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# EVALUATION CERTIFICATE

## No. DK0199-DSD-12.02 Revision 1

<b>Object name</b>	<b>CSC3</b>
<b>Object type</b>	Data Storage Device
<b>Issued by</b>	<b>DELTA Danish Electronics, Light &amp; Acoustics</b> EU - Notified Body No. 0199
<b>In accordance with</b>	The applicable requirements of the Measurement Instruments Directive 2004/22/EC, and WELMEC Guide 7.2:2011
<b>Issued to</b>	<b>Crisplant A/S</b> P. O. Pedersens Vej 10 8200 Aarhus N Denmark
<b>Manufacturer</b>	Crisplant A/S
<b>Characteristics</b>	An external Data Storage Device suitable for use as Alibi memory device with both weighing instruments and multi-dimensional measuring instruments.
<b>Description and documentation</b>	The alibi storage device is described and documented in the annex to this certificate.
<b>Remarks</b>	Summary of tests involved: see annex. This evaluation certificate cannot be quoted in an EC type examination certificate without permission of the holder of the certificate mentioned above.

**The annex comprises 3 pages.**

Issued on 15 December 2014

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## 1. General

The Data Storage device is designated CSC3 and used as an external alibi system for automatic catchweighing instruments and multi-dimensional measuring instruments at regional parcel centres of Posten Norge.

## 2. Description

The CSC3 software realizes external long term data storage for weight and dimensions (volume) 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 induction line.

The collected parcel information is placed in an alibi record protected with CRC checksum and stored in a data base. The data base is backed up every month to an external back-up media from which it can be restored to a separate 'restored data base' area for lookup purposes.

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

The CSC3 has an "Alibi lookup" facility. Entering the ID barcode will search the entire data base – or the entire restored data base - for the occurrences of the barcode and display the found record together with indication of whether CRC check is ok or not. The ID barcodes used shall be unique as only the latest record is displayed in case of multiple records with the same ID barcode.

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 parcel ID barcode, weight, and dimensions are sent through the induction line to ensure that all legal information is collected correct, as collected information is compared with the parcel information a priori stored in CSC3.

The test shall be performed at least every 6 months and after service on the PC hosting CSC3 or the transmission network. At least two parcels shall be used for the test.

## 3. Technical data

CSC3 runs on a PC with Unix operating system and a data base server.

Alibi records are kept on the hard disk of the system for up to one year and can be recalled using the "Alibi lookup" facility.

Each month the alibi records are transferred to a removable back-up media.

Back-ups can be read back into the PC after which the "Alibi lookup" facility can be used on the back-up data to search for parcel data.

## 4. Measuring instruments to be connected

CSC3 is intended for use with automatic catchweighing instruments and multi-dimensional measuring instruments placed in automatic induction lines used as inlet to the sorter or stand alone.

## 5. Functions and facilities

- Receiving secured alibi records from connected measuring 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).

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 one of the following two possibilities, when displayed or printed by the CSC3.

Alt.1:

```
=====
s2000 software version                02/14/12 11:50:41
Checksum overview for critical parts of the CSC
=====
Size          Checksum          Name
35320        4181309490        wvsave
25816        4216360939        mmiwvtest
29980        2430117599        mmiweightlookup
152932       4270771150        mcisisrv
29144        2166085170        stat
78300        1571340638        ucart
103980       3049911569        xconv
32540        3386795759        /usr/lib/libcrc.so
```

Alt.2:

```
=====
s2000 software version                11/21/14 15:54:28
Checksum overview for critical parts of the CSC
=====
Size          Checksum          Name
35320        4181309490        wvsave
25816        4216360939        mmiwvtest
29996        4234099269        mmiweightlookup
154060       4080637211        mcisisrv
29144        2166085170        stat
78444        551414468         ucart
108428       4149954522        xconv
32540        3386795759        /usr/lib/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 connected measuring instruments

## 10. Documentation

The submitted documentation is filed at DELTA in file no. T209882, T201843, A530676, A530433, A530377, E830082, E830081, and E830071.

## 11. Examinations performed

The following examinations were accomplished:

- Examination of the submitted documentation.
- Examination of the software in accordance with WELMEC Guide 7.2 (2011), and Directive 2004/22/EC, Annex I, section 8.1 - 8.4 and 10.3.
- Examination of functional and operational behaviour at Crisplant's premises.

The examination is reported in the following test reports:

- DANAK-19111861, dated 15 February 2012, 28 pages.
- DANAK-1910636, dated 11 September 2009 28 pages.
- DANAK-1910094, dated 13 March 2008 28 pages.
- DANAK-199871, dated 30 September 2007, 33 pages.
- DANAK-199858, dated 8 August 2007, 40 pages.
- DANAK-199816, dated 26 September 2006, 91 pages.
- DANAK-199760, dated 6 April 2005, 121 pages.
- DANAK-199732, dated 2 July 2004, 118 pages.