the advanced electronics in your home will work in concert with one solution that's easy to use – and very easy to appreciate. And it never goes out of date because it's ready for any technology the future may bring.

It's brought to you by the company you've always depended on for the finest products. The name GE is your assurance of quality and reliability.

Now is the time to wire your home for today and tomorrow. Enhance your home and lifestyle with the electronic sophistication of ConnectionCenter. You'll be connected to the Digital Age. And you won't want to keep up with the Joneses. Because the Joneses are probably connected to the Stone Age.



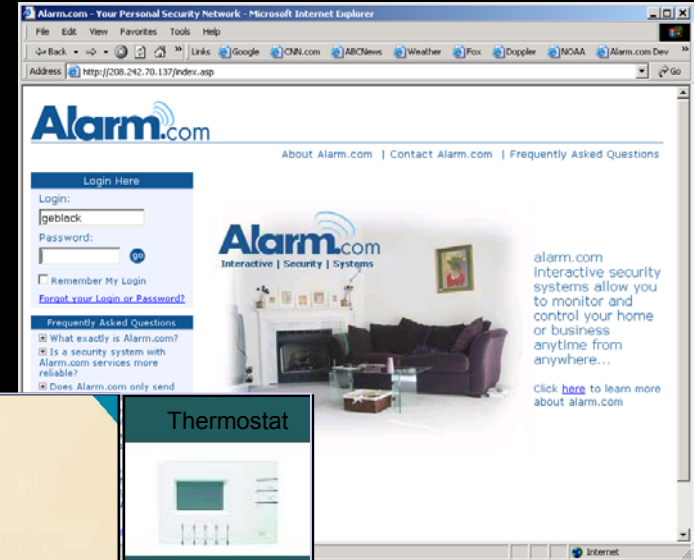
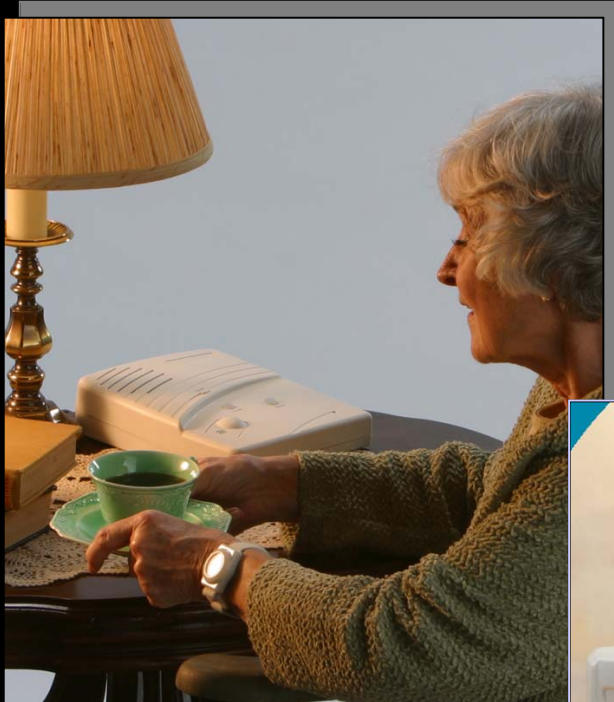
Security & Life Safety

- Security: Residential & Commercial
- Access Control
- CCTV
- Fire Detection
- Residential & Commercial
- Home Automation temperature, energy, lighting AND complete automation integration
- Connection Center Home control network
- Alarm.com (collaboration)
- Caregard Personal Emergency Response

Bringing all the smart home functions under one brand



Security & Caregard





Remote monitoring caregiver

- motion, doors, kitchen
- web interface

Interlogix wireless security

- Wireless sensors and communications
- Cost-effective
- Easy to install
- Tested and accepted



Motion



Usage





Web Interface

GE Research - Interlogix Peace of Mind Study - Home Page - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Links Google CNN.com ABCNews Weather Fox Doppler NOAA

Address http://localhost:8080/peaceofmind/logon.do;jsessionid=To1012mC07937810999066575A

GE Global Research **Peace of Mind**

Help | FAQ | Contact us | Logout

Jun 19, 1:45 PM
Login: 10000080

<ul style="list-style-type: none"> Summary Activity Events Trends Sensors Alerting 	Current	Kitchen
	active since 9:47 AM	at 9:31 AM today
	Sleep	Out of House
	Last night: 10:40 PM - 7:23 AM	yesterday 1:12 PM - 2:04 PM
	Total: 8.7 hrs	yesterday 7:39 AM - 8:37 AM
	Interrupts 1 x - length 4 min	Apr 20 5:52 PM - 7:37 PM

Done Local intranet

Microsoft Internet Explorer

ABCNews Weather Fox Doppler NOAA

Peace of Mind

Help | FAQ | Contact us | Logout

DB: geis_pom

AM
Login: geblack

Contact Information
Phone: 518-387-7340
Email: nanette.monahan@texas.com

Phone Email

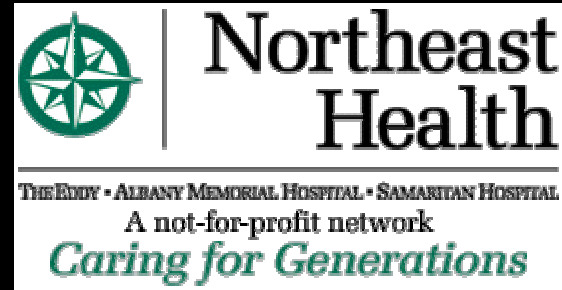
- Notify if daytime quiet for longer than [CHOOSE]
- Notify if exterior door activity between [CHOOSE] and [CHOOSE]
- Notify if out for longer than [CHOOSE]
- Notify if no food access by [CHOOSE]
- Notify if no wakeup between [CHOOSE] and [CHOOSE]

Save Changes

Local intranet



AD Caregiver Study



- 20 early Alzheimer's or dementia
- Living alone in their homes
- Informal caregivers
- Caregiver satisfaction & geriatric depression

Currently Enrolling and Installing



Caregivers of elderly who live alone

Model: paid for by adult children

Residents have given positive response

- nothing extra to do
- no video or audio
- they hand out password to site



- Detecting behaviors and trends
- Cost-effective multi-person monitoring
- Higher granularity activity monitoring
- Effective medication compliance
- Kitchen accident prevention