



EVALUATION CERTIFICATE

No. DK0199-16.06 Revision 1

Object name	AlibiCert3Base
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 2014/32/EU, and WELMEC Guide 7.2:2015
Issued to	BEUMER Group A/S P. O. Pedersens Vej 10 8200 Aarhus N Denmark
Manufacturer	BEUMER Group 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.
The annex comprises 4 pages.	

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1. General

The Data Storage device is designated AlibiCert3Base 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 AlibiCert3Base software realises in long term data storage for weight and dimensions of parcels.

AlibiCert3Base receives measuring results packed in records with CRC checksum (CRC1) from the connected measuring instruments. AlibiCert3Base 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 AlibiCert3Base 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.

AlibiCert3Base 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 AlibiCert3Base. 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 AlibiCert3Base, 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 AlibiCert3Base program, the checksums – calculated using a HMAC-SHA256 algorithm - of the files with the executable code of AlibiCert3Base are compared against the checksums of the approved software, which are stored in an encrypted and checksum protected file, and in case of mismatch the AlibiCert3Base program cannot start.

An identification of the software can also be presented upon request via the Version GUI.

3. Technical data

The Server part of AlibiCert3Base 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.

The CSC5 software controlling the parcel sorter runs on the main PC, 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. At the end of the period the system transfers all alibi records to one or more external disk systems used for backup. If not transferred, the parcel sorting stops when the database is full.

The backed-up data on an external disk system can be read back into the separate backup data storage area for looking up old alibi records.

4. Measuring instruments to be connected

AlibiCert3Base 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 external disk system.
- 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 AlibiCert3Base are declared protective by the manufacturer.

7. Impositions and conditions

The AlibiCert3Base meets the requirements only when it is correctly loaded, and its identifications - checksums of legally relevant modules - displayed are in accordance to the table in Section 8.

A tare function of the catchweighers is not to be used when connected to AlibiCert3Base.

Only then AlibiCert3Base 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 AlibiCert3Base.

Software version of alibi system: 1.0.0 or 1.1.0

Checksums for software version 1.0.0

Source	File name	Checksum
Server	..\bin\alibicert3base-tst.jar	F0B554693F0085726C3D1ACA00FBA1F766FC059B7A587E8C9B60699A4B5781DB
Server	..\bin\alibicert3base.dll	644E9CD871ACE4AD69AB4E87A30A29BE1E332499C765CA299B3DB380C65338A3
Server	..\bin\alibicert3base.jar	58DC9A3FE9F01C6C2214511BDC888895E25194792A428E299E45E4EA8E6CED92
Server	..\bin\alibicert3base.XML	7928871C06ED9FDB534B004B5055D6E80DFA0C3EF84DB29AA9A9306B267A9E31
Server	..\devenv.cfg	8E8DE26D8F19291AA42D5D1A9B14CCCB64952B5548F7BB37EC95CC9F645A65C7
Server	..\doc\relnotes.txt	8C0D1041A8F300813CE4020CBEC71119462EB760A602E8780B90AD85960BF2BD
Server	..\etc\MANIFEST.MF	6FFE299CD5636716344EBD481981D0E0F9848397EFA349110AEC931B8F86567E
Client	..\bin\alibicert3base.dll	644E9CD871ACE4AD69AB4E87A30A29BE1E332499C765CA299B3DB380C65338A3

Checksums for software version 1.1.0

Source	File name	Checksum
Server	..\bin\alibicert3base-tst.jar	5FC41A05C96E89652C950D4ED09FED4F09E0C16DD28BEC6814D127DFF328F75C
Server	..\bin\alibicert3base.dll	00C6D66E0B7F82050FB08F81F433F1A96496AEE7108752532009D7E27BB15391
Server	..\bin\alibicert3base.jar	CEEB0192CD86A17A6715CD732977A62A34B2B3A2B0018B43BCE992ADF18D46C1
Server	..\bin\alibicert3base.XML	C0EFBE605D68379A3F4A3C764F1E4DBCC0864309182AC8E6E26A0C4AF882C7E7
Server	..\devenv.cfg	8E8DE26D8F19291AA42D5D1A9B14CCCB64952B5548F7BB37EC95CC9F645A65C7
Server	..\doc\relnotes.txt	93B258B2CD1BD93B5F7F33B33FC7E764A79A2F8403D9BE145248D85A1A2BE21B
Server	..\etc\MANIFEST.MF	7BCA70EB609D4EA08A3996BED4BF38623192CAC8AC79EC2C5725E1149CC46608
Client	..\bin\alibicert3base.dll	00C6D66E0B7F82050FB08F81F433F1A96496AEE7108752532009D7E27BB15391

No sealing of AlibiCert3Base software is to be performed, as AlibiCert3Base 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. T211247.

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 (2015), and Directive 2014/32/EU, 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-1916803, dated 25 August 2015.