What’s New

Pleased to say we’ve lots of news for you this summer! The smots™ systems have continued to develop and it seems we are getting further and further afield with particular growth in the Middle East. The smots™ Mobile Trolley finds more applications and we’re now totally wireless too. We would really like your feedback on what we do and how we do it? Email me directly or just tweet us @smotslive?

Gordon McLoughlin

The HART Conference 2011

smots™ exhibits at Ambition 2011

The HART Conference 2011 took place at the Telford International Centre in the West Midlands on the 22nd and 23rd of June. This is without doubt the UK’s premier national ambulance service event and is a vital exchange of information and technique for those working in the ambulance and related emergency services.

The event incorporated a large exhibition alongside two important conference streams – the Hazardous Area Response Team (HART) Conference 2011 and the Ambulance Leadership Forum (ALF) Conference 2011 – making it the ideal forum for those working in, or with, the ambulance services. smots™ made a huge impression with the conference debut of it’s wireless mobile capability. Attendees got to see first hand the recovery of an amputee from a tunnel collapse and the recovery and making safe of the body from a chemical suicide. In both cases, the HART teams gave great demonstrations of just how effectively they work in confined or compromised situations and we could show the audience the live feed on the giant screen.

A variety of real life simulations were demonstrated at the HART conference.

Every smots™ sale helps support East Anglian Air Ambulance

smots™ is proud to continue to support the vital work done by the East Anglian Air Ambulance service. The East Anglian Air Ambulance Service is a 365 day a year emergency service across Bedfordshire, Cambridgeshire, Peterborough, Norfolk and Suffolk. It is a charity that is entirely dependent on fund-raising and contributions.

To keep its two air ambulances flying and to provide the advanced medical equipment they carry over £4 million per year has to be raised.

For every single smots™ unit sold Scotia UK plc contributes to the EAAA with a total contribution of £17,500 so far.

To read more about the fantastic work that EAAA do go to: www.eaaa.org.uk

Gordon McLoughlin of Scotia UK plc presents the EAAA with a cheque on behalf of smots™

East Anglian Air Ambulance

Conference Dates for your Diary

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<th>Conference Name</th>
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<td>VASGBI - Annual Scientific Meeting</td>
<td>12th - 13th September 2011</td>
<td><a href="http://www.vasgbi.com">www.vasgbi.com</a></td>
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<td>PCICS</td>
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<td>ASPH</td>
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<td>Gastroenterology Conference</td>
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<td>2011 Educational Excellence Conference</td>
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With each issue of the newsletter we will try and bring you all the latest information on new products in the SMOTS range or any little items of note from the world of medical simulation.

If you have anything you feel would be newsworthy please let us know and we will consider it for inclusion.

enquiries@smots.org
www.smots.org
@smotslive on Twitter

The smots™ PackNgo

for the clinician on the move

The smots™ PackNgo carry on bag is the ideal way to take smots™ to where you need it. The bag contains all the elements of a full smots™ MobileTrolley so all you need is somewhere to locate the camera, loudspeaker, and microphone in your temporary setup.

Safe and padded storage makes the whole kit safe for trips as hand luggage or in a car but we’d recommend some extra outer packing if it is to survive baggage handling! We recently took one to Germany on easyJet as hand baggage, even taking the chance to try some clip on wheels for the long airport walks!

PackNgo

- 2 x smots™ SC701 boxes (one for camera, one for patient monitor)
- 1 x Loudspeaker
- 1 x PTZ camera
- 1 x Microphone
- 1 x VGA splitter
- 1 x Network switch
- Interconnecting cables (plus room for your 15.6” or smaller laptop too)

smots™ trolley tablet shelf accessory

puts instant camera adjustment at your fingertips

Sometimes the users of a smots™ system need to adjust the camera on the spot. The tablet PC with touch screen is ideal for these situations. You can see what everyone else is watching and you can click and drag the camera as needed. The shelf is removable for storage. It can all be wireless too, even recording to the tablet if you’re off the main site! The tablet will fit neatly into the internal pockets of the PackNgo bag.

The new smots™ Recorder

all the power of its predecessor but half the size

smots™ Recorder is our latest product release. It now records 25 streams continuously giving thirty days or more storage for every camera. It’s half the size of the previous version taking up only 1u of rack space. We’ve also managed to reduce the price meaning the recording cost per stream is about half what it was. You might want to consider using more of them to maintain your library for longer periods of time, or just be pleased that you can let the IT department have another ‘u’ or two of their rack space back. Whichever way you look at it, the smots™ Recorder is costing less than ever.

The tablet rests on a custom built shelf for the trolley

The new recorder just the latest addition to the smots portfolio
smots™ goes global
worldwide product adoption

smots™ can now be said to be truly global with installations as far afield as:
Germany, Finland, The Netherlands, Malta, Saudi Arabia, Chile, Malawi to name but a few locations.

smots™ Middle East expansion
gathers momentum with Saudi Arabia project completion

The expansion and acceptance of smots™ as a vital resource for the modern clinician has made a significant leap forward with the announcement of a deployment of 25 smots™ systems to the King Abdulaziz University Hospital in Saudi Arabia.

For the past twenty two years, Beta Scientific has been a leading supplier of basic and advanced life support training solutions, medical training and simulation products and emergency medical equipment and Scotia UK is delighted to have formed a strategic partnership with such an experienced and respected company. Working with Beta Scientific as a recognised nationwide leader in the field of emergency care products the smots™ system is sure to be a significant addition to their portfolio.

Mohamed Elhila, CEO, said: “We’re delighted to be working with smots™, having been introduced by Laerdal. It’s a great product and we like the ethos of Scotia UK plc and the like minded approach they have to helping healthcare users perform better through the use of great technical solutions.”

Earlier in 2011 we saw smots™ spread its wings even further afield with its very first shipment to Ardiya in the state of Kuwait, north-east of the Arabian Peninsula in Western Asia bordering Saudi Arabia.

smots™ arrives in Malta
flexible operation/simulation environment

We recently completed a new dual purpose simulation centre with Technoline of Malta. Nicky Sammuz, CEO, contacted us as the Laerdal distributor for the area and we were delighted to extend our partnership program to include his long established company.

The hospital wanted to create a simulation environment in an operating theatre but with the prerequisite that the theatre could be returned to live clinical use immediately at any time! Easy enough with smots™ as our cameras are all connected on the network and can be viewed by whoever needs them with appropriate password rights.

The installation was completed in a few days and without a hitch. With 4 permanent cameras, a mobile camera, and a vital signs feed, they have a fully functional system capable of dealing with all types of scenarios yet can still have a live functionality straightaway when needed.

Stornoway
Dental Training facility in the North of Scotland links remote sites

From the ‘relative’ heat of the Mediterranean to the cooler, and occasionally wetter air of the Outer Hebrides! The smots™ systems have been in use for some time in Inverness and Aberdeen, with links to Dumfries. The client wanted to equip a new dental training facility in Stornoway with smots™ too meaning that courses could be run from Inverness and viewed and communicated with from the various other locations.

Over the years we have equipped many (most?) of the UK dental training labs with our camera and video distribution systems and smots™ has allowed us to continue that development across the physical and geographical boundaries which previously meant lots of travel and inefficient use of resources.
smots™ Simulation Centre Solutions

If you suddenly find you have to create a simulation centre and possibly within a restricted budget, you’ll probably firstly ensure you have your mannequins. Then you’ll look at the room layout(s). Then you’ll consider how you will watch and record the scenarios?

All the manufacturers (Laerdal, Meti, Gaumard) have their own video solutions which are a great ‘starter pack’ but you’ll find they all work with smots™ when it comes to serious requirements.

Our systems are fully compatible and it’s what we do, and do well! We can help with selection and location of cameras, vital signs feeds (so you can watch the patient monitor simultaneously with the live video), the all important microphones, and of course the control room.

We can supply and commission the necessary displays, even our new projection solution which will finally give the quality and brightness of LCD/Plasma displays, but BIGGER.

The advantages of simulation

- Ethically sound
- Cost effective
- Less personnel required
- Ability to store performance history
- Track global statistics for many linked medical simulators
- Safer form of training

PRODUCT PORTFOLIO
Fixed Solutions

This illustrates a typical simulation centre with control room, role play room, debrief room and a further training room. All rooms have cameras, microphones and loudspeakers for 2 way communications as indicated.

smots™ Fixed Camera Solutions

The smots™ cameras fit neatly to your ceiling, often using our semi permanent grid mounts which allow repositioning when needed. The associated microphones and loudspeakers all connect to the smots™ SC701 box at the ceiling and this then converts all the information to network traffic for distribution to viewing and control computers.

We normally suggest two or three cameras for a simulation ‘theatre’ with an additional feed to take the vital signs information from the SimMan or iStan. The Control Room will have a laptop or dual screen desktop PC and if you wish, we can put in an additional Patient Voice link for you.

Mannequin suppliers don’t usually do wiring so we’ll do that for you too! Finally, you’ll want walkie talkies with earpieces for the ‘plant’ or ‘stooge’. Once we’ve done all that, we’ll fit out your debrief room with the best display and audio, given the room size and audience numbers.

The whole solution for a typical simulation centre could cost less than you think.
smots™ Mobile Trolley Solution

We’ve had astounding success with the smots™ MobileTrolley. It has all the advantages of the fixed systems in terms of camera, loudspeaker, microphone, but then add in its complete portability, its height adjustment between 1.45m and 2m, and the extras like a 10m microphone extension and a patient voice extension, and you have a great low cost solution.

smots™ Mobile Trolley Solution with Vital Signs

Given all the benefits of the standard trolley, the SC737VS offers an additional input (or inputs) for connection of the vital signs feed from a patient simulator, or for theatres, the direct video feed from the OR system. We often connect to endoscopes or light cameras for live relay of operations to theatre audiences elsewhere. With the smots™ trolley, you can be in theatre showing an overview and a detailed operating shot, within minutes of setup. The battery version of the trolley will let you work for 4 hours completely wire free if you wish.

smots™ PackNgo

Travel Solution

So, we have lots of customers using smots™ in fixed and mobile situations but sometimes they need to take smots™ on a plane, or in a vehicle, to another location. We developed smots™ PackNgo to meet this need. It is essentially everything you would have with a trolley except the trolley. Camera, microphone, loudspeaker, cables, network switch, and vital signs feed, all in a bag which will ‘carry on’ as hand luggage with most airlines. There’s even room for up to 15.6” PC too.

smots™ PackNgo: (SC739)
Travel Solution

smots™ PackNgo: (SC739vs)
Travel Solution complete with Vital Signs hardware

smots™ PackNgo: (SC739XX)
Travel Solution complete with Tablet PC
smots™ Optional Extras and Upgrades
how to build a complete system for every scenario

Desk PC System (SC528, SC529)
We use and recommend Dell Optiplex pcs. Sometimes it’s useful to have dual screens and we use Dell for these too.

Laptop System (SC5xx)
The Dell Vostro is a great laptop pc and big enough in it’s 17” form to replace a desktop pc if necessary. It will be preconfigured by our team so that it is ready to go when we supply your smots™ system.

Tablet PC (SC5xx)
10” Display touch pc tablet to allow local control on the smots™MobileTrolley

4 Hour Battery Pack (SC555)
Finally, the complete solution to work wirelessly with simulators like SimMan3G. Four hours of completely wireless operation and in line charging mean no difference to operation whether wired or wireless.

Wireless Transmitter (SC5xx)
The smots™MobileTrolleys come with a standard wireless unit for use when talking to a local laptop. Additionally for hospital networks, we provide the Cisco wireless unit favoured by most trusts for DHCP use around the hospital site.

Wide Angle Lens (SC534)
This screw on lens adds another 15 degrees to the viewing angle for filming in very small rooms. It is now possible to get the smots™MobileTrolley into a toilet cubicle, or in the back of an ambulance.

Walkie / Talkie Kit (SC534)
The Motorola walkie talkies with earpiece allow you to communicate privately with your ‘plant/stooge’ in the scenario without others being aware of the conversation.

Clip-on Tablet Shelf (SC5xx)
Clear support shelf for tablet pc. Can be removed for storage. Larger version available for 15.6” laptop.

Headsets (SC534)
Sennheiser headsets provide excellent audio quality for communication with the scenario participants.

Simulator Links (SC5xx)
We’ll provide the vga, usb, audio, links between your simulator and the control room desk.

smots is a constantly evolving product as we continue to add important features to further aid our world wide user base
smots™ Control Center Software
Now makes it easier to control your cameras

The smots™ Control Center software makes it easy to control cameras, communicate with the scenario participants, review recordings instantly, and even bookmark live and recorded events for quick replay in the debrief.

It is regularly updated and we’ll happily install the latest version for you if you contact us.

smots™ Exporter Software
Create automatic exporting with the latest version of software

If you find that you have too many participants looking for ‘their’ clips straight after scenarios, you might like the new smots™ Exporter package. It allows you to create automatic exporting of student clips by them simply logging in to start the scenario and then logging off to end it. That process will create the export file(s) and send them to the student’s network storage location. Any number of participants can do this simultaneously and the login would usually be the student’s own network login. Please ask for more detail and tell us what you’d like to be doing with the software?

The smots™ System used as a Black Box Recorder
The perfect way to record a detailed scenario of events

You get on a plane and you expect that should the worst happen, there will be a black box recording the events? It is now becoming realistic to expect the same when selecting an operating theatre. To expect that for your safety and that of the theatre staff, there is a video (and audio) recording of the operation.

To know that when things go well, or very occasionally not so well, there will be a record of events that can be used afterwards to learn from and to ensure improvement in mechanisms and procedures.

The smots™ system is already installed in hospitals in a dual purpose role. It is there to provide a means by which surgeons can share their procedures with colleagues but it is also there so that for example, sitting in the surgeons’ rest room, they can see instantly if a patient’s vital signs change. It is there so that if an unusual event occurs, it is recorded in high quality so that it can be examined at a later stage. It is there for your safety, the clinicians’ safety, and for enhancement of future procedures.
smots™ - a typical user experience

“Using patient simulators in healthcare education at Homerton allows us to create a safe and realistic learning environment. We can manage realistic scenarios without the risk of causing harm to patients, simulate everyday situations, re-create untoward incidents to learn from them or allow participants to experience scenarios that do not occur frequently or ‘on demand’ in practice. smots™ has been an invaluable asset to the centre allowing us to undertake effective debriefs and review through video playback of behavioural and human factors.

We aim to create the right systems, processes and learning opportunities that help create a culture where learning and development is accessed by all and seen as an important component of people and organisational development. Support is always on the end of the telephone with friendly staff offering instant help and advice.”

Val Dimmock MA (ed) RN, Simulation and Clinical Skills Facilitator
Homerton Hospital NHS Foundation Trust (The Homerton is the designated hospital for the 2012 Olympic athletes)

smots™ reference sites of medical and research facilities

- St Thomas’ Hospital, London
- Guy’s Hospital, London
- King’s College Hospital, London
- St George’s, University of London
- St Mary’s Hospital, Paddington, London
- Barts and The London
- University College Hospital, London
- Forth Valley Royal Hospital
- Teesside University, Middlesbrough
- Northumbria University, Newcastle upon Tyne
- University of Wolverhampton
- University of Worcester
- Newcastle University
- University of Hertfordshire
- Cardiff University School of Medicine
- Manchester Hospitals
- Imperial College, London
- Hull Hospitals
- Royal Hospital For Sick Children, Bristol
- Royal Hospital For Sick Children, Edinburgh
- Ambulance HART, Hazardous Area Response Teams
- Dasman Diabetes Institute, Kuwait
- Arcada University, Helsinki, Finland
- RAVU / METS, Netherlands
- ISIMED University Hospital Dresden, Germany
- University of Dundee
- University of the West of Scotland
- Oxford Brookes School of Health and Social Care
- Robert Gordon University, Aberdeen
- Queen Elizabeth Hospital, Gateshead
- Sunderland Royal Hospital, ICCU
- Freeman Hospital, Newcastle Upon Tyne
- South Tyneside District Hospital, Tyne and Wear