

Quad Charts

PAP 01 through 18

BnP DEWG

June 14, 2011

Program Management Office



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Status of PAP01: Role of IP in the Smart Grid

Updated June 8, 2011

Overall PAP Status:

Date	Updated By	Latest PAP Status
2011-06-08	Vishant Shah	In December 2010, the Governing Board recommended "Internet Protocols for the Smart Grid" be included in the Catalog of Standards. The SGiP Plenary will vote on this recommendation. The IETF is expected to publish an Authors' Final Review (AUTH48 State) on Monday, June 13. TPMO 6-8 depends on SSO publishing D2 as does T2.

A#	Current Activities and Accomplishments	S	D#	Deliverables
A8	D2 handoff to IETF SSO (Nov 2010)	✓	D1	Requirements for different Smart Grid applications
A9	CSWG & SGAC reviews complete (Nov 2010)	✓	D2	Identify Core set of IP protocols
A10	Governing Board recommended RFC be included in Catalog of Standards (Dec 2010)			

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
17	Network management, QoS issues should be addressed by SGiP . IP Suite WG created	✓	TPMO1	PAP Initiation	2009-09	2009-09	SGiP	
18	CSWG to work with IETF on cyber review of older standards	✓	TPMO2	SSO Identified	2009-11	2009-11	Open SG-net IETF	D1, D2
19	In December 2010, the Governing Board recommended "Internet Protocols for the Smart Grid" be included in the Catalog of Standards. The RFC was being sent to IETF's RFC Editor last week. TPMO 6-8 depends on SSO publishing D2 as does T2.	✓	TPMO3	Requirements Handoff to SSO	2010-11	2010-11	IETF - Fred Baker	D2
		✓	TPMO4	Standards Handback to PAPWG from SSO	2010-11	2010-11	IETF - Fred Baker	D2
		✓	TPMO5	GB/SGiP Vote	2010-12	2010-12	Administrator	D2
		🟡	TPMO6	SGiP Plenary Vote			Administrator	D2
		🟡	TPMO7	Post to Catalog or IKB			PAP01WG	D2
		🟡	TPMO8	Close PAP			PAP01WG	D2
S	T#	PAP Work Tasks			Due	Actual	Resp	D#
✓	T1	Develop a set of requirements for different Smart Grid applications			Dec 2009	Dec 2009	Open SG-net	D1
🟡	T2	Identify a core Protocol Suite for IP-based Smart Grid			Apr 2011		IETF	D2
✓	T3	Develop application specific protocol requirements			Jul 2010	Jul 2010	Open SG-net	D1
✓	T4	Meet at OpenSG on July 22			Jul	Jul	PAP	

to develop action plan

2010 2010

Status	Schedule	Deliverables	Resources
January 2010			
February 2010			
March 2010			
April 2010			
May 2010			
June 2010			
July 2010			
August 2010			
Sep 2010			
Oct 2010			
Nov 2010			
Dec 2010			
Jan 2011			
Feb 2011			
Mar 2011			
Apr 2011			

Status of PAP02: Wireless Communications for the Smart Grid (6.1.5)

Updated June 8, 2011.

Overall PAP Status:

Date	Updated By	Latest PAP Status
2011-06-08	Vishant Shah	The Governing Board recommended NIST IR Guidelines for Assessing Wireless Standards be included in the Catalog of Standards. The SGIP Plenary will vote on this recommendation. The WG is collecting information and preparing a Version 2.0 update, see B TPMO Tasks.

A#	Current Activities and Accomplishments	S	D#	Deliverable
A6	Version 1.0 Draft Guidelines for Assessing Wireless Standards for Smart Grid Application is now moving through final SGIP Processes for Publication	✓	D1	Application Communication Requirements Matrix Template
		✓	D2	Application Communication Requirements Matrix
A9	Plans and Activities are underway for followon work to enhance the Guidelines. Current activities surround enhancing the terrain, topology and clutter models for the next version of the guidelines. Models are being reviewed as well as standard definitions for terrain and wireless performance modeling. These models once adopted will become a part of the next version of the guidelines document.	✓	D3	Wireless Capability Matrix Template
		✓	D4	Wireless Capability Matrix
		✓	D5	Guidelines on Wireless Assessment
A10	Open SG, Other Priority Action Plans and Industry at large continues to develop requirements for next generation applications. These will be brought into the sample analyses for the next version of the guidelines.			

I#	Issues, Concerns & Help Needed
I3	PAP encompasses a broad scope that covers many standards and associated technologies from multiple SDO organizations
I4	Decision making on Wireless technologies remains a local decision. This requires the industry to understand the techniques and tools available in these guidelines.

S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
✓	TPMO1	PAP Initiation	2009-08	2009-08	Administrator	
The "A" TPMO Tasks listed below are for NISTIR Version 1						
✓	A-TPMO2	SSO Identified	2009-12	2009-12	PAP02WG	
✓	A-TPMO3	Requirements Handoff to SSO	2010-01	2010-08	PAP02WG	
✓	A-TPMO4	Standards Handback to PAPWG from SSO (NISTIR Version 1)	2011-03	2011-03	NIST	
✓	A-TPMO5	GB/SGIP Vote	2011-04	2011-04	Administrator	
🔄	A-	SGIP Plenary	2011-		Administrator	

	TPMO6	Vote	05				
	A-TPMO7	Post to Catalog or IKB	2011-06		PAP02WG		
The "B" TPMO Tasks listed below are for NISTIR Version 2							
	✓ B-TPMO2	SSO Identified	2009-12	2009-12	PAP02WG		
	B-TPMO3	Requirements Handoff to SSO	TBD		PAP02WG		
	B-TPMO4	Standards Handback to PAPWG from SSO (NISTIR Version 2)	TBD		NIST		
	B-TPMO5	GB/SGIP Vote	TBD		Administrator		
	B-TPMO6	SGIP Plenary Vote	TBD		Administrator		
	B-TPMO7	Post to Catalog or IKB	TBD		PAP02WG		
	TPMO8	PAP Complete	TBD		PAP02WG		
	S	T#	PAP Work Tasks	Due	Actual	Resp	D#
	✓	T1	NIST Technical Wireless Evaluation Model Development	Dec 2009	Dec 2009	NIST Technical	D5
	✓	T2	SSO Requirements Development by Open SG Net	May 2010	May 2010	Open SG Net	D1,D2
	✓	T3	SSO Wireless Capabilities Matrix	Jan 2010	Aug 2010	IEEE 802, 3GPP,3GPP2, ATIS, TIA	D3,D4
	✓	T4	Draft Smart Grid Wireless Guidelines Report	July 2010	Nov 2010	PAP 2 and SSO Contributors	D5
	✓	T5	PAP2 votes on Wireless Guidelines Report to be published as NISTIR	January 2011	January 2011	PAP2/NIST	D5
	🔴	T6	Revisions of the	July-		SSOs	D4

	wireless characterization matrix	2011			
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Status	Schedule	Deliverables	Resources
January 2010			
February 2010			
March 2010			
April 2010			
May 2010			
June 2010			
July 2010			
Aug 2010			
Sept 2010			
Oct 2010			
Nov 2010			
Dec 2010			
Jan 2011			
Feb 2011			
March 2011			
April 2011			
May 2011			
June 2011			

Status of PAP03: Develop Common Specification for Price and Product Definition

Updated June 16, 2011.

Overall PAP Status:

Date	Updated By	Latest PAP Status
2011-06	William Cox	Awaiting output from SSO. 1Q2011 deliverables (TP05-TPM08) are delayed pending SSO output. OASIS Energy Market Information Exchange is planning to vote on starting Public Review 03 on June 23. Expected completion is July 2011.

A#	Current Activities and Accomplishments	S	D#	Deliverables
A28	Worked through UCA and IRC issues for EMIX to ensure mutual understanding	✓	D1	High level scoping document
A29	Using work in Houston Tiger Team to improve specification and examples	✓	D2	Price use cases and requirements
A30	Awaiting public review of EMIX	✓	D3	Information model and summary of product characteristics of interest to energy consumers
		✓	D4	Draft price and product definition specification to others
		✓	D5	Requirements Evaluation and Artifacts
		✗	D6	Deliverables Evaluation and Artifacts

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
I1	Need focused coordination with DER & PEV PAPs and to include specific tasks in PAP09 and PAP11	✓	TPMO1	PAP Initiation	2009-07	2009-07	PAP03WG	TWiki
I8	Need to integrate PAP07 requirements. See T13.	✓	TPMO2	SSO Identified	2009-07	2009-07	PAP03WG	TWiki
I9	Will use Tiger Team to examine deliverables of PAP03/04/09 and others in context.	✓	TPMO3	Requirements Handoff to SSO	2010-07	2010-07	PAP03WG	D5
		✗	TPMO4	Standards Handback to PAPWG from SSO*	2011-03		OASIS, ZigBee	D6
		✗	TPMO5	GB/SGIP Vote	2011-04		Administrator	
		✗	TPMO6	SGIP Plenary Vote	2011-04		Administrator	
		✗	TPMO7	Post to Catalog or IKB	2011-04		PAP03WG	
		✗	TPMO8	Close PAP	2011-04		PAP03WG	N/A

NOTE: The PAP03 WG is awaiting output from SSO

*The dates were changed to reflect the FINAL occurrence of these steps from the INITIAL occurrence of these steps.

S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T1	Develop high level scoping document	2009-11	2009-11	NAESB	D1
✓	T2	Develop price and product definition use cases & requirements	2009-11	2010-04	NAESB	D2
✓	T3	Meet and present status on deliverables at Grid-Interop	2009-11	2009-11	PAP03WG	D1
✓	T4	Plan to import and use material from PAP04	2009-12	2009-12	NAESB	D2
✓	T5	Plan to import and use material from PAP04	2009-12	2009-12	OASIS	D3
✓	T6	Plan to import and use material from PAP04	2009-12	2010-05	ZigBee	D3
✓	T7	Data model draft publicly visible	2010-02	2010-02	OASIS	D3
✓	T8	Data model draft publicly visible	2010-02	2010-04	ZigBee	D3
✓	T9	Draft price and product definition specification to others	2010-04	2010-05	OASIS	D4
✓	T10	Draft price and product definition specification to others	2010-04	2010-04	ZigBee	D4
✓	T11	Requirements evaluation; define scope/schedule/deliverables	2010-06	2010-06	PAP03WG	D5
●	T12	Deliverables evaluation; define scope/schedule/deliverables [subsumed by TPM05 above]	N/A	N/A	PAP03WG	D6
✓	T13	Deliver requirements from PAP07 to OASIS Energy Market Information Exchange TC	2010-10	2010-10	PAP07	D2

Status	Schedule	Deliverables	Resources
January 2010	●	●	●
February 2010	●	●	●
March 2010	●	●	●
April 2010	●	●	●
May 2010	●	●	●
June 2010	●	●	●
July 2010	●	●	●
August 2010	●	●	●
September 2010	●	●	●

October 2010			
November 2010			
December 2010			
January 2011			
February 2011			
March 2011			
April 2011			
May 2011			
June 2011			

Status of PAP04: Develop Common Schedule Communication Mechanism for Energy Transactions

Updated June 16, 2011.

Overall PAP Status:

Date	Updated By	Latest PAP Status
2011-06	William Cox	Awaiting output from SSO. 1Q2011 deliverables (TP05-TPM08) are delayed pending SSO output. OASIS WS-Calendar has approved Public Review 03 (see this page for links). Expected completion is June/July 2011.

A#	Current Activities and Accomplishments	S	D#	Deliverable
A30	The PAP04WG determined that the Public Review Draft of WS-Calendar met the NAESB and PAP04WG requirements November 2010	✓	D1	Update pre-existing IETF standards for extensibility
A35	New schemas greatly simplify use and explanation of WS-Calendar. Specification updated,	✓	D2	Standard XML Serialization for Bi-directional Translation
A39	The Formal Public Review for WS-Calendar has been published; comments requested by April 24. See Hot Links for details	✓	D3	Use cases and requirements to test the standard
A40	The Formal Public Review for WS-Calendar has completed. The PAP04WG is awaiting the last public review.	✓	D4	Associated semantics for schedule performance related to WS-Calendar standard
A41	The IETF is preparing a standards track RFC for the WS-Calendar extensions to the iCalendar RFCs	✓	D5	Create essential WS APIs for Calendars and Schedules
		✓	D6	Develop improved WS Calendar: Align semantics across SDOs

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
I2	Other PAPs need to clarify their consumption of PAP04 output and coordinate as necessary.	✓	TPM01	PAP Initiation	2009-07	2009-07	SGIP	
I5	ZigBee has not clearly addressed PAP04 in its work to date (See PAP03 tables)	✓	TPM02	SSO Identified	2009-07	2009-07	SGIP	
I6	Need to integrate PAP07 requirements in Public Review Draft (addressed here and in PAP03)	✓	TPM03	Requirements Handoff to SSO	2009-12	2009-12	NAESB	D3
		✓	TPM04-1	First Standards Handback to PAPWG from SSO	4Q2010	2010-09	OASIS (1st Public Review)	
		🟡	TPM04	Standards Handback to PAPWG from SSO	2Q2011		OASIS Final	
		🔴	TPM05	GB/SGIP Vote	2011-1Q		Administrator	
		🔴	TPM06	SGIP Plenary Vote	2011-1Q		Administrator	
		🔴	TPM07	Post to	2011-		PAP04WG	

	Catalog or IKB	1Q		
	TPM08	PAP Complete	2011-04	PAP04WG

NOTE: The PAP04 WG is awaiting output from the SSO

S	T#	PAP Work Tasks	Due	Actual	Resp	D#
	T1	Update IETF iCalendar format to allow extensibility	2010-01	2009-09	CalConnect	D1
	T2	Standard XML serialization of extensible iCalendar out for public review	2010-01	2009-11	CalConnect	D2
	T3	Standard APIs for Calendar-to-Calendar communications for inclusion in WS-Calendar	2010-08	2010-09	CalConnect	D4
	T4	Submit output of T2 to IETF for approval as Standards Track RFC	2010-05	2010-05	CalConnect	D1
	T5	Develop Smart Grid use cases and requirements for for use in WS-Calendar	2009-10	2010-04	NAESB	D3
	T6	Create Committee to develop service-oriented schedule profiles based on IETF xCalendar and APIs (WS-Calendar)	2010-01	2010-01	OASIS	D5
	T7	WS-Calendar work out for public review	2010-04	2010-05	OASIS	D5
	T8	Submission of WS-Calendar public review draft to IEC Power Management CIM	2010-05	2010-05	OASIS	D6
	T9	Development of Requirements by PAPWG [See NOTE]	2010-07	2010-07	PAP04WG	D3
	T10	Standards Handback to PAPWG from SSO	2010-4Q	2010-11	OASIS	D6

NOTE: Original [D3](#) completed; T9 addresses high level requirements from the NIST Framework and Roadmap.

Status	Schedule	Deliverables	Resources
January 2010			
February 2010			

March 2010			
April 2010			
May 2010			
June 2010			
July 2010			
August 2010			
September 2010			
October 2010			
November 2010			
December 2010			
January 2011			
February 2011			
March 2011			
April 2011			
May 2011			
June 2011			

Status of PAP05

Updated May 17, 2011.

Overall PAP Status:

Date	Updated By	Latest PAP Status
2011-05-23	Aaron Snyder	The PAPWG and the PMO are awaiting a response from AEIC.

A#	Current Activities and Accomplishments	S	D#	Deliverables
A26	The PAPWG has delivered the recommendation to the SGIP PMO and awaits further direction. The SGIP GB did not discuss this PAP during the May 12 session.	✓	D1	Utility requirements mapping
		✓	D2	Expression of AEIC v2.0 Guidelines in terms of additional device class(es)
		✓	D3	Revision of AEIC v1.0 Guidelines
		✓	D4	Data type profiles for specific Use Case(s)
		✓	D5	White Paper/Presentation on ANSI metering protocol standards
		✓	D6	New capabilities as developed during PAP05 work
		✓	D7	Publicly available training materials
		✓	D8	Design Document
		✓	D9	Analysis
		✓	D10	Use Cases and Requirements
		✓	D11	Gap Report

I#	Issues, Concerns & Help Needed
I10	SSO output did not change; unknown implications for closeout process.

S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
✓	TPMO1	PAP Initiation	2009-08	2009-08	PAP05WG	TWiki
✓	TPMO2	SSO Identified	2009-08	2009-08	PAP05WG	TWiki
✓	TPMO3	Requirements Handoff to SSO	2009-08	2009-08	PAP05WG	TWiki
✓	TPMO4	Standards Handback to PAPWG from SSO	2010-08	2010-08	AEIC	1,2,6,8
🟡	TPMO5	GB/SGIP Vote*	2011-05		Administrator	
🟡	TPMO6	SGIP Plenary Vote*	2011-05		Administrator	
🟡	TPMO7	Post to Catalog or IKB*	2011-05		PAP05WG	
🟡	TPMO8	Close PAP*	2010-06		PAP05WG	N/A
S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T1	Map utility requirements expressed via	05/2010	08/18/2010	AEIC AMTI	D1

		AEIC Guidelines v2.0 to Device Classe				
✓	T2	Express AEIC Guidelines v2.0 in terms of one or more additional Device Classe	05/2010	08/18/2010	AEIC AMTI	D2
✓	T3	Complete revision of AEIC Guidelines v2.0	12/2009	12/11/2009	AEIC AMTI	D3
✓	T4	Minimize the variations in data types transported from and to End Devices (real-time communication and enterprise data representations).	01/2010	03/22/2010	AEIC AMTI	D4
✓	T5	Socialize the existence of additional Tables within ANSI C12.21-2006 and C12.22-2008 via WP/PPT report.	05/2010	05/25/2010	Team Members	D5
✓	T6	Provide definitions and recommendtaions for Function Control Limiting Table values and general configuration.	05/2010	08/18/2010	AEIC AMTI	D6
✓	T7	Develop education package around ANSI C12.18-2006, C12.19-2008, C12.21-2006 and C12.22-2008.	04/2010	05/17/2010	Team Members	D7
✓	T8	Minimize variation and maximize interoperability of Application Services and	06/2010	08/18/2010	AEIC AMTI	D8

		behaviors within ANSI C12.18-2006, ANSI C12.19-2008, ANSI C12.21-2006 and ANSI C12.22-200				
✓	T9	PAP05WG to analyze D3; initial analysis on 9/13/2010	10/2010	11/29/2010	PAP05WG	D9
✓	T10	Report on Framework-based Use Cases and Requirements.	10/2010	11/29/2010	PAP05WG	D10
✓	T11	Create and deliver Gap Report.	09/2010	08/06/2010	AEIC AMTI	D11

Status	Schedule	Deliverables	Resources
January 2010			
February 2010			
March 2010			
April 2010			
May 2010			
June 2010			
July 2010			
August 2010			
September 2010			
October 2010			
November 2010			
December 2010			
January 2011			
February 2011			
March 2011			
April 2011*			
May 2011			

Status of PAP06

Updated May 17, 2011.

Overall PAP Status:

Date	Updated By	Latest PAP Status
2011-05-23	Aaron Snyder	There is an agreed-upon plan of completion to wrap-up by the September GB meeting. The next step is to complete a companion white paper to the developed UML and EDL models. See this page .

A#	Current Activities and Accomplishments	S	D#	Deliverables
A20	PAPWG agreed to a plan to completion. See this page .	✓	D1	Key Use Cases
		✓	D2	Requirements
		✓	D3	UML meta model of ANSI C12.19-2008
		✓	D4	UML/TDL Binding
		🚫	D5	UML model refinement
		🚫	D6	Gap/Overlap Report C12.19/61968-9
		🚫	D7	SGAC Endian Issue

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
17	Will send the 'endian' issue to SGAC to manage; SSO has agreed to do work and PAPWG is not needed to manage the deliverable.	✓	TPMO1	PAP Initiation	2009-08	2009-08	PAP06WG	TWiki
		✓	TPMO5	SSO Identified	2010-04	2010-04	PAP06WG	TWiki
		✓	TPMO7	Requirements Handoff to SSO*	2010-11	2010-11	PAP06WG	D2
		🚫	TPMO8	Standards Handback to PAPWG from SSO*	2011-06		SSO	D3/D4/D5
		🚫	TPMO	GB/SGIP Vote*	2011-09		Administrator	
		🚫	TPMO	SGIP Plenary Vote*	2011-09		Administrator	
		🚫	TPMO	Post to Catalog or IKB*	2011-10		PAP06WG	
		🚫	TPM10	Close PAP*	2011-10		PAP06WG	
S	T#	PAP Work Tasks		Due	Actual	Resp	D#	
✓	T1	Identify key use cases (should occur before mappings are performed)		2010-11	2011-03	PAP06WG	D1	
✓	T2	Requirements development		2010-11	2010-11	PAP06WG	D2	

✓	T3	Construct a meta model of ANSI C12.19-2008 that illustrates the class hierarchy represented by Decades, Tables and components of Tables including core data types. Build the model in UML.*	2010-11	2010-05	PAP06WG	D3
✓	T4	Using a TDL machine readable representation, implement software to import the complete ANSI C12.19 table definitions into the UML model. Use appropriate inheritance to bind elements to the class herarchy assembled in T3.*	2011-03	2010-05	MBurns	D4
●	T5	Refine the UML model to correspond to the abstract semantic model being developed by the SGIP SGAC (dependency!)	2011-06		PAP06WG	D5
●	T6	Produce a side-by-side comparison of the ANSI C12.19 UML model and the IEC 61968-9 UML model to illustrate gaps and overlaps; create Gap/Overlap report.*	2011-06		MBurns	D6
●	T7	Address "endian" concern raised by SGAC review of PAP05 AEIC guidelines.	2011-12		ANSI SC17WG2, IEEE SCC31-1377, MC TF EMD	D7

Status	Schedule	Deliverables	Resources
March 2010	●	●	●
April 2010	●	●	●
May 2010	●	●	●
June 2010	●	●	●
July 2010	●	●	●
August 2010	●	●	●
September 2010	●	●	●
October 2010	●	●	●
November 2010	●	●	●
December 2010	●	●	●
January 2011	●	●	●
February 2011	●	●	●

March 2011			
April 2011			
May 2011			

Status of PAP07: Energy Storage Interconnection Guidelines

Updated May 23, 2011.

Overall PAP Status:

Date	Updated By	Latest PAP Status
2011-05-23	Frances Cleveland	<p>PAP team awaiting handback from SSOs (IEEE, IEC, and UL):</p> <ul style="list-style-type: none"> IEC receiving additional input for 61850-90-7 from EPRI and European manufacturers IEEE 1547.8 second draft being completed. Ready for review by June. UL 1741 storage safety standard requirements not started (dependency issue)

A	Current Activities and Accomplishments	
A1	(May 2010) The balloting for IEEE 1547.6 is completed. The balloting for IEEE 1547.4 is underway.	
A2	(June 2010) IEC 61850 information models were developed for some of the key Use Cases, and have been submitted to the IEC TC57 WG17. These additions to IEC 61850-7-420 were reviewed by WG17 during the September 27-29 meeting in Montreal (see A6).	
A3	(August 2010) The first meeting of the IEEE 1547.8 was held in August, with multiple sub-groups formed to work on specific issues.	
A4	(August 2010) Mapping of 61850 DER models to SEP had multiple very successful meetings. Preliminary mappings have been accomplished, and consistency checking with other UML modeling of 61850 is underway. See A7 for updates on this process.	
A5	(September 2010) Face-2-face meeting at the SGiP St. Louis meeting discussed what supporting activities should be done while PAP 7 goes into "monitoring and support" mode. The results are that PAP 7 will clean up the Scoping Document and turning it into a White Paper, developing the testing and certification requirements, and following up on ES-DER projects such as the IRC efforts and EPRI's Inverter Specifications. Cyber security issues were left to be handled in some other forum.	
A6	(October 2010) Met with IEC TC57 WG17 to discuss PAP 7 submittals. These were eagerly accepted for review, with the European vendors especially anxious to get a document they could use for production. In order to get such a document rapidly, it was agreed that a (informative) Technical Report (IEC 61850-90-7) would be developed by the end of November, for approval by National Committees within a couple of months - by March or April 2011. The vendors felt they could use this document, even though it was only informative (not normative) and details might change. In parallel, the longer, consensus-driven process for a normative standard (IEC 61850-7-420, edition 2) would be commenced, with the plan for standardization by 2012.	
A7	(October 2010) Mapping to both DNP3 and SEpv2 are in process. The DNP3 mapping is almost complete. The SEP effort has developed the basic 61850 models, but still needs to determine how to handle arrays and schedules. WS-calendar needs to be reviewed to determine if it can handle at least the basic scheduling.	
A8	(October 2010) Cross-PAP and cross-modeling issues still need discussions. One approach has been discussed between 61850 and CIM, which is for CIM to model the primary 61850 Common Data Classes (CDCs) as complex datatypes in the CIM. This would simplify the retrieval of field data into the CIM.	
A9	(December 2010) Update on IEC 61850 submittal: An IEC Technical Report, IEC 61850-90-7, is being submitted by mid December to the IEC for approval by National Committees as an Informative standard.	
A10	(December 2010) Update on IEEE 1547.8: the first draft is almost available for review.	
A11	(March 2011) IEC 61850-90-7 has benefitted from significant additional input from EPRI and from European manufacturers. Therefore, its submittal to the IEC has been delayed - it is expected during June, 2011.	
S	D#	Deliverable

✓	D1	Task 0 Activities: Development of Scoping Study Document (MS Word version)
✓	D2	Task 1a Use Cases: List of ES-DER Use Cases (organized by type) (MS Word version)
✓	D3	Task 4 Use Cases Descriptions for Key ES-DER Use Cases (MS Word version) - 1st draft complete
✓	D4	Completing IEEE 1547.4 & .6 per IEEE rules See IEEE 1547 Web Page
✓	D5	Initiated PAR for IEEE 1547.8 per IEEE rules See IEEE 1547 Web Page
✓	D6	Information Exchange requirements for key ES-DER Use Cases submitted to IEC TC57 17

I Issues, Concerns & Help Needed		
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- 11 **(May 2010)** See Task 4f: Need to develop an IEC 61850 UML model, expressed in Enterprise Architect, so that harmonization with CIM can be more precisely described and so that mappings to protocols like SEP 2.0 can use this same UML model for that mapping. **This has been accomplished -October 2010.**
- 12 **(October 2010)** With IEC 61850 now (almost) available as a UML model in Enterprise Architect, harmonization with CIM should include the development in CIM of complex datatypes which map directly to 61850 Common Data Classes. This would greatly simplify the interface between 61850 and CIM. Possibly the [SGIP Architecture Committee \(SGAC\)](#) could review this proposal and determine if and how they might progress the concept.

S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
✓	TPMO1	PAP Initiation	2009-08	2009-08	SGIP	
✓	TPMO2	SSO Identified	2009-08	2009-08	PAP 7	
✓	TPMO3	Requirements Handoff to SSO	2010-06	2010-06	PAP 7	D3 & D5

The "A" TPMO Tasks listed below are for the IEEE 1547.8 Standard

🟢	A-TPMO4	Standards Handback to PAPWG from SSO	2011-12		IEEE 1547.8 WG	
🟢	A-TPMO5	GB/SGIP Vote	2012-04		Administrator	
🟢	A-TPMO6	SGIP Plenary Vote	2012-04		Administrator	
🟢	A-TPMO7	Post to Catalog or IKB	2012-04		PAP07WG	

The "B" TPMO Tasks listed below are for the IEC 61850-90-7 Standard

🟢	B-TPMO4	Standards Handback to PAPWG from SSO	2011-10		IEC TC57 WG17	
🟢	B-TPMO5	GB/SGIP Vote	2012-02		Administrator	
🟢	B-TPMO6	SGIP Plenary Vote	2012-02		Administrator	
🟢	B-TPMO7	Post to Catalog or IKB	2012-02		PAP07WG	

The "C" TPMO Tasks listed below are for the UL 1741 Standard

🟢	C-TPMO4	Standards Handback to PAPWG from SSO	2012-02		UL	
🟢	C-TPMO5	GB/SGIP Vote	2012-06		Administrator	
🟢	C-TPMO6	SGIP Plenary Vote	2012-06		Administrator	
🟢	C-TPMO7	Post to Catalog or IKB	2012-06		PAP07WG	

🟢	TPMO8	Close PAP	2012-08		PAP07WG	
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S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T0	Scoping Document Draft v1	Nov-2009	Nov 2009	PAP 7	D1
✓	T1	Collect Use Cases with Brief Narratives	Mid-Feb-2010	Mid-Feb list of Use Cases was completed	PAP 7 members	D2
✓	T2	Complete IEEE 1547.4 (Draft Guide for Design, Operation, and Integration of Distributed Resource Island Systems with Electric Power System) & .6 (Draft Recommended Practice For Interconnecting	Aug-2010	1547.4 is currently in ballot, as per IEEE 1547 balloting schedule, and due for final release by July/August 2010. 1547.6 is in pre-ballot and is expected	IEEE 1547	D4

	Distributed Resources With Electric Power Systems Distribution Secondary Networks)		to be released by December 2010		
✓	T3	Initiate IEEE 1547.8 to address interconnection issues of storage (title not known yet)	Feb-2010	IEEE PAR approved in March, with first meeting scheduled for August 2010	IEEE 1547 D5
✓	T4	Prioritize and develop details for key ES-DER Use Cases	Mar-2010	April 5 2010	NIST & PAP 7 D3
✓	T4a	Provide key ES-DER Use Cases to PAPs 3, 4, and 9, and discuss whether the ES-DER schedules and pricing signal requirements are covered adequately	April 2010	April 2010: Use Cases were provided	PAP 7, PAPs 3, 4, 9 D3
✓	T4b	Provide key ES-DER Use Cases to PAP 10 and discuss whether ES-DER issues are adequately covered under Energy Usage	April 2010	April 2010: Use Cases were provided - PAP 10 has deferred ES-DER considerations	PAP 7, PAP 10 D3
✓	T4c	Provide key ES-DER Use Cases to PAP 11 and discuss if additional PEV Use Cases need to be added to ES-DER Use Cases	June 2010	May 25: Use Cases were provided to PAP 11, discussions are taking place	PAP 7, PAP 11 D3
✓	T4d	Provide key ES-DER Use Cases to PAP 16 and discuss if any addition actions need to be taken by PAP 16 for handling Wind plus ES-DER	April 2010	April 2010: Use Cases were provided - no specific issues found at this time - the IEC TC57 WG17 may pick up later	PAP 7, PAP 16 D3
✓	T4e	Develop Information Exchange requirements for key ES-DER Use Cases	June 2010	June 2010	PAP 7 D3
✓	T4f	Hand off Information Exchange requirements for key ES-DER Use Cases to IEC TC57 WGs 14 & 17	June 2010	June 2010: Object modeling requirements handed off to IEC TC57 WG17	PAP 7 D6
✓	T5	SDOs to start development of safety codes and test methods to ensure safe and reliable implementation of Task 3 - specifically UL 1741	Aug 2010	August 2010: UL has officially initiated the process to revise UL 1741	UL D5
🟡	T6a	Review and approve P1547.8 results as meeting PAP 7 requirements	Jan 2012		PAP 7
🟡	T6b	Review and approve IEC 61850-90-7 results as meeting PAP 7 requirements	Dec 2011		PAP 7
🟡	T6c	Review and approve UL 1741 results as meeting PAP 7 requirements	Feb 2012		PAP 7

Status	Schedule	Deliverables	Resources
June 2010	🟡	🟡	🟡
July 2010	🟡	🟡	🟡
Aug 2010	🟡	🟡	🟡
Sept 2010	🟡	🟡	🟡
Oct 2010	🟡	🟡	🟡
Nov 2010	🟡	🟡	🟡
Dec 2010	🟡	🟡	🟡
Jan 2011	🟡	🟡	🟡
Feb 2011	🟡	🟡	🟡
Mar 2011	🟡	🟡	🟡
Apr 2011	🟡	🟡	🟡
May 2011	🟡	🟡	🟡

Status of PAP08: CIM/61850 for Distribution Grid Management

Updated April 9, 2010

A	Current Activities and Accomplishments
A7	MultiSpeak (R) Version 4.1 delivered
A8	CIMTool specification delivered
A9	Next steps identified for task T9
A10	First pass of the messages identified in the Use Case is completed. The sequence diagram is being rewritten to simplify the model.
A11	Resources have been engaged to develop deliverable D2 - The project tasks have been re-baselined.
A12	Resources have been engaged to develop deliverables D6 and D7 - The project tasks have been re-baselined.
A13	Data elements (i.e. requirements) for IEC 61968, IEC 61850 and ANSI C12.19 have been identified.
A14	Requirements have been handed off to appropriate SSO.

I	Issues, Concerns & Help Needed
I3	IEC TC57 WG14 needs additional experts and additional time from existing experts to update the CIM (IEC 61968 Parts 3 & 5, as well as other parts) to meet the requirements described in the PAP 8 Use Cases (See Help Wanted Page)

S	D#	Deliverable
✓	D1	UML Model of MultiSpeak
●	D2	UML Tools for CIM (deliverable is internal to IEC TC57 WG14)
✓	D3	Interoperability Test of CIM Wires Model (completed Nov 2009 - refer to IEC)
✓	D4	Distribution Grid ManagementSG UC nm3.doc: Updated version of the DGM Use cases ADA DOMA/FLIR/ VVWO Use Cases with requirements for Distribution Grid Management
✓	D5	ADA Functions - Sequence Diagrams.pdf: ADA_Functions_-_Sequence_Diagrams.pdf Use Cases with appropriate details for IEC TC57 WGs (61850 and CIM)
●	D6	IEC 61968, Parts 3 & 5, CIM updated standards to meet the PAP 8 Use Case application-to-application requirements
●	D7	IEC 61850-7-4xx standards to meet the PAP 8 Use Case interactions with field equipment

S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
✓	TPMO1	PAP Initiation	2009-09	2009-09	SGIP	
✓	TPMO2	SSO Identified	2009-11	2009-11	SGIP	
✓	TPMO3	Requirements Handoff to SSO	2010-11	2010-12	SGIP	
●	TPMO4	Standards Handback to PAPWG from SSO	2011-07		IEC	
●	TPMO5	GB/SGIP Vote	2011-10		Administrator	
●	TPMO6	SGIP Plenary Vote	2011-10		Administrator	
●	TPMO7	Post to Catalog or IKB	2011-10		PAP08WG	
●	TPMO8	Close PAP	2011-11		PAP08WG	

S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T1	UML model for MultiSpeak	Jun-2010	Jun-2010	NRECA	D1
✓	T2	Team for UML tools for	Jun-	Jun-	IEC TC57	D2

		CIM	2010	2010	WG14	
✓	T3	Team for interoperability testing	Nov-2009	Nov-2009	IEC TC57 WG14	D3
✓	T4	Web conference CIM Modeling team	Nov-2009	Nov-2009	IEC TC57 WG14	D4
✓	T5	Create SG use case team	Nov-2009	Nov-2009	Mini-T&D team	D5
✓	T6	Use Case master list	Jan-2010	Jan-2010	Mini-T&D team	D5
✓	T7	Key Use Cases prioritized and refined	Feb-2010	Feb-2010	UCI	D5
✓	T8	Review Use Cases and complete Sequence Diagrams of those Use Cases	Apr-2010	Apr-2010	NIST, PAP 8	D6
✓	T9	Provide completed Use Cases to the IEC TC57 WGs 14 & 17	Nov-2010	Dec-2010	NIST, PAP 8	D6, D7
✓	T10	Track progress on developing CIM and 61850 models from the Use Cases	Dec-2011?	Dec-2010	IEC TC57 WG14 & 17	
●	T11	Modify UML tool for use with Multispeak	May-2011		EPRI	D2

Status	Schedule	Deliverables	Resources
April 2010	●	●	●
May 2010	●	●	●
June 2010	●	●	●
July 2010	●	●	●
August-2010	●	●	●
September 2010	●	●	●
October 2010	●	●	●
November 2010	●	●	●
December 2010	●	●	●
January 2011	●	●	●
February 2011	●	●	●
March 2011	●	●	●
April 2011			

Status of PAP09: Standard DR and DER Signals

Updated June 16, 2011.

Overall PAP Status:

Date	Updated By	Latest PAP Status
2011-06	William Cox	Awaiting output from SSO. 1Q2011 deliverables (TP05-TPM08) are delayed pending SSO output. OASIS Energy Interoperation is currently planning Public Review late June/early July. Expected completion is July/August 2011.

A#	Current Activities and Accomplishments	S	D#	Deliverable
A16	Detailed and close collaboration between the UCAIug OpenADR TF, ISO/RTO Council, and OASIS Energy Interoperation is continuing to address stakeholder issues on a timely basis	✓	D1	Standard Vocabulary for DR and DER
		●	D2	Direct Load Management Communication
		●	D3	Collaborative Load Management Communication
		✓	D4	Grid safety Signals
A25	Teams established in Energy Interoperation TC to complete tasks for Public Review 2. Work has been in progress since January 2011 when comment resolution started from the first public review		D5	DER support (deferred)
		✓	D6	Other signals and/or an extensibility mechanism
A27	Using work from Houston Tiger Team to improve specification and examples			
A28	Awaiting public review draft of EMIX to move forward to Public Review 2. Planned for May 2011			

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
I2	Comments on PAP-15 call for a standard DR interface for appliances; simple levels in signals address the non-communication needs	✓	TPMO1	PAP Initiation	2009-07	2009-07	SGIP	
I3	Completion is dependent upon completion of EMIX (PAP03) [second Public Review ends May 2011]	✓	TPMO2	SSO Identified	2009-07	2009-07		
		✓	TPMO3	Requirements Handoff to SSO	2009-12	2010-04		
I4	Completion is dependent upon completion of WS-Calendar (PAP04) [second Public Review ended May 2011]	✓	TPMO4-1	First Standards Handback to PAPWG from SSO	4Q2010	2010-12	OASIS (1st Public Review)	
		●	TPMO4	Standards Handback to PAPWG from SSO	3Q2011		OASIS Final	
		●	TPMO5	GB/SGIP Vote	2011-1Q		Administrator	
		●	TPMO6	SGIP Plenary Vote	2011-1Q		Administrator	
		●	TPMO7	Post to Catalog or IKB	2011-1Q		PAP09WG	
		●	TPMO8	Close PAP	2011-		PAP09WG	

NOTE: The PAP09 WG is awaiting output from the SSO

S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T1	Collect, Analyze, and Consolidate Use Cases and deliver requirements (inc DER)	2009-10	2010-04	NAESB	D1
✓	T2	Direct Load Management: (Residential Applications) Message Semantics Work DR, DER	2010-04	2010-04	Zigbee	D2
✓	T3	Collaborative Load Management: (C+I Applications) Message Semantics, DR, DER	2010-04	2010-04	OASIS	D3,D6
*	T4	Coordinate and merge Direct and Collaborative Load Management development tracks.	2010-04	deferred	NAESB	D1
🟢	T5	Submit collaborative load management task outputs to IEC TC57 when completed	no date		OASIS	D3
🟢	T6	Submit direct load management outputs to IEC TC57 when completed	no date		Zigbee	D2
✓	T7	Downstream user requirements/engagement	2009-10	2009-09	LonMark BACnet	D3
✓	T8	Downstream user requirements/engagement	2009-10	2009-10	Zigbee	D2
✓	T9	Additional message requirements for Distribution (none required)	2009-10	2009-10	MultiSpeak	D1
✓	T10	Resale and process for safety and interconnection (no action in PAP09; PAP07 has these issues)	2009-10	No Action	NAESB	D5,D4
✓	T11	Vocabulary for DR, DER actor names	2009-09		NAESB	D1
✓	T12	Development of Requirements by PAPWG [See NOTE]	2010-07		PAP09WG	D1
✓	T13	Standards Handback to PAPWG from SSO	2010-4Q		OASIS	D6
✓	T14	Deliver requirements from PAP07 to OASIS Energy Interoperation TC	2010-10		PAP07	

NOTES: Original [D1](#) completed 2009-12 and delivered 2010-04; T12 addresses high level requirements from the NIST Framework and Roadmap. T4 Was deferred by the WG; T10 was examined and no work was determined to be needed at this time. T5 and T6 will be completed when the other work is completed.

Status	Schedule	Deliverables	Resources
January 2010			
February 2010			
March 2010			
April 2010			
May 2010			
June 2010			
July 2010			
August 2010			
September 2010			
October 2010			
November 2010			
December 2010			
January 2011			
February 2011			
March 2011			
April 2011			
May 2011			
June 2011			

Status of PAP10: Standard Energy Usage Information

Updated May 3, 2011.

Date	Updated By	Latest PAP Status
2011-05-3	Marty Burns	PAP10 is now in a monitoring and support mode to help facilitate the uptake of the standard by OASIS, IEC61970/61968, IEC61850, ANSI C12.19/22, PAP 17/ASHRAE SPC201, and ZigBee Smart Energy Profile (SEP) 2.0.

A#	Current Activities and Accomplishments	S	D#	Deliverable
A1	NAESB PAP10 Standard successfully ratified	✓	D1	Use cases and requirements for standard energy usage information exchange
A2	PAP10 accepts NAESB Standard as meeting requirements	✓	D2	Short term plans for near-term customer access to usage data based upon todays installed meters
A3	PAP10 completes TPMO Tasks , Deliverable 3	✓	D3	NAESB PAP10 Energy Usage Information Standard: An Information model to satisfy present and future needs for exchange of energy usage information
A4	PAP10 completes Task 9, Deliverable 4	✓	D4	Implement a plan to expedite harmonized standards development and adoption: OASIS, IEC61970/61968, IEC61850, ANSI C12.19/22, PAP 17/ASHRAE SPC201, and ZigBee Smart Energy Profile (SEP) 2.0.
A5	PAP10 completes PAP Completion submission to GB			
A6	SGIP Governing Board Votes to Approve PAP10 NAESB REQ18, WEQ19 on January 14, 2011			

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
1	PAP10 is now in a monitoring and support mode to help facilitate the uptake of the standard by OASIS, IEC61970/61968, IEC61850, ANSI C12.19/22, PAP 17/ASHRAE SPC201, and ZigBee Smart Energy Profile (SEP) 2.0.	✓	TPMO1	PAP Initiation	2009-07	2009-07	SGIP	
		✓	TPMO2	SSO Identified	2010-06	2010-06	PAP10WG	
		✓	TPMO3	Requirements Handoff to SSO	2010-06	2010-06	PAP10WG	
		✓	TPMO4	Standards Handback to PAPWG from SSO	2010-12	2010-12	SSO	
		✓	TPMO5	GB/SGIP Vote	2010-01	2010-01	Administrator	
		🟡	TPMO6	SGIP Plenary Vote			Administrator	
		🟡	TPMO7	Post to Catalog or IKB			PAP10WG	
		🟡	TPMO8	Close PAP			PAP10WG	
S	T#	PAP Work Tasks	Due	Actual	Resp	D#		
✓	T1	Reach out to ANSI C12, IEC, ZigBee, and OASIS for formal involvement. Plan additional engagement	2009-08	2010-01	UCAIug	D1		
✓	T2	Create preliminary	2009-	2009-	UCAIug	D2		

	Requirements and Use Cases for early deployment	10	11		
✓	T3 Reach out to additional stakeholders especially commercial, industrial, and residential	2010-01	2010-01	EIS Alliance	D1
✓	T4 Gather requirements and use cases for intra-premise scenarios that require inter-domain data exchange	2010-01	2010-01	EIS Alliance	D1
✓	T5 Survey current practice. Gather existing usage communications between energy suppliers and consumers, including providers of intermediary services	2010-07	2010-07	NAESB	D1
✓	T6 Consolidate use cases and requirements into a Basic Energy Usage Information straw model to contribute to NAESB standards process	2010-06	2010-06	PAP10 individuals	D1
✓	T7 Produce first delivery information model for today's meters and infrastructure (from utility information systems)	2010-02	2010-04	UCAIug	D2
✓	T8 Expedite harmonized standards development and adoption within the associated standards bodies	2011-01	2010-12	NAESB	D4
✓	T9 Produce Energy Usage information model specification	2010-12	2010-12	PAP10WG	D3

Status	Schedule	Deliverables	Resources
January 2011			
February 2011			
March 2011			
April 2011			

Status of PAP11: Common Object Models for Electric Transportation*

Updated June 8, 2011.

Overall PAP Status:

Date	Updated By	Latest PAP Status
2011-06-08	Vishant Shah	The Governing Board recommended J1772-TM and J2836-1 to be added to the Catalog of Standards. The SGIP Plenary will vote on these recommendations. The SAE Hybrid Committee published a revised J2847-1 May 9, 2011. The CSWG completed it's review and the revised standard is currently under review by the SGAC.

A#	Current Activities and Accomplishments	S	D#	Deliverable
A3	Provided extensive input to Smart Energy Profile 2.0 SRS 0.9 requirements for PEV messages and information exchange sets.	✓	D1	PEV Use Cases
A4	Joint Collaboration with IEC TC57, WG 14, 17, 19, TC69 (PEV) July 2010	✓	D2	Memo SAE and Smart Energy
A5	PEV Information Model developed in CIM as extension defined by SEP 2.0 SRS 0.9, Harmonization between IEC 61968 (CIM) and IEC 61850 as proposed by EPRI study	✓	D3	Map 61968 and 61850
A6	Set up Regulatory Affairs Task Force in July 2010 with 6 initial states participating	✓	D4	Define all SDO related activities
A7	Face-to-Face meeting in July 2010 in conjunction with OpenSG User group meetings. Next meeting scheduled in October 2010.	✓	D5	Use Cases in SGIP format
A9	Face-to-Face meetings with EPRI Infrastructure Working Council. Met jointly in September 1-2, 2010, next meeting December, 2010 in Detroit, MI.	✓	D6	Organize Regulatory Advisors Task Force
A10	SAE J1772-TM PEV Connector Standard Released: Electric Vehicle and Plug in Hybrid Electric Vehicle Conductive Charge Coupler, 2010-01-15	✓	D7	Drafting high level information model, evolve robust object models
A11	SAE J2836-1 PEV Use Cases Standard Released: Use Cases for Communication Between Plug-in Vehicles and the Utility Grid, 2010-04-08	✓	D8	SAE Evaluation of PLCs for PEVs
A12	SAE J2847-1 PEV Communications Requirements Released: Communication between Plug-in Vehicles and the Utility Grid, 2010-06-16	✓	D9	Complete list of PEV Requirements
A13	SGIP Face-to-Face Meeting with PAP 11 in St. Louis, MO	✓	D10	Need to overcome collaborative difficulties with IEC
A14	SEP 2.0 Application Specification Section 11, PEV messages and information sets, in final phase of development	✓	D11	Develop requirements for Level 3 and DC connector and hand off to new PEV PAP
A15	SAE J1772-TM, J2836/1, J2847/1 submitted to SGIP Governing Board for review			
A16	SGIP -GB approved vote for acceptance of SAE J1772-			



TM, J2836/1. Requested that SAE J2847/1 be updated to address [CSWG](#), SGAC inputs

I#	Issues, Concerns & Help Needed
I2	Coordinate with PAP 15 – PLC communication. Provide requirements.
I3	Coordinate with PAP07 – Energy Storage. Provide requirements

S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
✓	TPMO1	PAP Initiation	2009-09	2009-09	PAP11WG	
The "A" TPMO Tasks listed below are for SAE J1772-TM and J2836/1						
✓	A-TPMO2	SSO Identified	2009-10	2009-10	PAP11WG	
✓	A-TPMO3	Requirements Handoff to SSO	2010-08	2010-08	PAP11WG	
✓	A-TPMO4	Standards Handback to PAPWG from SSO	2010-08	2010-08	SSO	
✓	A-TPMO5	GB/SGIP Vote	2010-12	2010-12	Administrator	
🟢	A-TPMO6	SGIP Plenary Vote	2011-04		Administrator	
🟢	A-TPMO7	Post to Catalog or IKB	2011-04		PAP11WG	
The "B" TPMO Tasks listed below are for SAE J2847/1						
✓	B-TPMO2	SSO Identified	2009-10	2009-10	PAP11WG	
✓	B-TPMO3	Requirements Handoff to SSO	2011-01	2011-01	PAP11WG	
✓	B-TPMO4	Standards Handback to PAPWG from SSO	2011-05	2011-05	SSO	
🟢	B-TPMO5	GB/SGIP Vote	2011-07		Administrator	
🟢	B-TPMO6	SGIP Plenary Vote	2011-09		Administrator	
🟢	B-TPMO7	Post to Catalog or IKB	2011-09		PAP11WG	
🟢	TPM10	PAP Complete	2011-09		SGIPGB	
S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T1	Assemble PEV related use cases	2009-12	2009-12	Arindam Maitre EPRI	D1

✓	T1A	Use Cases in SGIP format	2010-01	2009-12	Nathan Tenney PNL	D5
✓	T1B	Complete PEV Data Communication Requirements for delivery to SSOs	2010-08	2010-08	Jerry Melcher, EnerNex	D9
✓	T2	Drafting high level information model, evolve robust object models	2010-02	2010-02	ZigBee SEP (Greg Robinson - Extensibel Solutions / Robby Simpson, GE)	D7
✓	T3	Need to overcome collaborative difficulties among SDOs	2009-08	2009-09	SAE (Jose Salazar, SCE)	D2
✓	T3A	Need to overcome collaborative difficulties with IEC	2010-06	2010-06	Eric Simmon, NIST	D10
✓	T4	Produce 61968 and 61850 documents for IEC meeting	2010-04	2010-04	TC57 WG 14,17,19 (Greg Robinson)	D3
✓	T5	Reviewing regulations with regulators	2010-05	2010-05	NEMA (Ben Biroshak) CPUC (Adam Langton)	D6
✓	T6	Review related standards for barrier to PEV adoption	2010-04	2010-05	SAE (Efrain Ornelas)	D4
✓	T7	SAE Evaluation of PLC for PEVs	2010-07	2010-07	SAE (Rich Scholer, FORD)	D8
✓	T8	Develop requirements for Level 3 and DC connector and hand off to new PEV PAP	2010-08	2010-08	NIST (Eric Simmon)	D11

Status	Schedule	Deliverables	Resources
Sep 2010			
Oct 2010			
Nov 2010			
Dec 2010			
Jan 2011			

Feb 2011			
Mar 2011			
Apr 2011			
May 2011			
Jun 2011			

Status of PAP12: Mapping IEEE 1815 (DNP3) to IEC 61850 Objects

Updated June 14, 2011

Overall PAP Status:

Date	Updated By	Latest PAP Status
2011-06-14	Ron Farquharson	IEEE Std 1815 (DNP) was published July 2010 and is ready for the PMO standards recommendation once reviews by the SGAC and CSWG are completed. Both of these reviews have been delayed but are expected to be complete in June. IEEE P1815.1 is the new standard for mapping between IEEE Std 1815 and IEC 61850. This was effort was delayed was in now back on track for an estimated completion of the first draft in July.

A#	Current Activities and Accomplishments	S	D#	Deliverable
A1	2011-06-14 - PAP-12 WG is coordinating with the CSWG and the SGAC to prepare a standards recommendation for IEEE Std 1815 - 2010 to the SGIP Governing Board. There have been delays in getting reviews completed by the SGAC and CSWG .	✓	D1	Use Case Diagrams and Data Flow Diagrams
		✓	D2	Scope Description and Outline
		✓	D3	Use Case Descriptions and Requirements
		✓	D4	IEEE Std 1815 (DNP3)
		✓	D11	IEEE PAR for IEEE P1815.1 mapping specification
A2	2011-06-14 -IEEE Working Group C14 has been delayed but is now working quickly to complete the work for IEEE Std P1815.1. IEEE C14 leadership consists of Lee Smith, Chair; Ron Farquharson, Vice Chair; Ed Cenzone, Secretary.	✓	D12	Draft IEEE P1815.1 mapping specification
		🟡	D13	IEEE IEEE 1815.1 mapping specification published as an IEEE standard
		🟡	D5	IEC 61850-80-2 (Joint Logo) New Work Item Proposal
A3	2011-06-14 -The Mapping Sub-Group of WG C14 is completing the writing of the missing chapters of the P1815.1 document.	🟡	D6	IEC 61850-80-2 (Joint Logo) Mapping Specification published
A4	2011-06-14 -The NIST contractor will continue to provide editorial support for the P1815.1 until the first full draft of the document is complete.	🟡	D7	DNP3 Application Note - IEC 61850 Integration
		🟡	D8	Changes to IEC 61580 Specifications
		🟡	D9	Changes to DNP3 Specifications
A5	2011-06-14 -Collaboration is continuing between IEEE WG C14 and IEC WG 10. The objective is to submit the published IEEE P1815.1 standard to the IEC for a joint logo standard in the future.	🟡	D10	Example DNP XML and SCL files
A6	2011-06-14 -Although there have been delays, PAP-12 WG is working with the CSWG and the SGAC to conduct preliminary detailed reviews of the draft P1815.1 document prior to publication.			
A7	2011-06-14- The IEEE SA staff have confirmed that they are able to support the new IEEE Std P1815.1 mapping specification on an accelerated basis.			
A8	2011-06-14 - IEEE Working Group C12 plan to add the DNP3 Secure Specification (V5?) to the 2011 update of IEEE Std 1815 in late 2010.			

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
1	Delays in reviews by the CSWG and SGAC							
2	Access to experts for development of P1815.1	✓	TPMO1	PAP Initiation	2009-09	2009-09	SGIP	

✓	TPMO2	SSO Identified	2009-11	2009-11	SGIP	
✓	TPMO3	Requirements Handoff to SSO	2010-05	2010-05	SGIP	
🔄	TPMO4	Standards Handback to PAPWG from SSO	2011-10		SDO	D4, D6, D7
🔄	TPMO5	GB/SGIP Vote	2011-11		Administrator	
🔄	TPMO6	SGIP Plenary Vote	2011-11		Administrator	
🔄	TPMO7	Post to Catalog or IKB	2011-11		PAP12WG	
🔄	TPMO8	Close PAP	2011-12		PAP12WG	

S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T1	Create a proposed outline for a new scoping document.	Jan-2010	Jan-2010	Ron Farquharson	D2
✓	T2	Create data flow diagrams	Mar-2010	Mar-2010	Grant Gilchrist	D1
✓	T3	Create drafts of the use case description based on the topology diagrams	Apr-2010	Apr-2010	Grant Gilchrist	D3
✓	T4	Support IEEE PES Substations WG-C12 with IEEE P1815 - new IEEE standard for DNP	May-2010	May-2010	Ron Farquharson, Lee Smith, Parker McCauley	D6
✓	T5	Define what key data types are required for SCADA	May-2010	May-2010	Rick Murphy	D7
✓	T6	Modify	Apr-2010	Apr-	Rick Murphy	D1

		existing architecture diagrams to add DNP to field devices, electronic security perimeter		2010		
✓	T7	Locate example mappings (existing products) for DNP3 to IEC61850	October-2010	Oct-2010	Parker McCauley	D10
✓	T8	Finalize outline for the IEC 61850-80-2 Technical Report (Mapping DNP with 61850)	September-2010	Sept-2010	Grant Gilchrist / Christoph Brunner	D6
🔄	T9	Finalize outline for the (DNP Technical Committee sponsored) guideline for mapping DNP3 with IEC 61850.	July 2011		Rick Murphy	D7
✓	T10	Develop PAR for new IEEE standard	November-2010	Dec-2010	Lee Smith / Ron Farquharson	D11
✓	T11	Develop draft IEEE mapping specification for review by IEEE C14 working group	January 2011	January 2011	NIST Contractor (ESTA/Quanta) & IEEE C14	D12
🔄	T12	Develop the New Work Item Proposal for	Nov-2011		Christoph Brunner	D5

the IEC
61850-80-2
technical
specification.

Status	Schedule	Deliverables	Resources
January 2010			
February 2010			
March 2010			
April 2010			
May 2010			
June 2010			
July 2010			
August 2010			
September 2010			
October 2010			
November 2010			
December 2010			
January 2011			
February 2011			
March 2011			
April 2011			
May 2011			
June 2011			

Status of PAP13: Harmonization of IEEE C37.118 with IEC 61850 and Precision Time Synchronization

Updated June 14, 2011

Overall PAP Status:

Date	Updated By	Latest PAP Status
2011-06-14	Ron Farquharson	The official IEC 61850-90-5 has been released as Draft Technical Report (DTR). This is now being reviewed by IEC WG 10 and all IEC TC-57 international committees with an objective of a successful Working Group vote at their September 2011 meeting. The draft standard IEEE PC37.238 has been submitted to IEEE RevComm for final approval and publication. Preliminary reviews by the CSWG are complete for both standards. Preliminary reviews by the SGAC have been delayed.

A#	Current Activities and Accomplishments	S	D#	Deliverable
A1	2011-06-14 - A sub-group of IEC WG-10 has completed the official release Draft Technical Report (DTR) of the IEC 61850-90-5 document.	✓	D1	Harmonization use cases and requirements
		✓	D2	C37.118 Enhancement (gaps) List
		🟢	D3	IEC 61850-90-5 Mapping document
A2	2011-06-14 - The 90-5 DTR is now being reviewed by IEC WG 10 and all IEC TC-57 international committees with an objective of a successful Working Group vote at their September 2011 meeting.	✓	D4	1588 Time Sync Demo
		🟢	D5	1588 Power Profile - IEEE PC37.238
		🟢	D6	Amendments to IEC 61850 documents
		🟢	D7	Amendments to IEEE C37.118 document(s)
A3	2011-06-14 - A number of recent changes were made to the 90-5 document and are now incorporated in the document.	🟢	D8	Guideline for Harmonizing C37.118-2005 with IEC 61850
A4	2011-06-14- Preliminary detailed review of the draft technical report is completed by the CSWG and pending by the SGAC. The CSWG has been active with important additions being proposed to the standard (cyber key management)			
A5	2011-06-14- The ASAP-SG team have developed and distributed a draft Cyber Security Profile for WAMPAC (wide area measurement protection and control) systems. This is being reviewed by a large cross section relevant SDOs and experts including PAP-13.			
A6	2011-06-14- Working group IEEE PSRC H7/C7 - IEEE PC37.238 (Power Profile for IEEE 1588) have successfully balloted the document and have addressed all comments.			
A7	2011-06-14 - The draft standard IEEE PC37.238 balloting and clean up is now complete and have been submitted to IEEE RevComm for final approval and publication.			
A8	2011-06-14 - Successful plugfest has been completed in Germany recently achieving a high degree of time accuracy (200nS). In addition relevant suggestions for the standard were developed.			

A9	2011-06-14 - Comments from the IEC have been received regarding IEEE PC37.238 (Power Profile for IEEE 1588). A dual logo standard is expected.
A10	2011-06-14 - Preliminary detailed review of the draft standard (PC37.238) by the CSWG is completed and underway by the SGAC.

I#	Issues, Concerns & Help Needed
1	SGAC preliminary detailed reviews are delayed

S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
✓	TPMO1	PAP Initiation	2009-09	2009-09	SGIP	
✓	TPMO2	SSO Identified	2009-11	2009-11	SGIP	
✓	TPMO3	Requirements Handoff to SSO	2010-09	2010-10	SGIP	
🟡	TPMO4	Standards Handback to PAPWG from SSO	2011-10		SSO	D3, D5 - D8
🟡	TPMO5	GB/SGIP Vote	2011-11		Administrator	
🟡	TPMO6	SGIP Plenary Vote	2011-11		Administrator	
🟡	TPMO7	Post to Catalog or IKB	2011-11		PAP13WG	
🟡	TPMO8	Close PAP	2011-12		PAP13WG	

S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T1	Requirements document for Synchrophasors	Sep-2009	Oct-2009	Mark Adamiak	D1
✓	T2	Create outline for IEC mapping document (IEC 61850-90-5)	June-2010	June-2010	HTF3 - Joint IEEE/IEC	D3
✓	T3	Create the draft IEC mapping document (90-5)	Sep-2010	July-2010	IEC WG10	D3
✓	T4	IEEE PSRC H7 - Power Profile for IEEE 1588 - sponsor ballot	Nov-2010	Nov-2010	IEEE H7/C7	D5
✓	T5	Interop demo 1588	Jan-2010	Jan-2010	IEEE H7/C7	D4
🟡	T6	Validate time synchronization requirements for testing	June-2011		NIST Contractor	D5
✓	T7	Differences in time	Sep-	Oct-	IEEE H7 /	D3

		stamps C37.118 / IEC 61850	2010	2010	TC57/WG10	
	T8	Amendments to IEC 61850 (if applicable)	June-2011		TC57/WG10	D6
	T9	NIST Testbed for 1588 - Requirements	July-2011		NIST Contractor	D5
	T10	Create a list of enhancements and gaps for C37.118-2005	May-2010	May-2010	Mark Adamiak	D2, D7
	T11	Outline for the Guideline for Harmonizing C37.118-2005 with IEC 61850	July-2011		NIST Contractor	D8

Status	Schedule	Deliverables	Resources
January 2010			
February 2010			
March 2010			
April 2010			
May 2010			
June 2010			
July 2010			
August 2010			
September 2010			
October 2010			
November 2010			
December 2010			
January 2011			
February 2011			
March 2011			
April 2011			
May 2011			
June 2011			

Status of PAP14: Transmission and Distribution Power Systems Model Mapping (11.2.1)

Updated May 17, 2011.

A#	Current Activities and Accomplishments	S	D#	Deliverable
A9	Applications and Standards Development Priority received comments from PAP 14 members and the T&D DEWG incorporated in v10	✓	D1	Report on the impact of C37.239 on CIM and IEC 61850
A11	PAP under consideration for moving under T&D DEWG	✓	D2	A master list of use cases (task 6)
A12	Compiling additional stakeholders for reachout and engagement in priority process	●	D3	New and refined use cases (task 7)
		●	D4	Updates of models (task 7)

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
10	PAP is still large in scope and looking to migrate under T&D	✓	TPMO1	PAP Initiation	2009-09	2009-09	SGIP	
11	Work requires specialized expertise from participants within the key SDOs: IEEE PSRC, IEC TC 57, Other	✓	TPMO2	SSO Identified	2010-01	2010-01	IEC TC 57 WGs,13,19,IEEE PSRC	
13	Now must work to coordinate across SDO activities developing use cases for specialized Standards needs: Need to integrate key applications development with standards development needs	●	TPMO3	Requirements Handoff to SSO	2011-05			
		●	TPMO4	Standards Handback to PAPWG from SSO	2011-07			
14	Need expert help in developing identified use cases in sufficient detail to contribute to standards development	●	TPMO5	GB/SGIP Vote			Administrator	
15	Need to apply expert help in harmonization, integration and unification of key standards	●	TPMO6	SGIP Plenary Vote			Administrator	
		●	TPMO7	Post to Catalog or IKB			PAP14WG	
		●	TPMO8	Close PAP			PAP14WG	

S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T1	Investigating impact of IEEE PC37.239	Dec-2009	May 2010	Hughes	D1
✓	T2	In the process of creating team to identify Use Cases	April-2010	May 2010	Hughes	D2
✓	T3	Creating initial use case team – T&D DEWG	Sep-2009	March-2010	Hughes	D2
✓	T4	Creating use case master list	Dec-2009	July-2010	WG 19	D2
●	T5	Refining use cases	May-2011		WG 19	D3
●	T6	Identifying and assigning use cases – IEEE and IEC TC57 and	April-2011		IEEE PSRC, IEC TC57	D3

	other			
	T7 Develop contributions to communication objects and system models	May-2011		IEEE PSRC, D4 IEC TC57
	T8 Prioritizing Use Cases for Most Critical Needs	March-2011		IEEE, T&D DEWG, IEC, NASPI
	T9 Refocusing PAP to Priority Needs	Feb-2011		IEEE, T&D DEWG, IEC, NASPI

Status	Schedule	Deliverables	Resources
January 2010			
February 2010			
March 2010			
April 2010			
May 2010			
June 2010			
July 2010			
Aug 2010			
Sept 2010			
Oct 2010			
Nov 2010			
Dec 2010			
Jan 2011			
Feb 2011			
Mar 2011			
April 2011			

Status of PAP15: Harmonize Power Line Carrier Standards for Appliance Communications in the Home

Updated May 09, 2011.

A#	Current Activities and Accomplishments	S	D#	Deliverable
A8	Harmonization of coexistence between IEEE and ITU-T completed successfully. Now the ISP-based broadband PLC coexistence mechanism has been ratified by ITU-T as Recommendation G.9972 and by IEEE in the 1901 standard. PAP 15 approved final recommendations to the SGIP during the SGIP Chicago meeting on Dec 2, 2010.	✓	D1	Final Task 1 Deliverable and supporting documents
		✓	D2	Final Task 2 Deliverable
		✓	D3	NB coexistence mechanism
		✓	D4	Harmonized BB Coexistence standards, P1901, G.9972, standards available from IEEE, ITU-T
		✓	D5	Announcement of joint IEEE ITU-T work on NB standard.doc
		✓	D6	Output report on Broadband Coexistence
		✓	D7	Requirement specification for Narrowband Power Line Communications standards
		🟢	D8	Interoperable NB PLC Standard
		🟢	D9	Recommendation to NIST on PLC technology for v2 Framework.
A9	Developing appliance centered NB-PLC requirements with input from AHAM and OpenSG / Communications. Consensus report handed to IEEE P1901.2 and ITU-T G.hnem. Processing feedback received from P1901.2.			
A10	Developing PAP-15 ad-hoc recommendations for feedback to Standards Framework v2 document.			

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
		✓	TPMO1	PAP Initiation	2009-10	2009-10	Administrator	All
The "A" TPMO Tasks listed below are for NarrowBand Standards								
		✓	A-TPMO2	SSO Identified	2010-07	2010-08	PAP15WG	
		✓	A-TPMO3	Requirements Handoff to SSO	2010-11	2011-02	PAP15WG	
		🟢	A-TPMO4	Standards Handback to PAPWG from SSO	2011-9	2011-??	SSO	
			A-TPMO5	Consensus on Handback	2011-10		PAP15WG	
			A-TPMO6	SGAC & CSWG Review	2011-11		SGAC, CSWG	
			A-TPMO7	GB/SGIP Vote	2011-12		Administrator	
			A-TPMO8	SGIP Plenary Vote			Administrator	

	A-TPMO9	Post to Catalog or IKB				PAP15WG
The "B" TPMO Tasks listed below are for BroadBand Standard(s)						
✓	B-TPMO2	SSO Identified	2010-02	2010-02		PAP15WG
✓	B-TPMO3	Requirements Handoff to SSO	2010-02	2011-02		PAP15WG
✓	B-TPMO4	Standards Handback to PAPWG from SSO	2010-06	2010-06		SSO:IEEE,ITU-T
✓	B-TPMO5	Consensus on Handback	2010-10	2010-10		PAP15WG
🔴	B-TPMO6	SGAC & CSWG Review	2011-05			SGAC, CSWG
	B-TPMO7	GB/SGIP Vote				Administrator
	B-TPMO8	SGIP Plenary Vote				Administrator
	B-TPMO9	Post to Catalog or IKB				PAP15WG
	TPM10	PAP Complete				PAP15WG
S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T1	Create a list of existing PLC technologies and revise them according to home appliances requirements	March 23rd, 2010	March 23rd, 2010	Subgroup on coexistence	D1-Final deliverable posted
✓	T2	Create a list of existing coexistence mechanisms and revise them according to home appliances requirements	March 23rd, 2010	April 13th, 2010	Subgroup on coexistence	D2-Final deliverable posted
✓	T3	Harmonize coexistence standards if multiple candidates are found	IEEE and ITU finalize the alignment of the BB-PLC coexistence specs	June 2010	BB Task Force of Subgroup on coexistence	D4-Work completed, BB coexistence standards approved by ITU-T and IEEE in June 2010.
✓	T4	Develop Narrow	April 2010	April	NB Task Force	D3-Report

	Band (NB) Coexistence mechism		27, 2010	of Subgroup on coexistence	delivered,
✓	T5 Select an SDO to develop interoperable NB standard	June 2010		Subgroup on coexistence	Voting postponed, July 27, await joint SDO proposal, D5-IEEE, ITU-T joint announcement delivered. (this task may be deleted or completed based on changes in direction).
✓	T6 Develop recommendation for acceptance of BB coexistence standards to SGIP catalog of standards	October 2010	October 2010	PAP15WG	D6 - report on BB coexistence mechanisms
●	T7 Develop Appliance Centered NB-PLC Requirements	November 2010	Feb 23, 2011	PAP-15 - Requirements	D7-requirement specification approved, Feb 7, 2001; delivered to SDOs Feb 23, 2011
●	T8 IEEE and ITU-T to jointly develop a NB PLC standard	November 2011		IEEE and ITU-T	D8-standard specification
●	T9 Develop PAP-15 Recommendations to Framework v2 Doc	May 2011		PAP-15	D9- Recommendation to NIST on PLC technology for v2 Framework

Status	Schedule	Deliverables	Resources
January 2010	●	●	●
February 2010	●	●	●
March 2010	●	●	●
April 2010	●	●	●
May 2010	●	●	●
June 2010	●	●	●
July 2010	●	●	●
August 2010	●	●	●
September 2010	●	●	●

October 2010			
November 2010			
December 2010			
January 2011			
February 2011			
March 2011			
April 2011			
May 2011			

Status of PAP16: Wind Plant Communications

Updated June 9, 2011.

Overall PAP Status:

Date	Updated By	Latest PAP Status
2011-05-31	Bill Moncrief	On May 24, a small group of PAP 16 participants met with representatives of ISO and other regulators and wind plant interests at WindPower2011 in Anaheim, California. We heard from them on the schedules for making Federal reporting mandatory and briefed them on our plans for IEC 61400-25. The meeting was cordial and the changes seemed acceptable. We also attended the annual meeting of TC88 and briefed them on the project as well.

A#	Current Activities and Accomplishments	S	D#	Deliverable
A1	Requirements mapped to E61400-25	✓	D1	Requirements related to wind power plant communications from use cases
A2	Gaps identified, identifying recommendations			
A3	NIST letter to IEC SG3 sent	✓	D2	Requirements mapping and gaps existing between 61400-25 standard and Task 1 use cases
A4	Recommendations to IEC being written			
A5	Met with TC88 and briefed them	🟢	D3	Best practices on the application of 61400-25 in the US
A6	Met with ISOs, NERC, others to brief them.	🟢	D4	Specific recommendations to the IEC TC 88 working group
A7				

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#	
I1	A meeting at WindPower2011 on May 24 at 3:30 PDT was arranged for presenting to the wind producers and regulators.	✓	TPMO1	PAP Initiation	2010-01	2010-01	SGIP		
	That meeting went very well. Good information from the ISOs, NERC, and others.	✓	TPMO2	SSO Identified	2010-02	2010-08-05	PAP16wg	D1	
		🟢	TPMO3	Requirements Handoff to SSO	2011-06	Maintenance Team formed for 61400-25	PAP16wg/SSO	D4	
		🟢	TPMO4	Standards Handback to PAPWG from SSO	2011-11		SSO		
		🟢	TPMO5	GB/SGIP Vote	2011-11		Administrator		
		🟢	TPMO6	SGIP Plenary Vote	2011-11		Administrator		
		🟢	TPMO7	Post to Catalog or IKB	2011-11		PAP16wg		
		🟢	TPMO8	Close PAP	2011-12		PAP16wg		
S	T#	PAP Work Tasks	Due	Actual	Resp	D#			
✓	T1	Develop requirements related to wind	June-2010	June-2010	UWIG et al	D1			

		power plant communications from use cases				
✓	T2A	Map the requirements of task 1 into 61400-25.	July-2010	August 2010	PAP 16/61400-25 User Group	D2
✓	T2B	Identify Gaps and develop recommendatios.	September 2010	September 2010	PAP 16	D2
●	T3	Develop a best practices list for the application of 61400-25. Identify opportunities to harmonize the CIM and 61400-25	June-2011		UWIG/All	D3
●	T4	Provide specific recommendations to IEC TC 88 through USTAG for 61400-25 and follow-up	June-2011		All/UWIG/61400-25 User Group	D4
✓	T5	Coordinate with PAP 7 in extending ES-DER standards to transmission level	September-2010	September 2010	PAP 16 / PAP 7	D4

Status	Schedule	Deliverables	Resources
September 2010	●	●	●
October 2010	●	●	●
November 2010	●	●	●
December 2010	●	●	●
January 2011	●	●	●
February 2011	●	●	●
March 2011	●	●	●
April 2011	●	●	●
May 2011	●	●	●
June 2011	●	●	●

Status of PAP17: Facility Smart Grid Information Standard

Updated June 14, 2011.

Overall PAP Status:

Date	Updated By	Latest PAP Status
2011-05-23	Aaron F. Snyder	The PAPWG awaits the work of the SSO to evaluate against the PAP requirements.

A#	Current Activities and Accomplishments
A14	The PAP17WG leadership is closely monitoring the efforts of ASHRAE with respect to model development and standard creation. The ASHRAE first draft standard was released internally to the committee on June 13 to permit the membership to see the rendering from the modeling tool. Details of the model and the draft standard will be discussed during the upcoming Montreal meeting June 27 & 28.

S	D#	Deliverables
✓	D1	Use Cases
●	D2	Information Models
●	D3	Draft Standard
●	D4	Published Standard
✓	D5	Requirements

I#	Issues, Concerns & Help Needed
I8	The ASHRAE SPC201P has not yet completed their model and produced a public review standard.

S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
✓	TPMO1	PAP Initiation	2010-07	2010-07	SGIP	
✓	TPMO2	SSO Identified	2010-07	2010-07	PAP17WG	
✓	TPMO3	Requirements Handoff to SSO	2011-01	2011-01	PAP17WG	D1
●	TPMO4	Standards Handback to PAPWG from SSO*	2011-06		ASHRAE	D3, D4
●	TPMO5	GB/SGIP Vote*	2011-06		Administrator	
●	TPMO6	SGIP Plenary Vote*	2011-06		Administrator	
●	TPMO7	Post to Catalog or IKB*	2011-07		PAP17WG	
●	TPMO8	Close PAP*	2011-07		PAP17WG	

S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T1	Form ASHRAE Standard Project Committee (SPC) to execute the tasks from this PAP	2010-07	2010-07	ASHRAE	D1
●	T2	Assemble data requirements from existing use cases referenced above*	2011-02		ASHRAE	D2
●	T3	Initiate public review of	2011-		ASHRAE	D3

	draft Facility Smart Grid Information Standard*	04			
	T4 Publication of final Facility Smart Grid Information Standard*	2011-06		ASHRAE D4	

Status	Schedule	Deliverables	Resources
August 2010			
September 2010			
October 2010			
November 2010			
December 2010			
January 2011			
February 2011			
March 2011			
April 2011			
May 2011			

Status of PAP18:SEP 1.x to SEP 2 Transition and Coexistence :

Updated 2011-05-31.

Overall PAP Status:

Date	Updated By	Latest PAP Status
2011-05-31	Anna Grau	Please comment on our draft White Paper, Version 090, located at ZSE 1.x to ZSE 2 Transition and Coexistence White Paper

A#	Current Activities and Accomplishments	S	D#	Deliverable
A1	PAP 18 instantiated by Governing Board		D1	ZSE 1.x to ZSE 2 Transition and Coexistence White Paper
A2	Leadership team met 04/28/2011 to plan agendas and timelines		D2	Requirements and Best Practices document
A3	First group meeting was held 05/03/2011		D3	Governing Board progress report and recommendation on migration and coexistence path
A4	Draft documents posted for comment: "Requirements and Best Practices," Use Cases, White Paper draft, Comment Template		D4	Review of published standard, Best Practices, and/or application guidelines from the ZigBee Alliance
A5	Memo to Governing Board delivered 06/03/2011		D5	Use Cases for Transition and Coexistence
A6	White Paper opening for general comments			

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
I1	PAP instantiation delayed due to extended comment period on the PAP proposal, leading to a shift in deadlines		TPMO1	PAP Initiation	2011-04	2011-04	SGIP	D1
I2			TPMO2	SSO Identified	2011-04	2011-04	PAP18WG	D2
			TPMO3	Requirements Handoff to SSO	2011-06		PAP18WG	D3
			TPMO4	Standards Handback to PAPWG from SSO	2011-08		SSO	D4
			TPMO5	GB/SGIP Vote	2011-09		Administrator	D5
			TPMO6	Plenary Vote	2011-09		Administrator	D6
			TPMO7	Post to Catalog or IKB	2011-10		PAP18WG	D7
			TPMO8	Close PAP	2011-10		PAP18WG	D8

S	T#	PAP Work Tasks	Due	Actual	Resp	D#
	T1	Establish PAP working group (WG)	2011-04	2011-05	PMO	D1
	T2	Develop White Paper	2011-04		PAP18WG	D2
	T3	Develop Requirements	2011-05		PAP18WG	D3

	T4 Governing Board progress report and recommendation on transition and coexistence path	2011-05		PAP18WG	D4
	T5 Develop solution recommended in White Paper	2011-08		ZigBee Alliance	D5

Status	Schedule	Deliverables	Resources
April 2011			
May 2011			
June 2011			

BnP DEWG Status

Updated February 7, 2011

A#	Current Activities and Accomplishments	S	D#	Deliverable
A1	Setup and staff subgroups		D1	Roadmap
A2			D2	Advanced Use Cases
A3				

I#	Issues, Concerns & Help Needed	S	T#	PAP Work Tasks	Due	Actual	Resp	D#
I1	Completing new PAP proposals		T1	Road Map	2011-06			D1
I2			T2	Advance use cases	2011-04			D2

Status	Schedule	Deliverables	Resources
Jan 2011			
Feb 2011			

