TEST CERTIFICATE

No. DK0199-Alibi-07.04

Object name   **CSC3**

Object type   Alibi Storage Device

Issued by   **DELTA Danish Electronics, Light & Acoustics**
EU - Notified Body No. 0199

In accordance with   Paragraph 8.1 of the European Standard on metrological aspects
of non-automatic weighing instruments EN 45501:1992,
WELMEC Guide 2.3 (2005), WELMEC Guide 2.5 (2000), and
WELMEC Guide 7.2 (2007)

Issued to   **Post Danmark A/S**
Taulov pakkecenter
Stakkesvang 15, Taulov
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Denmark

Manufacturer   FKI Logistex A/S

Characteristics   An external Alibi Storage Device suitable for use with both non-
automatic weighing instruments and automatic weighing instru-
ments.

Description and   The alibi storage device is described and documented in the
documentation   annex to this certificate.

Remarks   Summary of tests involved: see annex.
This test certificate cannot be quoted in an EU type approval
certificate without permission of the holder of the certificate
mentioned above.

The annex comprises 4 pages.

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Issued on   26 September 2007   Signatory: J. Hovgård

1. General

The Data Storage device is designated CSC3 and used as an external alibi system for automatic weighing instruments and non-automatic weighing instruments at the parcel centre of Post Danmark in Brøndby. CSC3 also receives measuring results from multi-dimensional measuring instruments, but at present this is not regarded as legal information.

2. Description

The CSC3 software realises in long term data storage for weight and dimensions of parcels.

CSC3 receives measuring results packed in records with CRC checksum from the connected measuring instruments. CSC3 collects weight, dimensions and parcel ID barcode for the parcel as it is transported through the parcel sorter controlled by the CSC3. The collected parcel information is stored in an alibi record protected with CRC checksum.

The 16-bit CRC checksum is calculated using a private secret key.

Parcels may be placed on a tray, while transported through the sorter. The tray has a barcode, which is used to identify the tray. The tray barcode can either be manually scanned or read by the overhead scanner. CSC3 has a preset tare function subtracting the weight of the tray from the gross weight of the parcel.

The CSC3 has an "Alibi lookup" facility. Entering the ID barcode will search the entire data base for occurrences of the barcode and display the found record(s) together with indication of whether CRC check is ok or not.

Stored records are transferred to a host computer for invoicing of the parcel service. This transmission is not under legal control.

CSC3 has a system test function, where a series of test parcels with known weight and parcel ID barcode is sent through the parcel sorter to ensure that all legal information is collected correct, as collected information is compared with the parcel information a priori stored in CSC3. The result of the test shall be printed and kept in a log book. The test shall be performed at least every 6 months and after service on the PC hosting CSC3 or the transmission network.

3. Technical data

CSC3 runs on a PC with SCO Unix and ISAM version 3 SQL server.

Alibi records are kept on the hard disk of the system for up to 1 month. Each month the alibi records are transferred to a removable back-up media (tape or CD).

4. Weighing instruments to be connected

CSC3 is intended for use with automatic catchweighers and multi-dimensional measuring instruments placed in the inlet to and on the parcel sorter or placed in special manual sorting lines. Furthermore non-automatic weighing instruments (NAWIs) can be connected for parcels, which are handled manually.

5. Functions and facilities

- Receiving secured alibi records for connected weighing instruments.
- Secure storing of alibi records in database on disk.
- Back-up of stored alibi records to removable media.
- Restoring of alibi records from back-up media.
- Alibi lookup of stored records based on ID barcode number.

6. Interfaces and peripheral devices

The interfaces of the PC used by CSC3 are declared protective by the manufacturer.

7. Impositions and conditions

The CSC3 meets the requirements only when it is correctly loaded, displaying its identification (see Section 8).

When using trays for preset tare they shall have bended edge and shall be in a light colour, and preventive maintenance shall be performed every 6 months on the vision system of the overhead scanner that detects tray barcodes for preset tare.

Enough copies of the tray barcode shall be placed on the tray to ensure reliable detection of it from all cameras of the overhead scanner. This means at least six barcodes for preset tare shall be placed on the tray with one on each side, and one on the bended edge in each side.

New types of trays may only be put into use after this has been agreed upon by the issuing authority of this certificate.

Only but then CSC3 may be used for purposes subject to legal control.

8. Inscriptions and sealing

The size and checksum of the program modules responsible for handling legal data shall be the following, when displayed or printed by the CSC3.

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===============================================================
s2000 software version                    mm/dd/yy tt:mm:ss
Checksums oversight for de kritiske dele af CSC'en
===============================================================
Størrelse       Checksum          Navn
168196          1842393620        mcisisrv
117716          469683476         ucart
28472           1077996400        stat
26652           2351142336        wsave
51720           926398010         host
406172          404163315         mmietherm
44148           766537898         testsrv
34700           3749900121        searchsrv
137732          4053891048        xconv
31612           3990362984        ../../usr/libcrc.so
===============================================================
```

No sealing of CSC3 software is to be performed, as CSC3 contains no type parameters (TP) and device parameters (DP).

9. Additional information for the EC verification

A copy of this test certificate has to be supplied at verification of a connected measuring instrument.

10. Documentation

The submitted documentation is filed at DELTA in file no. E830071, E830081, E830082, A530377, and A530433.

11. Examinations performed

The following examinations were accomplished at a PC:

- Examination of the submitted documentation.

- Examination of the software in accordance with WELMEC Guide 2.3 (2005), WELMEC Guide 2.5 (2000), WELMEC Guide 7.2 (2007), and Directive 2004/22/EC, Annex I, section 8.1 - 8.4 and 10.3.

- Examination of functional and operational behaviour.

In accordance to WELMEC Guide 2.5 (2000), section 5.1 and 3.3 no additionally tests of the PC are necessary as it carries a CE mark.

The examination is reported in the following test reports:

- DANAK-199871, dated 30 September 2007, 33 pages.
- DANAK-199858, dated 30 July 2007, 40 pages.
- DANAK-199816, dated 26 September 2006, 91 pages.
- DANAK-199760, dated 6 April 2005, 24 pages + 7 annexes.
- DANAK-199732, dated 2 July 2004, 23 pages + 7 annexes.