

its seamlessly into the daily routines

the best solution, for today and tomorrow the best solution, for today and tomorrow its seamlessly into the daily routines of care takers and care givers

the best solution, for today and tomorrow

About us



- Phill Moorcraft responsible for the UK market
- Mathijs de Bruin MD and co-owner





About CLB

- Established in 1981, 35 years of experience
- Dutch, privately owned
- Healthcare (80%) and Security (20%)
- In-house R&D and manufacturing
- 175+ employees in the CLB group
- International presence
- Group turnover 2015 €20 million
- ISO 13485 QMS and MDD CE mark BSI

www.clb.nl/uk









Ensure sustainable growth by providing innovative solutions

that result in complete **customer satisfaction**

for **healthcare** institutions, caregivers and all the people they serve."





What should be the objective for good night care?





What can better night care do for the residents?





Which groups of residents can benefit most from better nightcare?

The Care Management Dilemma

Dynamic needs

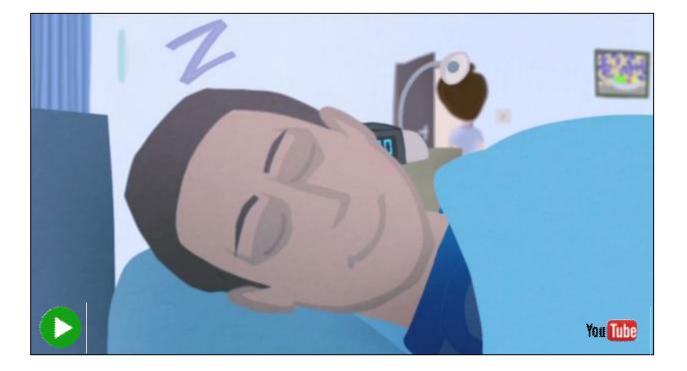


Tailored to individual Adjusted to current need



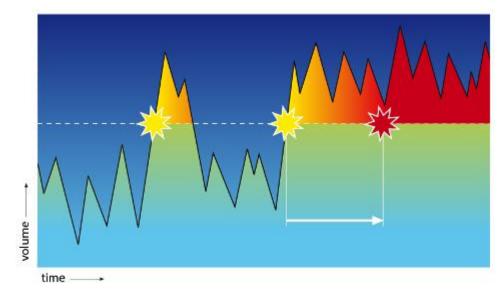
Acoustic Monitoring = Intelligent Nurse Call





Acoustic Monitoring – how do we do it?

- Alarms / notifications are generated based on voice or ambient sounds.
- Adjustable thresholds:
 - Volume level (dB)
 - Duration
- Permanent monitoring by system
 - Additional monitoring cycle higher level of monitoring
- Proven Technology
 - 25 years+
 - technology has a 90% market penetration in NL
 - of which 80% is CLB systems currently on the market



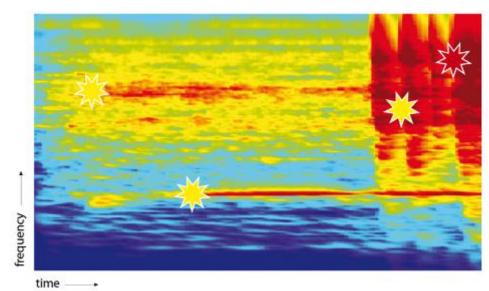


Acoustic monitoring: 3rd generation

Advanced Audio Analytics

- Using state-of-the-art algorithms for Analysis & recognition
- Library of sounds Specific and generic sounds
- Proven technology for detection of aggression
- Additional benefits on top of AM2
 - More focus: Less false positives, less missed positives
 - Quieter environment, improved care quality
 - Useable night and day

New and upgrade for existing systems





CLB's answer to The Care Management Dilemma

A radically differrent approach is required

- Embrace technology as enabler
- Harness state of the art technology
 - IT network technology
 - Mobile communications
- Dynamic systems;
 - Mix and match sensors
 - Adjust sensitivity on the go.
- Facilitate mobility for care giver
- Software is the main driver (80/20)
 - Benefit from updates to stay ahead.







Markets

- Nursing, Residential & Care Homes
 - Elderly
 - Assisted Living
 - Complex Needs

- Dementia
- Learning Disabilities
- 🔹 Autism

From small (7 beds) to

very large multi-site installations (> 10,000 beds)

- Hospitals
 - Secure Units/Mental Health
 - Learning Disability Units







Benefits



Organisation

- Improved Quality of Care
 - Faster response times
 - Continuous monitoring of <u>all</u> residents
 - Better informed
- Business opportunity
 - Better customer proposition
 - Staff more efficient
 - Fast Payback (1 year); high ROI
- Prevention of abuse / risk mitigation

Service Users

- Care when they need it
- Improved Privacy
- Better sleep patterns
 - Improved behaviour
- Better attention







What our customers are saying

TECHNOLOGY WITH CARE

- 🐏 100% uptake
- Residents are happier
- Night care staff is happier
- Reduction in falls by more than 50%
- Reduction in medication
- Payback within 2 years
- Reduction in other assistive technology
- We know so much more about our residents now

³23

Note that to change for the better,

Change management is required



CLB Acoustic Monitoring – Other functions/options

- From single small site (7 beds) to very large multi-site installations (> 10,000 beds)
- Two-way speech
- Alarm event recording
- Nurse Call
- 🥶 Playlist
- IP camera integration
- Action Buttons
- Aggression detection
- Alarm forwarding
 - Smartphones
 - Paging Systems
 - Dect Phones







The CLB system components

- Sensors 223
 - 🖼 AM
 - NC 123
 - Wireless 12
 - Pheripherals
- Network Controller 253
- Monitoring Stations Event Handler (software) \mathbb{R}^{2}
- Smartphone Smart Messenger App 252



► = +8 8









C-Series: Next Generation Modules





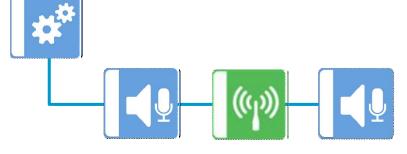
C-Series: Next Generation Modules

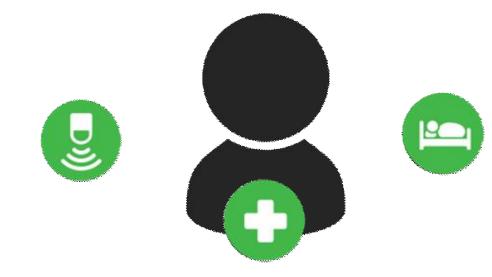




Wireless

- Module on C-Series CAN bus
- Receives signals from third party wireless devices
 - 368 MHz
- 🐏 Dynamic use
- Examples:
 - Alarm pendants
 - Wireless bed mats
 - Wireless motion sensors
- Battery low warning
- Expected 2017 Q2

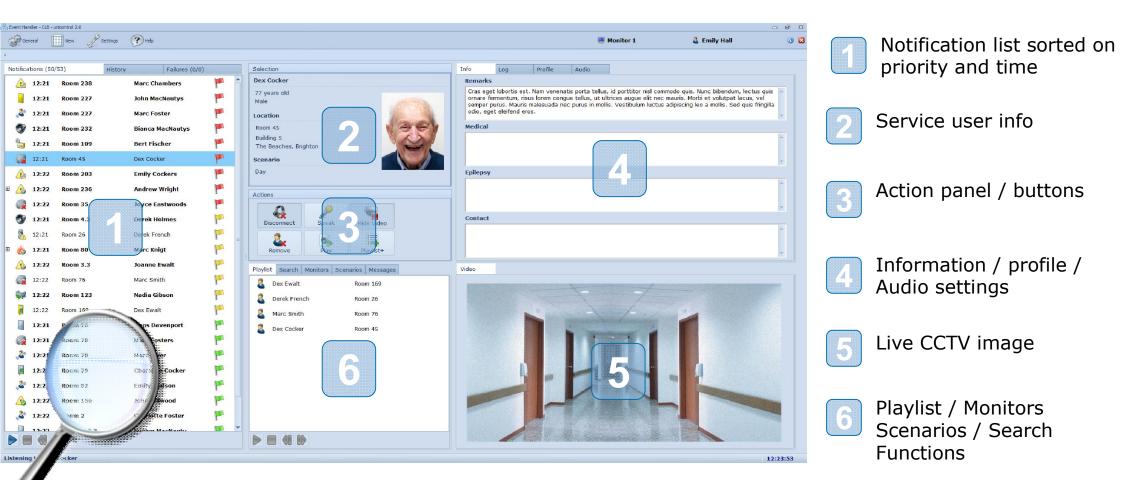






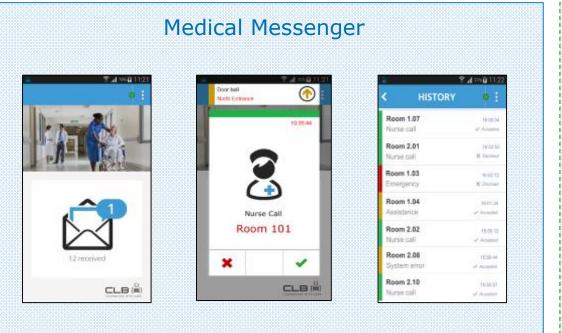
Software – Event Handler



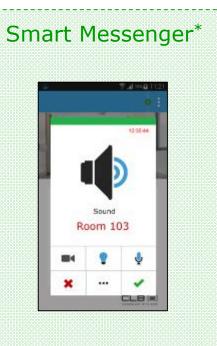


CLB Android Apps





- 🔹 Log in- / off
- Receive / accept / decline notifications
- Historic notification list
- Medical alarm distribution system (NEN 60601-1-8)
- App + S-Serie as a medical device class IIb



- Audio connection
- 👒 Video images
- Control lights
- Open doors etc..

Emergency Messenger



- Positioning
- 🔹 Staff alarm
 - Pull cord / Hardware button / Software button

* Roadmap

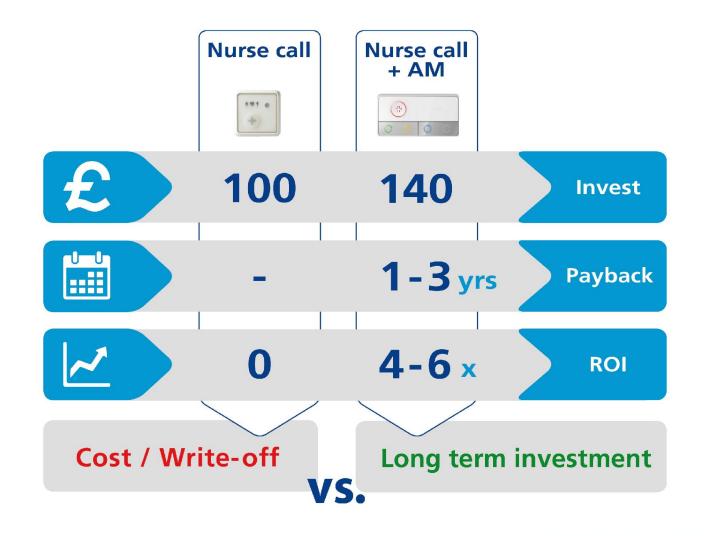
Comparison



	Traditional Nurse Call	Acoustic Monitoring	Video Surveillance
Ability to raise alarm		4	
Effect on resident's sleeping pattern		-	
Effect on resident's privacy	-	.	
Effect on operational costs		.	
Provide care when and where needed		uĝn	din .

Cost or Investment







Spencer Court

"We have a resident who hasn't been able to sleep in his bed for 40 years, he's only slept on the sofa. He now, for the first time, is sleeping in a bed and getting good night sleep because we can monitor him without intruding on his privacy, but also knowing he is safe and well."

"The new system really works. One of our service users who is at risk of falling was heard getting up on the system and we were able to get to her before she managed to get out of bed and potentially hurt herself."

"I feel that the monitoring system is very helpful. During our night shift we can monitor our residents without going into their room. It also helps us and residents as we go into rooms for checking which may disturb them."

Demelza

"Being able to set the sound system to detect the slightest sound – i.e. the onset of a seizure activity has proved very effective."

CLB's Vision : "Improve care by innovation"

Quality - we deliver

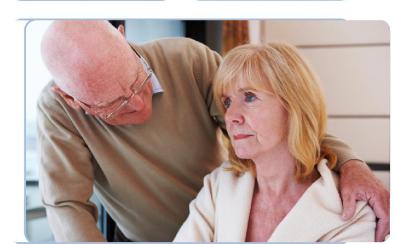
We love what we create and are dedicated to setting the standards.

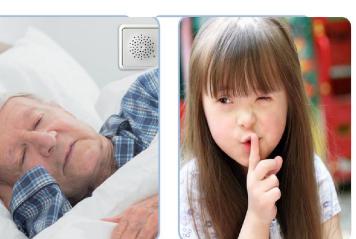
Responsibility - we care

We care about what we do and the people we do it for.

Entrepreneurship - we act

All our employees are encouraged to proactively contribute to making our products and services the best they can be.









CLB – Questions?



