Unique Device Identification Webinar 14

Invited guest speakers from Zebra Technologies will present on the UK Scan4Safety pilot



Michelle van Wijk UDI Project Manager, TGA



Brett Newstead Zebra Technologies Corporation





Australian Government Department of Health and Aged Care Therapeutic Goods Administration

18 October 2022

Acknowledgement of Country

I would like to acknowledge the Traditional Owners and Custodians of the lands on which we meet today and pay my respects to Elders past, present and emerging.

I would like to extend that acknowledgement and respect to any Aboriginal and Torres Strait Islander peoples here today.

Agenda

Project Update

Special Invited Guest Presentation - Brett Newstead from Zebra

Questions and Answers



Therapeutic Goods Administration – tga.gov.au

Sandpit Update (as at 17 October 2022)

Registrations	364 (from a mix of sponsors, manufacturers, software providers, healthcare and TGA staff)
Users	362 users with Sandpit access
Records	77 UDI records created (using portal and bulk upload)
Calls Emails	220 398
Sandpit Updates	 4 updates to fix errors and introduce enhancements Next update is being finalised and includes: Fixes to bugs identified by Sandpit users and testing Enhancements for mobile users Enhancements to process of adding packing information Revisions and corrections to rules for Secondary, Previous and Direct Marking DI's Revisions to bulk upload template

Regulatory framework



Consultation 3 closed on 11 October 2022

We are in the process of reviewing the responses and the feedback will be provided to the Government for a decision and implementation of the regulatory framework



Collaboration and engagement



Technical Working Group is meeting regularly Monthly webinars continue 'Sandpit' remains open

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Therapeutic Goods Administration – tga.gov.au



Capturing the power of Unique Device Identification, UDI

With fewer workarounds, there's more time to care

Brett Newstead, Zebra Technologies 18 October 2022

Agenda



- Introduce Zebra Technologies.
- Unique Device Identification.
- Key Healthcare technologies.
- UK Scan4Safety.
- Australian case studies.
- Why UDI is more important than ever.
- Conclusion.



Introductions





Brett Newstead is Director of Sales with Zebra Technologies. In this role, he advises healthcare, retail, transport, logistics and manufacturing providers on how secure purpose-built mobile and tracking technologies empower front line workers and provides operational visibility for improved safety and operations. He has a Bachelor's Degree in Mechanical Engineering and Computing from Monash University. Brett is based in Melbourne at Zebra's Australian headquarters.



Wayne Miller is the Director of the EMEA Healthcare Practice for Zebra Technologies. Working with both partners and end users, Wayne assures that Zebra delivers the latest solutions that assist hospitals and healthcare organizations deliver ever-greater efficiencies and improve patient care and outcomes. Wayne was educated at both the University of Central Lancashire and at Preston College. He based near Liverpool.



Johnny Ong is the APAC Healthcare Practice Leader for Zebra Technologies. In this role, he advocates for the role technology plays in improving the quality, safety, and efficiency of patient care and for the value of unifying global best practices to improve healthcare across the Asia Pacific region. He is a Registered Nurse with a Bachelor's in Health Science – Nursing from the University of Sydney. He is also a Graduate from Harvard Business School in General Management. Johnny is based in Singapore.

Zebra Technologies

A global leader in purpose-built front-line worker and asset visibility solutions



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About Unique Device Identification (UDI)¹



- The unique device identifier (UDI) is a series of numeric or alphanumeric characters that is created through a globally accepted device identification and coding standard, and applied to a specific model of medical device.
- It is comprised of both device information and production information, and is applied to the device label and all levels of packaging for that device in both machine readable (such as a barcode) and human readable forms. It allows the unambiguous identification of a specific model of medical device on the market.
- It is used as the 'access key' to information stored in a UDI database and is the data that allows the linking of device information across other systems such as registries, and in patients' My Health Record.
- When the UDI system is fully implemented, the label of most devices will include a UDI in both a human and machine-readable form (such as a barcode). Globally harmonised, core data about those devices will be publically available through the Australian UDI Database (AusUDID).

More on "Unlocking the Benefits of UDI" at https://www.youtube.com/watch?v=levy8quH6OI.

^{1 =} Therapeutic Goods Administration.(30 June 2021) Unique Device Identification system: Strengthening patient safety. Retrieved from https://www.tga.gov.au/how-we-regulate/manufacturing/manufacture-medical-device/unique-device-identification-system/unique-device-identification-system-strengthening-patient-safety.

UDI Solutions Are Extensively Used Across Multiple Industries Today

- Uniquely Identify Manufactured products using a GTIN, Global Trade Item Number
- Providing supply chain visibility
 - Global / local movement of bulk/palletized or individual products.
 - Warehouse operations receiving, putting away, picking and dispatching.
 - eCommerce parcels ordered online and delivered to the doorstep.
 - Inventory delivered to retail store shelves and scanned at check out



GTIN-13

(EAN / UCC-13)

GTIN-14 (GS1-128 or ITF-14)

GTIN-12

(UPC-12)





GTIN-8

(EAN / UCC-8)

Key Healthcare Technologies



Positive Patient Identification

Clinical Mobility

Tracking and Locationing

Patient Identification Solutions



Specialty Printers	Wristbands	labels Scanning	Scanning	Mobile Computers
ZD510-HC ZD620-HC ZD420-HC	Z-Band & Laserband	Barcode RFID IQColor	DS4600-HC DS8100-HC CS60-HC DS9900 HD	DS4600-HC TC26-HC TC52-HC



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Key Healthcare Technologies



Positive Patient Identification



Clinical Mobility

Tracking & Locationing

Clinical Mobility Solutions









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Key Healthcare Technologies



Positive Patient Identification



Clinical Mobility

Tracking and Locationing

Tracking and Locationing Solutions



RFID Supplies

Printable RFID Labels Patient ID Wristbands Motion Works Healthcare and Real-Time Intelligence TC52-HC RTLS Sensor Tac

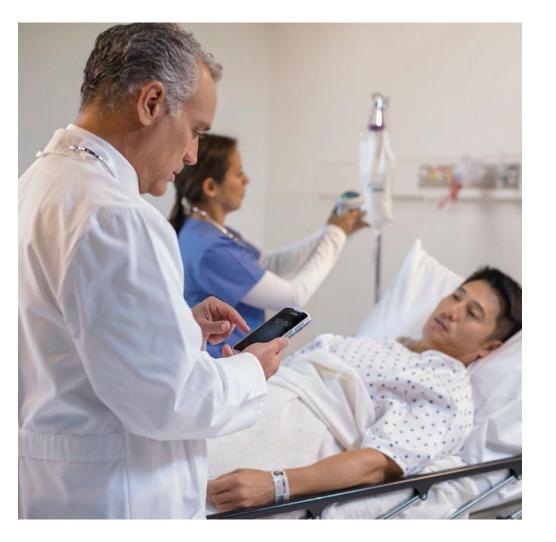
TC52-HCRTLS Sensor TagsFX7500Fixed RFID AntennaRFD8500ZD500RRFID SledRFID Printer



UK NHS Scan4Safety Program

A Proven Approach To Harnessing the Power of Unique Identifiers and Digitisation

- Investigate how consistent use of point-of-care scanning might improve efficiency and safety within the NHS
- Scanning People, Products, Places and Process to test the benefits of digitisation via the use of globally unique identifiers from GS1
- Six UK National Health Service (NHS) Trusts served as demonstrator sites
- Conducted over 2 years





UK NHS Scan4Safety Improve efficiency, auditing and safety

- **Patient safety:** Enhancing patient safety through complete traceability, speedy and accurate recall, reduction of drug error and "Never Events", and improving routine observations and patient identification.
- **Trace patients and their treatments.** Supporting clinical decisions and ensuring the right patient receives the right treatment, the right drug or the right blood, at the right time.
- **Monitor the effectiveness of their equipment.** Global Location Numbers (GLNs) allow traceability of patients, equipment, care teams, and accurate communication.
- **Manage medical supplies**. Restocking supplies and medications based on usage and not presumptions. The right product, in date and in stock.

GS1 UK's analysis of Scan4Safety's results are instructive on the program's benefits and can be found at https://healthcare.gs1uk.org/scan4safety/gs1_uk_a_scan_of_the_benefits_report.pdf.



B C Sign in Home News Sport Reel Worklife Travel NEWS Home | War in Ukraine | Coronavirus | Climate | Video | World | US & Canada | UK | Business | Tech | Science Health | Coronavirus Breast implants and other medical

Breast implants and other medical items get safety barcodes

③ 29 December 2016



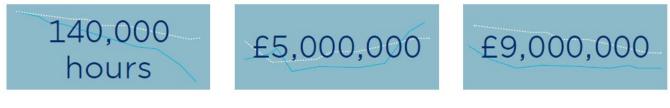


Barcodes are being printed on breast implants and other medical items for patient safety reasons.

The Department of Health initiative is to avoid future scandals like the <u>PIP</u> breast implant scare of 2010.

UK NHS Scan4Safety Key Outcomes

Among the headline findings:



140,000 hours of clinical time have been released to care Recurrent inventory savings worth nearly £5m across the six trusts

Non-recurrent inventory reductions have amounted to £9m



At Leeds Teaching Hospitals NHS Trust, the average time taken for product recalls has fallen from 8.33 days to less than 35 minutes following the introduction of Scan4Safety. The organisation estimates it will save £84,411.07 each year on such recalls



By introducing scanning in pharmacy, Royal Cornwall Hospitals NHS Trust reduced prevented-error rates by 76 per cent, including elimination of all errors caused by wrong patient, wrong drug, wrong dose and wrong form





UK NHS Scan4Safety - Key Insights & Outcomes Wayne Miller, European Healthcare practice lead







Australian Case Study – Scanning blood bags Johnny Ong, AsiaPac Healthcare Practice Lead



SUCCESS STORY THE ROYAL CHILDREN'S HOSPITAL, MELBOURNE





SUMMARY

Customer The Royal Children's Hospital, Melbourne

Industry Healthcare Challenge Update scanning technology

and increase the efficiency of the barcode-based blood scanning process

Solution Zebra DS8100 Handheld Imager with custom 123SCAN software

Results - Significantly increased staff satisfaction and reduction in stress - Increasing scanning speed by approximately 50% - Increased patient safety



The Royal Children's Hospital Improves Patient Safety With Accurate Scanning Of

The Royal Children's Hospital Melbourne (RCH) has provided specialised paediatric care for over 150 years. As one of Australia's largest children's hospitals, the RCH has a staff base of more than 4,000 employees who provide a full range of clinical services and care to patients. The hospital is the designated major trauma centre for children and adolescents in Victoria and a national centre for cardiac and liver transplantation. In 2019-20, more than 46,800 children were admitted into RCH wards, and over 15,000 surgeries were performed.

The RCH brings together six levels of clinical, research and education facilities over 200,000 square metres within the 41-bectare site in

The hospital's primary focus is delivering the highest quality care to all its patients and to provide Great Care, Everywhere. When the

RCH became aware of opportunities to enhance their blood scanning

processes, they approached Zebra Technologies to create a custom

The hospital's blood bags are labelled with an average of 10 different

barcodes, each used for a different purpose and serving a specific

function. Having multiple barcodes is critical to ensure that the right

The barcodes scanned by clinicians are registered into the hospital's

Electronic Medical Records (EMR) system. This process ensures the

blood bag matches the sample collected from the patient receiving the transfusion and provides a clear audit trail in the event of an error. However, these barcodes must be scanned in a particular sequence, to ensure the data is registered correctly into the EMR.

blood is delivered to the right patient, at the right time.

Blood Products

Parkville, Melbourne.

Challenge

solution.

Video: <u>https://www.zebra.com/ap/en/resource-library/success-stories/rch.html</u> Case study: <u>https://www.zebra.com/content/dam/zebra_new_ia/en-us/solutions-</u> verticals/vertical-solutions/healthcare/success-stories/healthcare-success-story-rch-en-au.pdf ZEBRA

Australian Case Studies – Prospitalia h-trak

h-trak decodes industry standard barcodes to accurately identify products used in hospitals, particularly departments where surgical and interventional procedures are performed.

When combined with other data captured in the system, h-trak provides a rich source of procedure information, including the procedure costs.



"Prostheses and patient billing – 8 hours reduction in processing time – savings of \$1.2 million per annum"



"Revenue for prostheses billing pre h-trak
~ \$3.8 million – post h-trak ~ \$5 million =
30% improvement and counting"



"Improved revenue for prostheses billing by \$6 million per annum (\$3m -> \$9m)"



Finally, UDI is more important than ever as protecting the well-being of nurses and frontline healthcare workers is essential

Nurses create 27 workarounds each shift¹

Nurses spend 21 minutes per shift hunting down equipment²

80% of physicians are at capacity or overextended³

For every hour clinicians spend with patients, they spend nearly two hours documenting⁴

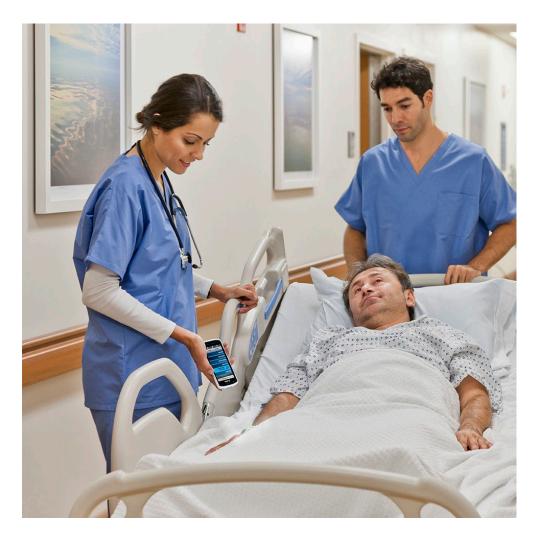
- ¹ Source: <u>Nurse Innovation: Saving the Future of Healthcare |</u> Rebecca Love | TEDxBeaconStreet, 2018
- ² Source: GE Healthcare, 2012
- ³ Source: The Physicians Foundation, 2018 survey of America's physicians: Practice patterns & perspectives, September 2018
- ⁴ American Medical Association: Annals of Internal Medicine, 2016

ZEBRA

Building Digital Health for Australia's Future

- UDI is based on global labelling standards
 - recognized and accredited product ID standards.
- Positive digital identity is the foundation for:
 - Patient safety
 - Fewer workarounds
 - Reducing frontline nursing fatigue
 - Improved care
 - Lower costs
- Purpose-built, healthcare-grade technologies provide the optimal method for capturing these benefits.





More on "Unlocking the Benefits of UDI" at <u>https://www.youtube.com/watch?v=levy8quH6OI</u>.

Thank you

Contact Information ...

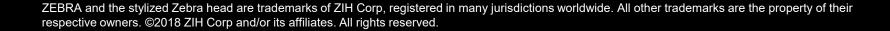
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Questions and Answers



Therapeutic Goods Administration – tga.gov.au

Website and link references

UDI hub	https://www.tga.gov.au/how-we-regulate/manufacturing/manufacture-medical- device/unique-device-identification-udi-system	
Third UDI consultation paper	Consultation: Detailed considerations for implementing the proposed Australian medical device UDI regulatory framework Therapeutic Goods Administration (TGA) *Closed on 11 th October	
Second UDI consultation paper	https://www.tga.gov.au/consultation/consultation-exploring-options-introduction- australian-unique-device-identification-udi-system	
First UDI consultation paper	https://www.tga.gov.au/consultation/consultation-proposal-introduce-unique-device- identification-udi-system-medical-devices-australia	
Previous webinars	Unique Device Identification system: Communications and stakeholder engagement Therapeutic Goods Administration (TGA)	

Questions and Answers



Michelle van Wijk UDI Project Manager, TGA



Brett Newstead Zebra Technologies Corporation





Australian Government Department of Health and Aged Care Therapeutic Goods Administration

18 October 2022

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Therapeutic Goods Administration – tga.gov.au

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