PRODUCT CONFORMITY CERTIFICATE

This is to certify that the

CDAS Advanced / Elite Software

Manufactured by:

a1-cbiss Ltd

5 Valiant Way
Lairside Technology Park
Tranmere
Wirral
CH41 9HS

has been assessed by Sira Certification Service
and for the conditions stated on this certificate complies with:

**MCERTS Quality and Performance Standards for
Environmental Data Management Software, Version 4, (December 2017)
in respect of:**

Part A - Generic Software Quality
Part B - Data Management General Aspects
Part C1 – CEMS data management applications – Generic Requirements
Part C2 - CEMS Data Management Applications - EN14181 Requirements

Project No.:	674/0396, 16S24914 & 80016382
Certificate No:	Sira MC090153/03
Initial Certification:	02 September 2009
This Certificate issued:	02 September 2019
Renewal Date:	01 September 2024

Holly Blincow
Environmental Project Engineer

MCERTS is operated on behalf of the Environment Agency by

Sira Certification Service

Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
Tel: +44 (0)1244 670 900

Certificate Contents

Approved Site Application

Any potential user of the certified software should:

1) Ensure that it is suitable for the platform on which it will be installed (if necessary in consultation with the software producer)

2) Ensure that the selection and operation of the software is appropriate to the application

Basis of Certification

This certification is based on the following Test Report(s) and on Sira's assessment and ongoing surveillance of the product and the manufacturing process:

- a1-cbiss CDAS MCERTS Assessment Report, Issue 0.1, 17th August 2009 carried out under Sira project reference 674/0396 and assessments reports referred to therein.

- a1-cbiss CDAS MCERTS Assessment Report, Issue 0.1, 24th February 2012 carried out under Sira project reference 16A24914 and assessments reports referred to therein.

- a1-cbiss CDAS v 2.2 Software MCERTS Surveillance Audit Report dated 28th August 2014

- a1-cbiss MCERTS Surveillance Audit Report dated 28th August 2019

Certificate No :   Sira MC090153/03
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Page 2 of 5

Product Certified

Product	Version	Remarks
CDAS	2.0	Later minor changes to the certified version are permitted in accordance with the conditions of the standard. This software includes the following: • CDAS Advanced – includes EN14181 QAL2 but not QAL3 • CDAS Elite – includes all functionality
CDAS	2.7	Later minor changes to the certified version are permitted in accordance with the conditions of the standard. This software includes the following: • CDAS Advanced – includes EN14181 QAL2 but not QAL3 CDAS Elite – includes all functionality

The variant is selected automatically at start up by interrogating the CDAS dongle, which is configured according to the version that has been purchased. This certificate applies to the following executable files:

Executable (.exe) file	Function	Configured by Dongle
CDAS.DV	Data visualisation	Yes
CDAS.DC	Data collection	Yes
CDAS.CCenter	Control of the CDAS application	No
CDAS.Report	Reports	Yes
CDAS.DCUI	UI for CDAS DC	No

Software Modifications

In the event of a major release the developer shall provide brief supporting evidence to the Certification Body who will advise whether recertification is necessary.

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Page 3 of 5

Certified Performance

The application is able to perform the following tasks:

- CDAS Elite can run automated or manual EN14181 - QAL3 tests, generating Shewhart or Cusum reports afterwards.

- CDAS Advanced / Elite allows two copies to be setup in a dual redundant configuration.

- CDAS Advanced / Elite Report allows users to create standard format reports or trends of historical data. Reports can be saved to PDF format or exported as a comma separated text file.

- Standard QAL 2 distribution and EA monthly reports can be generated.

- Custom Reports allow specific reports to be created to match users permit requirements

- CDAS Elite Report can run Shewhart and Cusum reports.

Description

CDAS Advanced / Elite is a suite of programs that collects and processes emissions data for display and reporting purposes. The program collects data from instruments using Ethernet communications every five seconds, storing data on the hard drive each minute.

Raw data can be corrected to standard reference conditions and to a reference O2 concentration. Calibration functions from EN14181 - QAL 2 and confidence limits can also be applied. Averages are calculated for 10, 15, 30 and 60 minute periods and the daily average.

The on-screen display is completely customisable and can consist of data grids, gauges, real time trends and digital status indicators.

Alarms can be configured against any calculated value which can be displayed on screen and trigger external signals. Daily reports can be generated showing period averages and the daily average of selected parameters.

General Notes

1. This certificate is based upon the equipment tested. The Manufacturer is responsible for ensuring that on-going production complies with the standard(s) and performance criteria defined in this Certificate. The Manufacturer is required to maintain an approved quality management system controlling the manufacture of the certified product. Both the product and the quality management system shall be subject to regular surveillance according to 'Regulations Applicable to the Holders of Sira Certificates'.

2. The design of the product certified is defined in the Sira Design Schedule V00 for certificate No. Sira MC090153/03

3. If certified product is found not to comply, Sira Certification Service should be notified immediately at the address shown on this certificate.

3. The Certification Marks that can be applied to the product or used in publicity material are defined in 'Regulations Applicable to the Holders of Sira Certificates'.

4. This document remains the property of Sira and shall be returned when requested by the company.

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