

# Techshare-Pro Conference November 2018

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# A little audience experiment

SEVP

Storm ATP

KMA

KMA ADA Committee

USAB

ANSI, ADA, 508, ACAA

CoP for KMA

New draft ANSI for ICT

TFLA Decoding.



# So what's the problem?

Touch-screen terminals create significant disadvantages for those with disabilities.

Access to information and services is denied to those who are unable to see, read or physically interact with a visual display screen.



*“The most common disability in the world today is an inability to read. This disability may be caused by physiological, cognitive, educational or even cultural reasons”.*  
*Peter Jarvis.*

# Relying on the kindness of strangers.

Transit through a passenger terminal has been described as an embarrassing and sometimes humiliating experience by those with disabilities.

It frequently requires intervention and assistance from travelling companions, staff or other members of the travelling public.

This is an unacceptable denial of personal independence.

## So what are Storm ATP doing to address this?...



# Modular hardware solutions for Kiosk manufacturers.

- Intuitive, audible and tactile navigation of kiosk applications.
- By connection of assistive headsets and hearing aid devices.
- Compliant with mandated international standards.
- Simple USB connectivity, compatible with most OS and kiosk application software.
- Can be operated by those with impaired sight, limited dexterity and those using head-sticks or easy grip styli.
- Weather proof, robust and durable construction.
- Affordable and economically viable.



# Storm ATP products are widely (globally) deployed.

- Airport/airline check-in
- Retail product search, point-of-order and point-of-payment kiosks
- Interactive digital menu boards (restaurants)
- Access to government and citizen services kiosks (electronic voting)
- Customs and immigration screening kiosks (Global Entry Program)
- Transport system timetables, ticketing and fare collection (Amtrak)
- Hospital and Doctors Surgery registration terminals
- Vending Machines
- Wayfinding and Interactive Digital signage.
- Post Office services kiosks .....



# Global deployment.



Embross -  
JetBlue Airlines



NCR – Frontier  
Airlines



NCR – Alaska Airlines



ICM Airport Technics – Qantas



Amtrak



Embross – United Airlines



Wendy's

# But what comes next.

**AI voice recognition and speech commanded technology** Hey-Google, Alexa, Cortana, Siri etc.

- Speech Command technology moving out of the home into public spaces
- This brings many new opportunities for access to information, products and services.
- But it also brings challenges and risks.
- ‘Always On – Always Ready’ can mean ‘Always On – Always Listening’ .
- Storm ATP are working with the KMA and the USAB to implement an industry Code of Practice (CoP). This to protect privacy and prevent misuse of personal data.
- Storm ATP Whitepaper available, but here are some key points:

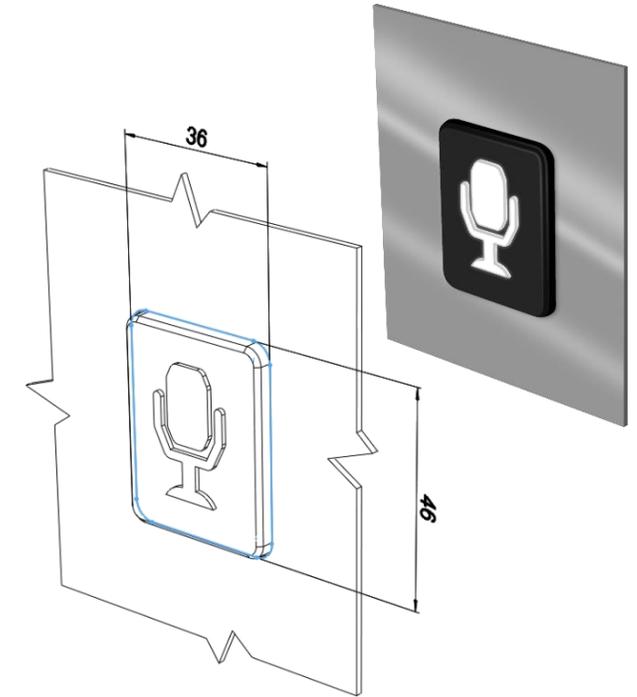


# A universal symbol for Speech Commanded Systems

We must know where and when Voice Recognition and Speech Commanded systems are in operation.

With guidance from the RNIB, Storm have designed and proposed an internationally recognized symbol to identify speech commanded systems.

- High contrast and highly visible graphic device
- Tactile and easily discernible
- Illuminates with a bright white light when the system is active/unmuted
- Offered as a free to use graphic device
- Will be available as an illuminated tile from Storm ATP
- To be placed in the 'addressable' zone.



# Far-field voice array microphones

- Beam focusing technology
- Active noise cancelling and noise suppression
- Weather resistant for exposed outdoor applications
- Modular design for simple installation
- Connected via a single USB cable with an anchored USB connector.



# Support for Assistive Headsets with Integrated Microphones

- 3.5 mm illuminated Jack Socket for headset connection
- Detects and signals insertion of a Jack Plug
- Jack socket has a raised tactile ident to assist tactile location
- Highly tactile , responsive and highly visible illuminated volume control buttons
- Integrated Sound processor for CD quality speech reproduction
- Connected via a single USB cable with an anchored USB connector
- Water Sealed and rugged construction for unattended outdoor applications.



# The global Smart Cities Initiative

- New York City Link experience illustrates that accessibility was not considered a priority.
- We have a responsibility to ensure that accessibility to public ICT is at the core of any Smart Cities initiatives.



# Compliant accessibility solutions for kiosk manufacturers



The White-paper and a copy of this presentation can be downloaded at:-

[www.storm-interface.com](http://www.storm-interface.com)

