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## Changi Airport Group conducts trials of new security screening technologies

Changi Airport Group (CAG) is conducting trials on new security screening technologies that can improve efficiency and processes at the screening checkpoints. The trials are being conducted at two boarding gates at Changi Airport Terminal 3 until June 2016. This is part of CAG's effort to deliver a better airport experience for passengers.

### *CT security screening for hand-carry luggage*

The first trial involves the use of a new computed tomography (CT) security

screening equipment to screen hand-carry luggage at the boarding gates before passengers board their flights.

Presently, passengers have to take electronic devices such as laptops and tablets out from their hand-carry luggage and place them on a separate tray for screening. Using advanced 3D screening technology, the new CT screening equipment allows passengers to keep such electronic devices in their hand-carry luggage, thereby saving them time.

### ***Automated Tray Return System***

To improve the process, the CT trial will also test a new automatic tray return system. With this automated system, trays can be presented to two passengers simultaneously at the start of the screening belt, enabling both to deposit their bags at the same time. The trays are automatically returned to the line after each screening cycle is completed, removing the need for security screening officers to manually bring the trays back to the start of the screening belt. This will improve screening efficiency and reduce waiting times for passengers.

Bags that require further checks will be automatically routed to a separate channel for follow-up by security officers. The overall flow will be better, and passengers will find it more expedient to pick up hand-carry luggage which have cleared screening.

### ***Enhanced body scanning***

Currently, departing passengers at Changi Airport are screened using walk-through metal detectors. To improve screening capabilities, CAG is trying out a body scanner machine that uses millimetre wave technology to detect both metallic and non-metallic items.

Passengers, after removing items in their pockets or on their body, simply need to walk into the body scanner and be scanned, a process that takes a few seconds. The data will be analysed by a computer algorithm. If a concealed item is detected, a non-invasive outline image indicating the item's location will be generated automatically. This allows the security officer to zoom in on the identified area to check the item, which would be more efficient. If nothing is detected, a green screen with an 'OK' appears and

the passenger clears quickly.

The millimetre wave technology has been certified to be safe. It poses no known health and safety risks as it utilises a very low-power non-ionising form of electromagnetic technology. The amount of electromagnetic radiation emitted by millimetre wave security scanners is many times smaller than that emitted by a mobile phone. The scanner complies with the standards set by the US Food & Drug Administration, American National Standards Institute and United Kingdom Health Protection Agency.

Said Mr Alan Tan, CAG's Vice President of Aviation Security, "At Changi Airport, we take safety and security seriously and are committed to maintaining the highest standards. We work very closely with the authorities to review and adopt new advanced technologies and process innovation to improve security screening and enhance the passenger experience at Changi."

"The data and passenger feedback we collect from the trials will help us assess the effectiveness and operational efficiencies of these new systems, before we ascertain their suitability for implementation at the airport."

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### ***About Changi Airport Group***

Changi Airport Group (Singapore) Pte Ltd (CAG) ([www.changiairportgroup.com](http://www.changiairportgroup.com)) was formed on 16 June 2009 and the corporatisation of Singapore Changi Airport (IATA: SIN, ICAO: WSSS) followed on 1 July 2009. As the company managing Changi Airport, CAG undertakes key functions focusing on airport operations and management, air hub development, commercial activities and airport emergency services. CAG also manages Seletar Airport (IATA: XSP, ICAO: WSSL) and through its subsidiary Changi Airports International, invests in and manages foreign airports.

Changi Airport is the world's sixth busiest airport for international traffic. It served a record 55.4 million passengers from around the globe in 2015. More than 360 retail stores and 140 F&B outlets are situated across three terminals to cater to passengers and visitors. With over 100 airlines providing connectivity to 320 cities worldwide, Changi Airport handles about 6,800 flights every week, or about one every 90 seconds.