device
language
message
specification

DLMS User Association

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Certification No. 2034

This is to certify that the metering equipment identified as:

Type: CHS330
Mgmt. SAP = 1 is "5A5459313031303730303030303134" (ZTY1010700000014)
Manufactured by: ZHEJIANG CHINT INSTRUMENT & METER CO.,LTD

has successfully passed the DLMS/COSEM Conformance test, under the following conditions:

- CTT version: CTT 3.0 standard edition, 64bits (109)
- Licensed to: 20150706_Zheijang_Chint_Instrument_&_Meter_Co_Ltd_CHINA (2015/7/6)
- COSEM object definitions file version: Object_defs_v3.3_released_180601.dat
- Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1	HDLC, DIRECT_HDLC	LONG_NAMES, LONG_NAMES_ WITH_CIPHERING	ACTIVATE_SECURITY_ POLICY, KEY_TRANSFER SERVICE_SPECIFIC_DED_ CIPHERING SERVICE_SPECIFIC_GLO_ CIPHERING	01-NOV-2018 16:54:37	643791BB89D0B733F38FB0F2035A6F54A7A6960D613F811A428640B82C600EE5
Test 2	HDLC, MODE_E			01-NOV-2018 16:38:35	6DE2612188016D5E4A31883044AAE5190E42D544B13ACFCF44A21D86C11F3E79
Test 3	TCP			31-OCT-2018 13:14:11	DAB6ECF0C6C07C4655FE476796FA746FA749676C688EAD61E5C553448687EE69

The authenticity of the test report(s) has been verified by the DLMS User Association and the metering equipment identified above is listed on its web site at: www.dlms.com.

With this, the manufacturer is entitled to display the DLMS/COSEM Compliant mark – shown below – on its product duly identified and on its product literature.

COSEM
Compliant

The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

This Certificate is only valid for the functions successfully tested; see the Summary. The test has been executed on one specimen of the product, as identified by the Management Logical Device Name reported. Results may not be applicable for other test specimens.

Date: Zug, the 3rd November 2018

Győző Kmethy
President

Certification No. 2034

Summary of features tested for Test 1

This section provides an overview of the features tested, aggregated over all logical devices and Application Associations in one test session. Full information is available in the Test Result.

```
******************
* Identification *
******************

Identification = {
  Manufacturer = "\ZHEJIANG CHINT INSTRUMENT & METER CO.,LTD"
  FLAGid = "\ZTY"
  Type = "\CHS330"
  IUTIsModule = FALSE
  SerialNr = "\181000000014"
  Comment = "\This is a comment"
  Comment = "\This is another comment"
}

***********
* Summary *
***********

TYPE    TOTAL   SKIPPED   INAPPLICABLE   INCONCLUSIVE   PASSED    FAILED
----    -----   -------   ------------   ------------   ------    ------
HDLC    36      0         1              0              35        0
APPL    52      0         9              0              43        0
COSEM   3510    2         0              56             3452      0
SYMSEC  78      0         1              0              77        0

Communication profile:               HDLC

Application context names:           LONG_NAMES,LONG_NAMES_WITH_CIPHERING

Security mechanisms:                 NO_SECURITY,HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features:             ACTION,GET,SERVICE_SPECIFIC_BLOCK_TRANSFER
                                     SET

Security features:                   ACTIVATE_SECURITY_POLICY,KEY_TRANSFER
                                     SERVICE_SPECIFIC_DED_CIPHERING
                                     SERVICE_SPECIFIC_GLO_CIPHERING

Logical device(s) found:
                                     SAP = 1 is "5A5459313031303730303030303134"
(ZTY1010700000014)

COSEM classes tested:                1,3,4,5,7(1),8,9,11,15(1),17,18,19(1),20
                                     23(1),27(1),29(2),41,42,43,45,47,64,70

COSEM classes found but not tested:  (none)
```

Certification No. 2034

Summary of features tested for Test 2

This section provides an overview of the features tested, aggregated over all logical devices and Application Associations in one test session. Full information is available in the Test Result.

```
******************
* Identification *
******************

Identification = {
  Manufacturer = "\ZHEJIANG CHINT INSTRUMENT & METER CO.,LTD"
  FLAGid = "\ZTY"
  Type = "\CHS330"
  IUTIsModule = FALSE
  SerialNr = "\181000000014"
  Comment = "\This is a comment"
  Comment = "\This is another comment"
}

***********
* Summary *
***********

TYPE    TOTAL   SKIPPED   INAPPLICABLE   INCONCLUSIVE   PASSED    FAILED
----    -----   -------   ------------   ------------   ------    ------
HDLC            All(MODE_E)
APPL    52      0         9              0              43        0
COSEM   3510    2         0              56             3452      0
SYMSEC  78      0         1              0              77        0

Communication profile:               HDLC

Application context names:           LONG_NAMES,LONG_NAMES_WITH_CIPHERING

Security mechanisms:                 NO_SECURITY,HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features:             ACTION,GET,SERVICE_SPECIFIC_BLOCK_TRANSFER
                                     SET

Security features:                   ACTIVATE_SECURITY_POLICY,KEY_TRANSFER
                                     SERVICE_SPECIFIC_DED_CIPHERING
                                     SERVICE_SPECIFIC_GLO_CIPHERING

Logical device(s) found:
                                     SAP = 1 is "5A5459313031303730303030303134"
(ZTY1010700000014)

COSEM classes tested:                1,3,4,5,7(1),8,9,11,15(1),17,18,19(1),20
                                     23(1),27(1),29(2),41,42,43,45,47,64,70

COSEM classes found but not tested:  (none)
```

Certification No. 2034

Summary of features tested for Test 3

```
This section provides an overview of the features tested, aggregated over all logical
devices and Application Associations in one test session. Full information is available
in the Test Result.
```

```
******************
* Identification *
******************

Identification = {
  Manufacturer = "\ZHEJIANG CHINT INSTRUMENT & METER CO.,LTD"
  FLAGid = "\ZTY"
  Type = "\CHS330"
  IUTIsModule = FALSE
  SerialNr = "\181000000014"
  Comment = "\This is a comment"
  Comment = "\This is another comment"
}

***********
* Summary *
***********

TYPE    TOTAL   SKIPPED   INAPPLICABLE   INCONCLUSIVE   PASSED    FAILED
----    -----   -------   ------------   ------------   ------    ------
HDLC            All(Communication profile not HDLC)
APPL    52      0         9              0              43        0
COSEM   3510    2         0              56             3452      0
SYMSEC  81      0         0              0              81        0

Communication profile:               TCP

Application context names:           LONG_NAMES,LONG_NAMES_WITH_CIPHERING

Security mechanisms:                 NO_SECURITY,HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features:             ACTION,GET,RLRQ_RLRE
                                     SERVICE_SPECIFIC_BLOCK_TRANSFER,SET

Security features:                   ACTIVATE_SECURITY_POLICY,KEY_TRANSFER
                                     SERVICE_SPECIFIC_DED_CIPHERING
                                     SERVICE_SPECIFIC_GLO_CIPHERING

Logical device(s) found:
                                     SAP = 1 is "5A5459313031303730303030303134"
(ZTY1010700000014)

COSEM classes tested:                1,3,4,5,7(1),8,9,11,15(1),17,18,19(1),20
                                     23(1),27(1),29(2),41,42,43,45,47,64,70

COSEM classes found but not tested:  (none)
```