

SCS – Software Crating Station

Secure End to End processing of Field Loadable Software



CHINA AIRLINES (%)

Description:

The SCS (Software Crating Station) device is a dedicated hardware tool used solely for the handling of the receipt, validation and signing of field loadable software. The device is locked down, with the configuration controlled by MBS, and is only able to perform its intended functions, ensuring security to the standard intended by the ARINC 667-3/RTCA DO-355A guidance material for a ground support system.

The device performs the following functions:

- Import of LSAP via electronic or physical (utilising external drives) means
 - Electronic distribution (e.g., FTP/Web) Portals
 - External CD / DVD / Floppy / PCMCIA Drives
- Validation of the authenticity and integrity of the field loadable software using PKI. The baseline uses the following validators
 - Carillon LSAP Desktop Validator
 - Boeing compatible Validator
 - Airbus compatible Validator
- Enable the received data and documents to be reviewed by the operator
- Facilitate crating and digital signing of field loadable software using the Desktop Signer in the ARINC 827 crate format
- Allow browser access to export crates for secure storage on the MBS FLS-Desk Server and to download software parts from supplier portals
- Allows export of signed crates to physical media

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Some MBS Customers American Airlines A DELTA 🖗 easyJet **BRITISH AIRWAYS ⊗** Condor ietBlue **Eurowings** SunExpress ICELANDAIR A Luftwaffe الخطوط التونس الجزيرة. Jazeera. Ameco Beijing CROATIA AIRLINES IBERIA Aer Lingus 🚜 > Bluebird Cargo

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The specification of the device is as follows:

Mini PC

- Intel Core i3 processor
- Intel Core i3 processor
 - 8GB RAM
 - 128GB SSD
- Custom Linux OS
- Preloaded with the following tools
 - SCS GUI
 - Carillon LSAP Desktop Validato
 - Boeing compatible Validator
 - Airbus compatible Validator
 - Carillon LSAP Desktop Signer
 - Kiosk Mode Web Browser
- Interfaces
 - USB: 2x front (Type-A, Type-C) and 3x rear USB 3.2 Gen2
 - Graphics: HDMI 2.0b; USB-C (DP1.4); MiniDP 1.4
 - LAN

Features:

- Import of field loadable software via electronic or physical means
- Validation of the authenticity and integrity of the field loadable software using PKI
- Facilitate crating and digital signing of field loadable software using the Desktop Signer in the ARINC 827 crate format
- Export crates for secure storage on FLS-Desk
- Carillon LSAP signer tool

Benefits:

- End to End Secure Process
- ARINC 667-3 / RTCA DO-355A compliant software distribution
- Supports validation of Airbus ARINC 641-1 formatted software parts
- Fully maintained device to reduce IT efforts and running costs to maintain updates and security patches
- Plug and Play

Use:

- Operators
- Aircraft manufacturers
- Avionics equipment supplier

Software Crating Station Ordering Information

Part Number	Description
AE-667-SCS	Software Crating Station



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