



## No. D 061589 0198 Rev. 00

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, sSrv13, sSrv15 sSrvN1e, sSrvN2, sSrvN3
2: Data Sets	sDs1, sDs10a, sDsN1ae	sDs15
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, sRp17
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, sBr17
9a: GOOSE publish	sGop2a, sGop3, sGop4, sGop9, sGop10, sGop11, sGop12	sGop1, sGop6, sGopN1, 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
9c: GOOSE mngt	sGom1, sGom2, sGomN1	
11b: Sampled Values subscribe	sSvs1, sSvs2, sSvs3, sSvs4, sSvs5, sSvs6, sSvs7, sSvs8, sSvs9, sSvs10, sSvs11, sSvs14, sSvs15, sSvs16, sSvsN1, sSvsN2, sSvsN3, sSvsN4, sSvsN5, sSvsN6	sSvs12, sSvs13
12a Direct control	sCtl5, sCtl10, sDOns1, sDOns2	sCtl2, sCtl7, sCtl13, sCtl15, sCtl16, sCtl17, sCtl18
12b: SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOns1, sSBOns2, sSBOns6, sSBOns8	sCtl2, sCtl4, sCtl7, sCtl15, sCtl16, sCtl17, sCtl18, sCtl27
12c: Enhanced Direct Control	sCtl5, sCtl10, sDOes1, sDOes2	sCtl2, sCtl7, sCtl13, sCtl14, sCtl15, sCtl16, sCtl17, sCtl18, sCtl26
12d Enhanced SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOes1, sSBOes2, sSBOes6, sSBOes8	sCtl2, sCtl4, sCtl7, sCtl15, sCtl16, sCtl17, sCtl18, 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, sFtN1c
15: Service tracking		sTrk1, sTrk2, sTrk4, sTrk7, sTrk8, sTrk9, sTrk17

All configuration file and data model tests have been successfully performed for the product variants using the same communication hardware and software version:

- PCS-915SC Centralized Busbar Relay
- PCS-915SD Distributed Busbar Relay
- PCS-921S Breaker Failure Relay
- PCS-924S Stub Differential Relay
- PCS-931S Line Differential Relay
- PCS-978S Transformer Relay
- PCS-994S Frequency and Voltage Controller
- PCS-996S Phasor Measurement Unit
- PCS-997S Line Fault Locator
- PCS-9611S Feeder Relay
- PCS-9613S Differential Relay
- PCS-9631S Capacitor Relay
- PCS-9641S Motor Relay
- PCS-9671S Transformer Relay
- PCS-9705S Bay Control Unit

### 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](http://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](http://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](http://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](http://www.tuvsud.com/ps-cert))に同意したものとす。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](http://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.