



Electronic Seal System for the Aviation Industry
from Transeal Security Ltd



The Ongoing Challenge



Despite stringent security measures, airline onboard retail theft continues to grow

To keep aircraft safety and cabin security top of the agenda we must be aware that the ease of undetected access to remove products from catering equipment also creates the opportunity for **prohibited items to be placed inside**

The Ongoing Challenge



Conventional seals are easy to tamper with and replace



A broken seal simply tells you a cart may have been compromised



It does not tell you when, where and who might be responsible



Single-use seals when issued consecutively are predictable and also create unnecessary waste

The Solution



**An advanced electronic tamper-evident
seal & lock system that records all operations**

A management system designed for the aviation industry

The Solution



Enhance Security



Deter Theft



Reduce Losses



Cut Costs



Monitor Activity



Decrease Waste

The Solution



Enhance Security

High security lock to replace ineffective padlocks

Deter Theft

Visible deterrent that identifies who was in possession of the equipment at the time of irregular interference thus aiding investigation and eliminating false accusations

Reduce Losses

Makes opportunist theft very unlikely by alerting staff to any irregular interference

Cut Costs

10 year life span and maintenance free

Monitor Activity

Records all activities from packing to reconciliation

Decrease Waste

Electronic seal that replaces single-use metal and plastic alternatives

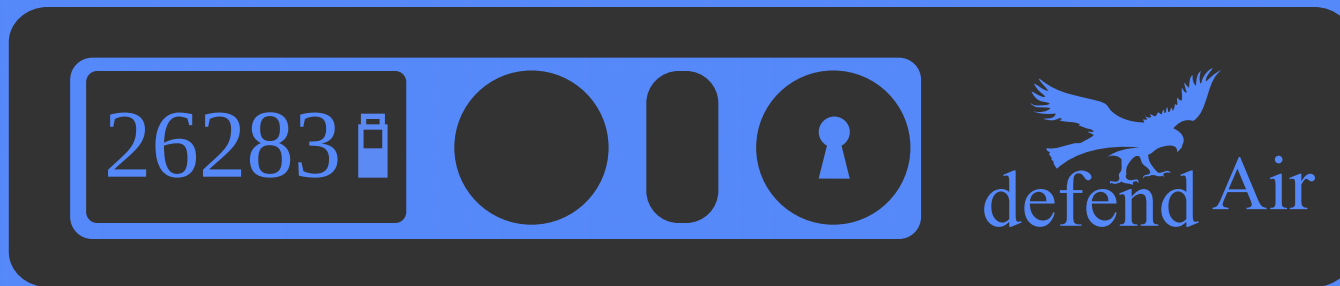
The defendAir Unit



Data transfer window



Intelligent key lock



Unique random seal number and status display screen

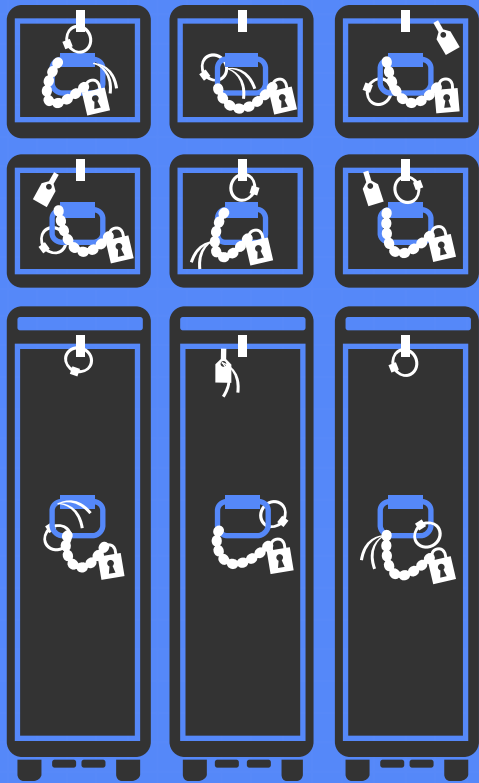


Recessed touch sensor

A Visible Difference



defendAir makes a visible difference to the galley



The old way

VS.



The defendAir way

Data Capture



1. Download the data onto the 'Talon' (PDA)

Data Capture



2. Transfer data wirelessly or via USB onto PC with 'SealSafe' software installed

3. Use 'SealSafe' encrypted archive software to investigate cart history and generate reports



Recorded Information



defendAir knows the ID of the container to which it is fitted and is able to record:



Container locking / unlocking



Every seal number generated



Door opening / closing



Attempted attacks or forced door opening



Number of events in log

- all with day, date and time to the second

Operational Assurances



When unlocked the display reads OPEN.
The container generates a new seal number prior to being locked and displays that number when it is locked.

By adhering to this principle, aircrew and service staff will be more accountable as this ensures:



It will prevent manifests being completed until the cart is locked and secure



It will prevent mistakes in forgetting to lock the cart



It will enhance in flight security procedures

Cost Benefit



The operating cost of defendAir can be as low as:

\$0.11c per door per day

\$40.00 per door per year

- regardless of the number of flight sectors

Conventional plastic and metal seals and padlocks can cost a minimum of between **\$85-\$154 per door per year**

This represents a considerable saving without including the reduction in losses and discrepancies defendAir will prevent

Technical Details



-  Sealed unit built from non-flammable industry approved plastics in a sealed shock & waterproof stainless steel enclosure
-  Can be retrofitted to all known Boeing & Airbus aircraft catering carts and canisters
-  Compatible with individual airline warehouse and onboard processes
-  10 year maintenance free battery life
-  Operating temperature range: -25 to +85 degrees celsius
-  Permanent LCD display with 5 second backlight

Technical Details



-  Display flashes ALERT when a suspected attack has taken place
-  800 event memory log
-  Unique random seal number generation
-  High security protected profile key lock with intelligent key tagging
-  Data stored in encrypted format which cannot be altered externally
-  3 year seal and software guarantee under normal use

Summary



**defendAir is the most cost effective method
to improve aircraft & airline security as well as
reduce losses through both organised
and opportunist theft**



Please get in touch for a demonstration

+44 (0)1494 484400

www.dutyfreesecurity.com/transeal

transeal@dutyfreesecurity.com

