



IEC 61850 Certificate

Level A¹



No. D 092391 0056 Rev. 00

Issued to:

CYG SUNRI CO., LTD.
No. 13, Keji North 1st Road,
North Area of Hi-tech Industrial Park,
Nanshan District, 518057 Shenzhen,
PEOPLE'S REPUBLIC OF CHINA

For the server product:

PRS-778
Transformer Protection
IEC 61850 software version: V2.03
Hardware version: SR7260
S/N: CYSR3020000000218599
SV subscribe: F4000S1I4U4, F4800S1I4U4, F4800S2I0-4U0-4

Issued by:

TÜV SÜD CERTIFICATION AND TESTING (CHINA) CO., LTD.
SHANGHAI BRANCH TESTING CENTER
Building D, No.2059, Duhui Road, Minhang District,
Shanghai, 201 108, People's Republic of China

The server product has not been shown to be non-conforming to:
IEC 61850 Edition 2 with Amendment 1 Parts 6, 7-1, 7-2, 7-3, 7-4, 8-1, 9-2
and IEC 61869 First Edition Part 9
Communication networks and systems for power utility automation

The conformance test has been performed according to IEC 61850-10, the UCA International Users Group Edition 2 with Amendment 1 Server Test Procedures version 1.2 with product's protocol, model and tissues implementation conformance statements: "PRS-778_PICS_Server_Ed2Amd1_V1.00", "PRS-778_MICS_Server_Ed2Amd1_V1.00", "PRS-778_TICS_Server_Ed2Amd1_V1.00" and product's extra information for testing: "PRS-778_PIXIT_Server_Ed2Amd1_V1.00".

The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases / total number of test):

1a Basic Exchange (26/29)	11b SV subscribe (21/22)
2 Data Sets (7/7)	12a Direct Control (9/18)
2+ Data Set Definition (24/24)	12c Enhanced Direct Control (11/20)
3 Substitution (3/3)	12d Enhanced SBO Control (17/28)
4 Setting Group Selection (5/5)	13a Time Synchronization with SNTP (7/8)
4+ Setting Group Definition (14/14)	13b Time Synchronization with PTP (4/4)
5 Unbuffered Reporting (25/26)	14 File Transfer (8/8)
6 Buffered Reporting (35/36)	15 Service Tracking (5/17)
9a GOOSE Publish (11/13)	
9b GOOSE Subscribe (27/27)	

This Certificate includes a summary of the test results as carried out at Shanghai in P.R. China with SimFlex Client Simulator Edition 2 Amendment 1 version 4.4.0 with test suite version 1.2 and Wireshark version 4.4.1. This document has been issued for information purposes only, and the original archived copy of the TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch Testing Center report: No. 705002501107-00 will prevail.

The test has been carried out on the specimen of the product as referred above and submitted to TÜV SÜD by CYG SUNRI CO., LTD.. The manufacturer's production process has not been assessed. This certificate does not imply that TÜV SÜD has certified or approved any product other than the specimen tested.

Shanghai, 2025-07-18

Cong WANG

Cong WANG
Technical Certifier

Yuze Wang

Yuze WANG
Test Engineer

¹ Level A - Independent Test lab with certified ISO/IEC 17025 Quality System

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Applicable Server Test Procedures from the UCA International Users Group Edition 2 Amendment 1
Server Test Procedures version 1.2

Conformance Block	Mandatory	Conditional
1a: Basic Exchange	sAss1, sAss2, sAss3, sAss4, sAssN2, sAssN3, sAssN4, sAssN5, sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrv8, sSrvN1abcd, sSrvN4	sAssN6, sSrv6, sSrv9, sSrv10, sSrv11, sSrv12, sSrv15 sSrvN1e, sSrvN2, sSrvN3
2: Data Sets	sDs1, sDs10a, sDsN1ae	sDs10b, sDs15, sDsN1b, sDsN13
2+: Data Set Definition	sDs2, sDs3, sDs4, sDs5, sDs6, sDs7, sDs8, sDs9, sDs13, sDs14, sDsN1cd, sDsN2, sDsN3, sDsN4, sDsN5, sDsN6, sDsN7, sDsN8, sDsN9, sDsN10	sDs11, sDs12, sDsN11, sDsN12
3: Substitution	sSub1, sSub2, sSub3	
4: Setting Group Selection	sSg1, sSg3, sSgN1	sSg11, sSg13
4+: Setting Group Definition	sSg2, sSg4, sSg6, sSg7, sSg8, sSg10, sSg12, sSgN2, sSgN3, sSgN4, sSgN5	sSg5, sSg9, sSg14
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp16, sRp23, sRpN1, sRpN2, sRpN3, sRpN4, sRpN5, sRpN7, sRpN8, sRpN9	sRp6, sRp7, sRp8, sRp10, sRp11, sRp12, sRp13, sRp15
6: Buffered Reporting	sBr1, sBr2, sBr3, sBr4, sBr5, sBr9, sBr14, sBr16, sBr20, sBr21, sBr22, sBr23, sBr24, sBr25, sBr26, sBr27, sBr28, sBr29, sBrN1, sBrN2, sBrN3, sBrN4, sBrN5, sBrN7, sBrN8, sBrN9, sBrN10	sBr6, sBr7, sBr8, sBr10, sBr11, sBr12, sBr13, sBr15
9a: GOOSE publish	sGop2a, sGop3, sGop4, sGop9, sGop10, sGop11, sGop12	sGop1, sGop2b, sGop5, sGopN2
9b: GOOSE subscribe	sGos1, sGos2, sGos3, sGos5, sGos6a, sGos7, sGos8, sGos9, sGos10, sGos11, sGos12, sGos14, sGos15, sGos20, sGos21, sGos22, sGos23, sGosN1, sGosN2, sGosN3, sGosN4, sGosN5, sGosN6, sGosN7	sGos4, sGos6b, sGos13
11b: Sampled Values subscribe	sSvs1, sSvs2, sSvs3, sSvs4, sSvs5, sSvs6, sSvs7, sSvs8, sSvs9, sSvs10, sSvs11, sSvs14, sSvs15, sSvs16, sSvsN1, sSvsN2, sSvsN3, sSvsN4, sSvsN5, sSvsN6	sSvs13
12a Direct control	sCtl5, sCtl10, sDOs1, sDOs2	sCtl2, sCtl7, sCtl13, sCtl16, sCtl17
12c Enhanced Direct Control	sCtl5, sCtl10, sDOes1, sDOes2	sCtl2, sCtl7, sCtl13, sCtl14, sCtl16, sCtl17, sCtl26
12d Enhanced SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOes1, sSBOes2, sSBOes6, sSBOes8	sCtl2, sCtl4, sCtl6, sCtl7, sCtl16, sCtl17, sCtl26
13a Time sync SNTP	sTm1, sTm2, sTm7, sTmN1	sTm3, sTm5, sTmN2
13b Time sync PTP	sTmP1, sTmP2, sTmPN1	sTmP5
14 File transfer	sFt1, sFt2ab, sFt4, sFt5, sFtN1ab	sFt2c, sFt3, sFtN1c
15 Service tracking		sTrk1, sTrk2, sTrk7, sTrk8, sTrk9

Zertifizierungsvertrag

Grundlage für die Zertifikatserteilung ist die Prüf- und Zertifizierungsordnung der TÜV SÜD Gruppe. Mit Erhalt des Zertifikates erkennt der Zertifikatsinhaber die jeweils gültige Fassung der Prüf- und Zertifizierungsordnung an (www.tuvsud.com/ps-zert) und wird somit Partner im Zertifiziersystem der TÜV SÜD Gruppe.

Prinzipielle Voraussetzung für die Gültigkeit des Zertifikates:

- Gültigkeit der zitierten normativen Prüfgrundlage(n) ist gegeben und zusätzlich bei Zertifikaten mit Berechtigung zur Verwendung eines Prüfzeichens bzw. bei Zertifikaten für QM-Systeme:
- Voraussetzungen für vorschriftsmäßige Fertigung werden eingehalten.
- Die Fertigungs- bzw. Betriebsstätten werden regelmäßig überwacht.

Certification contract

Certification is based on the Testing and Certification Regulations of TÜV SÜD Group. On receipt of the certificate the certificate holder agrees to the current version of the Testing and Certification Regulations (www.tuvsud.com/ps-cert) and thus becomes partner in the Certification System of TÜV SÜD Group.

Requirements for the validity of the certificate in principle:

- Validity of the quoted test standard(s) In addition, for certificates with the right to use a certification mark and for QM certificates:
- Conditions for an adequate manufacturing are maintained
- Regular surveillance of the facility is performed

认证合约

认证基于 TÜV SÜD 集团《测试及认证准则》。获得证书即表明证书持有者接受当前版本的《测试及认证准则》（见 www.tuvsud.com/ps-cert）并成为 TÜV SÜD 集团认证系统内的合作伙伴。

维持证书有效性的原则要求:

- 认证所依据标准的有效性
- 此外，对于授权可使用认证标志的证书和质量管理体系证书：
- 保持充分的生产条件
 - 生产场地通过定期的监督

認証契約

認証は TÜV SÜD Group の試験認証規約に基づく。認証書保持者は認証書を受領することにより最新の試験認証規約(www.tuvsud.com/ps-cert)に同意したものである。その結果、TÜV SÜD Group 認証システムのパートナーとなる。

認証書の有効性に関する原則的な要求事項

- 引用している試験規格が有効である
- さらに認証マークの使用を許諾された認証書や品質マネジメント認証書は：
- 適切な製造の条件を維持している
 - 定期的な工場監査を実施している

Contrato de certificação

A certificação se baseia nos Regulamentos de Testes e Certificação do Grupo TÜV SÜD. Ao receber o certificado, o Fornecedor, titular do certificado concorda com a versão atual dos Regulamentos de Testes e Certificação do Grupo TÜV SÜD (www.tuvsud.com/ps-cert) e assim, torna-se parceiro no Sistema de Certificação do Grupo TÜV SÜD.

Requisitos para a validade do certificado (em princípio):

- Validade da(s) norma(s) de ensaio(s) referenciada(s).
- Adicionalmente, para os certificados com o direito ao uso da marca de certificação e para certificados de SG:
- Condições de fabricação adequada estão mantidas.
 - Auditoria de monitoração realizada regularmente.