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# EVALUATION CERTIFICATE

**No. DK0199-DSD-11.09 Revision 2**

**Object name** AlibiCert2Base

**Object type** Data Storage Device

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

**In accordance with** The applicable requirements of the Measurement Instruments Directive 2004/22/EC, and WELMEC Guide 7.2:2011

**Issued to** Crisplant A/S  
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Denmark

**Manufacturer** Crisplant A/S

**Characteristics** An external Data Storage Device suitable for use as Alibi memory device with both weighing instruments and multi-dimensional measuring instruments.

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

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

**Note: This certificate is a revised edition which replaces previous revisions.**

**The annex comprises 4 pages.**

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## 1. General

The Data Storage device is designated AlibiCert2Base and used as an external alibi system for automatic weighing instruments and multi-dimensional measuring instruments. It handles the collection and long term storage of the legal measuring data for the parcels from the connected automatic catchweighers and multi-dimensional measuring instruments of the parcel sorter system.

## 2. Description

The AlibiCert2Base software realises in long term data storage for weight and dimensions of parcels.

AlibiCert2Base receives measuring results packed in records with CRC checksum (CRC1) from the connected measuring instruments. AlibiCert2Base collects weight, dimensions and parcel ID barcode for the parcel, as it is transported through the parcel sorter. The collected parcel information is stored in an alibi record protected with CRC checksum (CRC2).

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

The AlibiCert2Base 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.

AlibiCert2Base has a system test function, where a series of test parcels with known weight, dimensions, and parcel ID barcode are 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 AlibiCert2Base. 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 AlibiCert2Base, on the transmission network, or when connecting new legal measuring instruments. The purpose of the system test is to ensure correct transmission and storage of the legal measuring data, not to test the accuracy of the measuring instruments.

At start-up of the AlibiCert2Base program, the checksums of the files with the executable code of AlibiCert2Base are compared against the checksums of the approved software, which are stored in an encrypted CRC-protected file, and in case of mismatch the AlibiCert2Base program cannot start.

### **3. Technical data**

The Server part of AlibiCert2Base runs either on a separate PC or on the main PC controlling the parcel sorter. Likewise, the client can run on both separate PCs and on the client PCs of the sorter system.

CSC5 runs on the main PC controlling the parcel sorter, as well as on client PCs allowing additional operators to use the system.

Alibi records are kept on the hard disk of the system for up to 1 month. Each month the alibi records are transferred - on operator command - to the backup data storage area on the hard disk. If not transferred, the parcel sorting stops when the database is full.

The content of the backup data storage can be moved to an external media (CD, DVD, USB storage device or similar). Likewise, the backup data of an external media can be read back into the backup data storage area for looking up old alibi records.

### **4. Measuring instruments to be connected**

AlibiCert2Base is intended for use with automatic catchweighers and multi-dimensional measuring instruments placed at the inductions and on the parcel sorter.

The system can also support non-automatic weighing instruments.

### **5. Functions and facilities**

- Receiving secured alibi records for connected measuring instruments.
- Secure storing of alibi records in database on disk.
- Backup of stored alibi records to removable media.
- Restoring of alibi records from back-up media.
- Alibi lookup of stored records in primary database or backup database, both based on ID barcode number of parcel.

### **6. Interfaces and peripheral devices**

The interfaces of the legally relevant software part of AlibiCert2Base are declared protective by the manufacturer.

### **7. Impositions and conditions**

The AlibiCert2Base meets the requirements only when it is correctly loaded and its identifications - checksums of legally relevant modules - displayed are in accordance with the table in Section 8.

A tare function of the catchweighers is not to be used when connected to AlibiCert2Base.

Only then AlibiCert2Base may be used for purposes subject to legal control.

## 8. Inscriptions and sealing

The version and the checksums of the legally relevant program modules shall be the following, when displayed or printed by the AlibiCert2Base:

Software version of alibi system: 1.0.4 or 1.0.5 or 1.0.6.

Checksums for software version 1.0.4:

Source	File name	Checksum
Server	bin\alibicert2base.jar	A5956555C8FDEB44F6185BE5E28C3F96
Client	bin\alibicert2base.jar	A5956555C8FDEB44F6185BE5E28C3F96
Server	bin\alibicert2base-tst.jar	A9BD4081EA5DDD66ECA5A0B7C1DB4523
Client	bin\alibicert2base-tst.jar	A9BD4081EA5DDD66ECA5A0B7C1DB4523
Server	doc\relnotes.txt	70E1EA1420CA1C072EA8D06AD076462C
Client	doc\relnotes.txt	70E1EA1420CA1C072EA8D06AD076462C
Server	devenv.cfg	469197D7F8C30849D7CD5C483AEAA917
Client	devenv.cfg	469197D7F8C30849D7CD5C483AEAA917
Server	etc\MANIFEST.MF	BE811397FBF22923DE22B09442DD9D7F
Client	etc\MANIFEST.MF	BE811397FBF22923DE22B09442DD9D7F
Server	classpathhacktest\alibicert...	888B30E5950C5A81C19FC6F03C0AC8BC
Client	classpathhacktest\alibicert...	888B30E5950C5A81C19FC6F03C0AC8BC

Checksums for software version 1.0.5:

Source	File name	Checksum
Server	bin\alibicert2base.jar	8E414BF963CC5065233D7D9FC34BE10E
Client	bin\alibicert2base.jar	8E414BF963CC5065233D7D9FC34BE10E
Server	bin\alibicert2base-tst.jar	CCF95ABA2FBC02C5020BB2FEBC6AF602
Client	bin\alibicert2base-tst.jar	CCF95ABA2FBC02C5020BB2FEBC6AF602
Server	doc\relnotes.txt	30FA2F6BCCA072B4A9EE0229C0047150
Client	doc\relnotes.txt	30FA2F6BCCA072B4A9EE0229C0047150
Server	devenv.cfg	469197D7F8C30849D7CD5C483AEAA917
Client	devenv.cfg	469197D7F8C30849D7CD5C483AEAA917
Server	etc\MANIFEST.MF	5A0F760570CF321EF25D1A9583CD0080
Client	etc\MANIFEST.MF	5A0F760570CD321EF25D1A9583CD0080
Server	classpathhacktest\alibicert...	888B30E5950C5A81C19FC6F03C0AC8BC
Client	classpathhacktest\alibicert...	888B30E5950C5A81C19FC6F03C0AC8BC

Checksums for software version 1.0.6:

Source	File name	Checksum
Server	bin\alibicert2base.jar	907553D8C5CFD1D5A26C6F4A92EB91DC
Client	bin\alibicert2base.jar	907553D8C5CFD1D5A26C6F4A92EB91DC
Server	bin\alibicert2base-tst.jar	859BB6682B217B8943F60BC0A15D1BF9
Client	bin\alibicert2base-tst.jar	859BB6682B217B8943F60BC0A15D1BF9
Server	doc\relnotes.txt	C5BF8098185308D74FBC45B0F9AAB223
Client	doc\relnotes.txt	C5BF8098185308D74FBC45B0F9AAB223
Server	devenv.cfg	56D7A771518C348096D62719D50201B8
Client	devenv.cfg	56D7A771518C348096D62719D50201B8
Server	etc\MANIFEST.MF	B630C987102C1015A74BFDE6CB2500E8
Client	etc\MANIFEST.MF	B630C987102C1015A74BFDE6CB2500E8
Server	classpathhacktest\alibicert...	888B30E5950C5A81C19FC6F03C0AC8BC
Client	classpathhacktest\alibicert...	888B30E5950C5A81C19FC6F03C0AC8BC

No sealing of AlibiCert2Base software is to be performed as AlibiCert2Base contains no type parameters (TP) or device parameters (DP), and other legally relevant data are stored in encrypted files.

## 9. Additional information for the EC verification

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

## 10. Documentation

The submitted documentation is filed at DELTA in file no. A530916.

## 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 7.2 (2011) and Directive 2004/22/EC, Annex I, section 8.1 - 8.4 and 10.3.
- Examination of functional and operational behaviour.

In accordance with 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 report:

- DANAK-1911430, dated 17 June 2011.