



UCAlug Testing Program

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UCAlug Testing Program

- **IEC 61850**
 - **Conformance**
 - **Started 2005**
 - **Continuous Service**
 - **IOP**
 - **Started 2011**
 - **Bi Annual**
- **CIM IOP**
 - **Started 2011**
 - **OnHold**
- **Green Button ITCA**
 - **Starting 2014**
 - **Initial experience with ITCA process**

UCAlug Conformance Testing QAP

- The Quality Assurance Program [QAP] provides guidelines for operating the program.
 - The Testing Scheme/Rules for
 - TL Accreditation Process
 - Becoming Accredited/Audits
 - Testing Procedures [requirements the TLs Test Tool must follow
 - TL Audits
 - List of Approved TLs
 - List of Certs for Vendor Devices
- To the outside testing world, UCAlug serves as an IEC Guide65 Organization
- UCAlug Accredits Tester Labs [TLs]
- Vendors go to TLs to have devices tested and an Test Certificate [Cert] Issued
- TLs conduct tests and prepares the Cert bearing the UCAlug logo, along with the TLs TL sends the Cert to UCAlug
- UCAlug reviews the Cert and when approved, posts it to one of five Cert lists on the Testing site



Status:

UCAlug IEC61850 Conformance Testing

- **QAP Docs in place**
- **Test Committee meets weekly-biweekly**
- **10 Test Labs**
- **480 Device Certificates**

UCAIug Accredited Labs

Type	Lab	Year	Level	Version	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Server	ABB	2006	B		●	●	●	●	●	●	●		●		●	●	●	●		
Goose	ABB	2012	B	1.2									●							
Server	Alstom	2009	B		●	●		●	●	●			●			●	●	●		
Server	CPRI	2008	A		●	●	●	●	●	●			●			●	●	●		
Server	KEMA	2005	A	Ed1	●	●		●	●	●			●			●	●	●		
Client	KEMA	2009	A	Ed1	●	●	●	●	●	●						●	●	●		
92LE	KEMA	2010	A	Ed1											●					
Server	KEMA	2013	A	Ed2	●	●	●	●	●	●			●			●	●	●	●	
Server	KERI	2013	A	Ed1	●		■ ■	■ ■	●	●			●			■ ■	●	●		
Server	KETOP	2009	B		●	●	●	●	●	●			●			●	●	●		
Client	KTL	2013	A	Ed1	●	■ ■		■ ■	●	●						■ ■	●	●		
Server	NARI	2008	B	Ed1	●	●	●	●	●	●			●			●	●			
Server	Schneider Electric	2012	B	Ed1	●	●		●	●	●			●			●	●	●		
Server	TUV SUD	2012	A	Ed1	●	■ ■			●	●						■ ■	●			
Server	TUV SUD	2013	A	Ed1	●	● ●	●	■ ■	●	●			●			■ ■	●	●		
Passed		●																		
Exceptions +/-		■ ■																		

61850 Certificate Count by Year

