

**Quad Charts**

**PAP 01 through 17**

**March 14, 2011**

Program Management Office

**Status of PAP01: Role of IP in the Smart Grid**

Updated January 11, 2011.

A# Current Activities and Accomplishments		S D# Deliverables	
A8	D2 handoff to IETF SSO (Nov 2010)	✓	D1 <a href="#">Requirements for different Smart Grid applications</a>
A9	<a href="#">CSWG</a> & SGAC reviews complete (Nov 2010)	✓	D2 <a href="#">Identify Core set of IP protocols</a>
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#
I7	Network management, <a href="#">QoS</a> issues should be addressed by <a href="#">SGIP</a> . <a href="#">IP Suite WG created</a>	✓	TPMO1	PAP Initiation	2009-09	2009-09	<a href="#">SGIP</a>	
I8	<a href="#">CSWG</a> to work with IETF on cyber review of older standards	✓	TPMO2	SSO Identified	2009-11	2009-11	Open SG-net IETF	D1, D2
		✓	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	
		🟢	TPMO6	Plenary Vote	2011-04		Administrator	
		🟢	TPMO7	Post to Catalog or IKB	2011-04		<a href="#">PAP01WG</a>	
		🟢	TPMO8	Close PAP	2011-04		<a href="#">PAP01WG</a>	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 <a href="#">OpenSG</a> on July 22 to develop action plan	Jul 2010	Jul 2010	PAP	

  

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			

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

Updated Feb 4 2011.

Current Activities and Accomplishments		Deliverable	
A6	Version 1.0 Draft Guidelines for Assessing Wireless Standards for Smart Grid Application circulated for vote and voting completed	✓ D1	Application Communication Requirements Matrix Template
		✓ D2	<a href="#">Application Communication Requirements Matrix</a>
A9	Teleconference scheduled for Friday February 25, 2011 at 3pm Eastern to review input to GB develop a new action item list going forward in light of the comments received.	✓ D3	Wireless Capability Matrix Template
		✓ D4	<a href="#">Wireless Capability Matrix</a>
		✓ D5	<a href="#">Guidelines on Wireless Assessment</a>

  

Issues, Concerns & Help Needed		S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
I2	Call for input to develop plans for moving forward with the PAP given the broad scope of wireless technologies.	✓	TPMO1	PAP Initiation	2009-08	2009-08	<a href="#">SGIP</a>	All
I3	PAP encompasses a broad scope that covers many standards and associated technologies from multiple SDO organizations	✓	TPMO2	PAP Charter Developed	2009-11	2009-11	<a href="#">SGIP</a>	All
		✓	TPMO3	Form Initial Team	2009-11	2009-11	<a href="#">SGIP</a>	All
		✓	TPMO4	Develop List of Deliverables and Tasks with Assignments	2010-01	2010-01	<a href="#">SGIP</a>	All
		✓	TPMO5	SSO Identified	2009-12	2009-12	NIST	D5
		✓	TPMO6	Development of Requirements By PAPWG	2010-05	2010-05	Open SG	D1,D2
		✓	TPMO7	Requirements Handoff to SSO	2010-01	2010-08	SSOs	D3,D4
		🟡	TPMO8	Guidelines submitted to NIST/SGIP/GB after PAP 2 review			NIST/SGIP/GB	D5
		NA	TPMO9	SSO Results submitted to GB by PAP after completing analysis	NA	NA	NA	NA
		🟢	TPM10	PAP Complete				

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 wireless characterization matrix	July-2011		SSOs	D4

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	🟡	🟡	🟡

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

Updated February 8, 2011.

A#	Current Activities and Accomplishments	S	D#	Deliverables
A21	The OASIS EMIX TC has coordinated with the OASIS WS-Calendar and OASIS Energy Interoperation TCs to use the output of PAPs 4 and 9. Draft linked from <a href="#">D4</a>	✓	D1	<a href="#">High level scoping document</a>
		✓	D2	<a href="#">Price use cases and requirements</a>
		✓	D3	<a href="#">Information model and summary of product characteristics of interest to energy consumers</a>
A22	The OASIS Energy Market Information Exchange Draft Standard was in public review through December 17, 2010. See Hot Links above for the document and how to comment.	✓	D4	<a href="#">Draft price and product definition specification to others</a>
		✓	D5	<a href="#">Requirements Evaluation and Artifacts</a>
		🔄	D6	<a href="#">Deliverables Evaluation and Artifacts</a>
A23	The OASIS Energy Interoperation Draft Standard was in Public Review through December 27, 2010. See Hot Links on the <a href="#">PAP09</a> page for detailed information; this draft standard uses EMIX extensively and provides good examples.			
A24	The <a href="#">PAP03WG</a> performed a review of the EMIX Draft Standard against the <a href="#">PAP03WG</a> requirements and created a draft disposition on December 8. The <a href="#">PAP03WG</a> will perform a review of the final published standard and create the final disposition as well.			
A25	Public Review Completed. Approximately 150 comments received. TC is working on resolutions early January			
A26	WS-Calendar schemas locked late January permitting update of EMIX using simplified WS-Calendar/iCalendar base			
A27	Teams established in EMIX TC to complete tasks for Public Review 2. Work has been in progress through January pending schema availability			
A28	Worked through UCA and IRC issues for EMIX to ensure mutual understanding			
A29	Using work in Houston Tiger Team to improve specification and examples			

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	2011-		OASIS, ZigBee	

		Handback to PAPWG from SSO*	03			
🟡	TPM05	GB/SGIP Vote	2011-04		Administrator	
🟡	TPM06	Plenary Vote	2011-04		Administrator	
🟡	TPM07	Post to Catalog or IKB	2011-04		<a href="#">PAP03WG</a>	
🟡	TPM08	Close PAP	2011-04		<a href="#">PAP03WG</a>	N/A

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	<a href="#">ZigBee</a>	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
TBD	T12	Deliverables evaluation; define scope/schedule/deliverables [subsumed by TPM08 and TPM09 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			

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

Updated March 11, 2011.

A#	Current Activities and Accomplishments	S	D#	Deliverable
A14	xCal submitted to IETF to finish Standards Track process July 2010	✓	D1	<a href="#">Update pre-existing IETF standards for extensibility</a>
A17	The WS-Calendar TC is addressing <a href="#">SGIP</a> guidance and working on their next draft.	✓	D2	<a href="#">Standard XML Serialization for Bi-directional Translation</a>
A18	PAP04 Requirements delivered in July 2010 to WS-Calendar	✓	D3	<a href="#">Use cases and requirements to test the standard</a>
A19	WS-Calendar planning Formal Public Review in September/October 2010	✓	D4	<a href="#">Associated semantics for schedule performance related to WS-Calendar standard</a>
A20	Consumption of PAP04 work in NAESB Energy Usage Public Review Draft, August 2010	✓	D5	<a href="#">Create essential WS APIs for Calendars and Schedules</a>
A21	WS-Calendar out for formal 60 day public review September 24, 2010 through November 23, 2010	🔄	D6	<a href="#">Develop improved WS Calendar: Align APIs and semantics across SDOs</a>
A23	Comments on the WS-Calendar public review have been made to assure coordination between PAPs 03, 04, and 09 as the others move toward public review			
A24	PAP03 includes detailed applications of WS-Calendar. The most recent draft of <a href="#">EMIX</a> and its <a href="#">XML Schemas</a> using WS-Calendar were available November 1			
A25	PAP07 schedule and other requirements for DER are being addressed through WS-Calendar and the recent versions of EMIX			
A26	The coordination of WS-Calendar, EMIX, and Energy Interoperation is proceeding, with formal comments from the EMIX team to the <a href="#">OASIS WS-Calendar TC</a> to be delivered.			
A27	[[ <a href="http://www.oasis-open.org">http://www.oasis-open.org</a> OASIS Energy Market Information Exchange is in <a href="#">formal Public Review</a> ending 17 December 2010. EMIX is a full use of the capabilities of WS-Calendar, thus is an extended example for the use of PAP04.			
A28	OASIS Energy Interoperation has been <a href="#">released for Public Review</a> prior to Grid-Interop. This Draft Standard uses WS-Calendar and EMIX extensively, and is an extended example for the use of WS-Calendar.			
A29	Standards handback to the PAP04WG took place October 2010			
A30	The PAP04WG determined that the Public Review Draft of WS-Calendar met the NAESB and PAP04WG requirements November 2010			
A31	Public Review Completed. Approximately 50 comments received.			

A32	TC is working January 2011 on completing next Committee Specification.
A33	<a href="#">CalConnect</a> is working on delivering XML Schema (rather than <a href="#">RelaxNG</a> ) in January to simplify use in Web Services and make iCalendar and WS-Calendar easier to use, including interaction with <a href="#">BedeWorks</a> and Exchange servers
A34	Schema updates completed January 2011
A35	New schemas greatly simplify use and explanation of WS-Calendar. Specification update in place, UML update pending
A36	Committee Specification Draft published January 2011 to lock schemas while EMIX and Energy Interoperation update
A37	<a href="#">CalConnect</a> completing its portions of specification for next Public Review (decoupled from information model)
A38	Next Public Review (15 day) for WS-Calendar is planned for week of March 14

I#	Issues, Concerns & Help Needed
I2	Other PAPs need to clarify their consumption of PAP04 output and coordinate as necessary.
I5	<a href="#">ZigBee</a> has not clearly addressed PAP04 in its work to date (See PAP03 tables)
I6	Need to integrate PAP07 requirements in Public Review Draft (addressed here and in PAP03)

S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
✓	TPMO1	PAP Initiation	2009-07	2009-07	<a href="#">SGIP</a>	
✓	TPMO2	SSO Identified	2009-07	2009-07	<a href="#">SGIP</a>	
✓	TPMO3	Requirements Handoff to SSO	2009-12	2009-12	NAESB	<a href="#">D3</a>
✓	TPMO4	Standards Handback to PAPWG from SSO	2010-4Q	2010-09	OASIS	
🕒	TPMO5	GB/SGIP Vote	2011-1Q		Administrator	
🕒	TPMO6	Plenary Vote	2011-1Q		Administrator	
🕒	TPMO7	Post to Catalog or IKB	2011-1Q		<a href="#">PAP04WG</a>	
🕒	TPMO8	PAP Complete	2011-04		<a href="#">PAP04WG</a>	

S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T1	Update IETF iCalendar format to allow extensibility	2010-01	2009-09	<a href="#">CalConnect</a>	D1
✓	T2	Standard XML serialization of extensible iCalendar out for public review	2010-01	2009-11	<a href="#">CalConnect</a>	D2
✓	T3	Standard APIs for	2010-	2010-	<a href="#">CalConnect</a>	D4

		Calendar-to-Calendar communications for inclusion in WS-Calendar	08	09		
✓	T4	Submit output of T2 to IETF for approval as Standards Track RFC	2010-05	2010-05	<a href="#">CalConnect</a>	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	<a href="#">D3</a>
✓	T10	Standards Handback to PAPWG from SSO	2010-4Q	2010-11	OASIS	<a href="#">D6</a>

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			



**Status of PAP05**

Updated February 25, 2011.

A#	Current Activities and Accomplishments	S	D#	Deliverables
A18	PMO received comments on SSO document and sent to PAPWG in January	✓	D1	<a href="#">Utility requirements mapping</a>
A19	PAPWG sent comments to AEIC for consideration; response received in February and tracked	✓	D2	<a href="#">Expression of AEIC v2.0 Guidelines in terms of additional device class(es)</a>
A20	PAPWG in interation of final stages of process. If SSO document changes, the closeout process will be revisited.	✓	D3	<a href="#">Revision of AEIC v1.0 Guidelines</a>
A21	SSO declined to revisit guidelines document (make any changes).	✓	D4	<a href="#">Data type profiles for specific Use Case(s)</a>
A22	PAPWG leadership prepared recommendation and opened two-week comment period.	✓	D5	<a href="#">White Paper/Presentation on ANSI metering protocol standards</a>
		✓	D6	<a href="#">New capabilities as developed during PAP05 work</a>
		✓	D7	<a href="#">Publicly available training materials</a>
		✓	D8	<a href="#">Design Document</a>
		✓	D9	<a href="#">Analysis</a>
		✓	D10	<a href="#">Use Cases and Requirements</a>
		✓	D11	<a href="#">Gap Report</a>

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	<a href="#">PAP05WG</a>	TWiki
✓	TPMO2	SSO Identified	2009-08	2009-08	<a href="#">PAP05WG</a>	TWiki
✓	TPMO3	Requirements Handoff to SSO	2009-08	2009-08	<a href="#">PAP05WG</a>	TWiki
✓	TPMO4	Standards Handback to PAPWG from SSO	2010-08	2010-08	AEIC	1,2,6,8
⊘	TPMO5	GB/SGIP Vote	2010-10		Administrator	
⊘	TPMO6	Plenary Vote	2010-10		Administrator	
⊘	TPMO7	Post to Catalog or IKB	2010-10		<a href="#">PAP05WB</a>	
⊘	TPMO8	Close PAP	2010-10		<a href="#">PAP05WG</a>	N/A

S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T1	Map utility requirements expressed via AEIC Guidelines v2.0 to Device Classe	05/2010	08/18/2010	AEIC AMTI	D1

✓	T2	Express AEIC Guidelines v2.0 in terms of one or more additional Device Classes	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 recommendations 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 behaviors within ANSI C12.18-2006, ANSI	06/2010	08/18/2010	AEIC AMTI	D8

		C12.19-2008, ANSI C12.21-2006 and ANSI C12.22-200				
✓	T9	<a href="#">PAP05WG</a> to analyze D3; initial analysis on 9/13/2010	10/2010	11/29/2010	<a href="#">PAP05WG</a>	D9
✓	T10	Report on Framework-based Use Cases and Requirements.	10/2010	11/29/2010	<a href="#">PAP05WG</a>	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			

**Status of PAP06**

Updated March 4, 2011.

A#		Current Activities and Accomplishments	S	D#	Deliverables		
A13		PAPWG reviewed one Use Case analysis and draft UML Meta Model.	✓	D1	<a href="#">Key Use Cases</a>		
			✓	D2	<a href="#">Requirements</a>		
A14		PAPWG reviewed second Use Case analysis	🟡	D3	<a href="#">UML meta model of ANSI C12.19-2008</a>		
A15		PAPWG closed the Use Case task	🟡	D4	<a href="#">UML/TDL Binding</a>		
			🟢	D5	<a href="#">UML model refinement based on SGAC input</a>		
			🟢	D6	<a href="#">Gap/Overlap Report C12.19/61968-9</a>		

  

I#	Issues, Concerns & Help Needed	
I4	Need to get committed 'SSO' for D3, D4	

  

S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
✓	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	2011-03		SSO	
🟡	TPMO	GB/SGIP Vote	2011-03		Administrator	
🟡	TPMO	Plenary Vote	2011-03		Administrator	
🟡	TPMO	Post to Catalog or IKB	2011-03		<a href="#">PAP06WG</a>	
🟡	TPM10	Close PAP	2011-04		<a href="#">PAP06WG</a>	

  

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	2011-01	PAP06WG	D3
🟡	T4	Using a TDL machine	2011-		TBD	D4

	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 hierarchy assembled in T3.	03			
	T5 Refine the UML model to correspond to the abstract semantic model being developed by the <a href="#">SGIP SGAC</a> (dependency!)	2011-04		TBD	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	2011-04		TBD	D6

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			

## Status of PAP07: Energy Storage Interconnection Guidelines

Updated December 13, 2010

A	Current Activities and Accomplishments	S	D#	Deliverable
A1	<b>(May 2010)</b> The balloting for IEEE 1547.6 is completed. The balloting for IEEE 1547.4 is underway.	✓	D1	<a href="#">Task 0 Activities: Development of Scoping Study Document (MS Word version)</a>
A2	<b>(June 2010)</b> 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).	✓	D2	<a href="#">Task 1a Use Cases: List of ES-DER Use Cases (organized by type) (MS Word version)</a>
		✓	D3	<a href="#">Task 4 Use Cases Descriptions for Key ES-DER Use Cases (MS Word version)</a> - 1st draft complete
		✓	D4	Completing IEEE 1547.4 & .6 per IEEE rules <a href="#">See IEEE 1547 Web Page</a>
A3	<b>(August 2010)</b> The first meeting of the IEEE 1547.8 was held in August, with multiple sub-groups formed to work on specific issues.	✓	D5	Initiated PAR for IEEE 1547.8 per IEEE rules <a href="#">See IEEE 1547 Web Page</a>
A4	<b>(August 2010)</b> 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.	✓	D6	<a href="#">Information Exchange requirements for key ES-DER Use Cases submitted to IEC TC57 17</a>
A5	<b>(September 2010)</b> Face-2-face meeting at the <a href="#">SGiP St. Louis</a> 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	<b>(October 2010)</b> 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	<b>(October 2010)</b> 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	<b>(October 2010)</b> 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	<b>(December 2010)</b> Update on IEEE 1547.8: the first draft is almost available for review.

I	Issues, Concerns & Help Needed
I1	<b>(May 2010)</b> 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. <b>This has been accomplished -October 2010.</b>
I2	<b>(October 2010)</b> 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 <a href="#">SGIP</a> 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	<a href="#">SGIP</a>	
✓	TPMO2	SSO Identified	2009-08	2009-08	PAP 7	
✓	TPMO3	Requirements Handoff to SSO	2010-06	2010-06	PAP 7	D3 & D5
🟡	TPMO4	Standards Handback to PAPWG from SSO	2011-06		IEEE and IEC	
🟡	TPMO5	GB/SGIP Vote	2011-10		Administrator	
🟡	TPMO6	Plenary Vote	2011-10		Administrator	
🟡	TPMO7	Post to Catalog or IKB	2011-10		<a href="#">PAP07WG</a>	
🟡	TPMO8	Close PAP	2011-11		<a href="#">PAP07WG</a>	

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	Aug-	1547.4 is	IEEE	D4

		1547.4 (Draft Guide for Design, Operation, and Integration of Distributed Resource Island Systems with Electric Power System) & .6 (Draft Recommended Practice For Interconnecting Distributed Resources With Electric Power Systems Distribution Secondary Networks)	2010	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 to be released by December 2010	1547	
✓	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	June 2011		PAP 7	
🟡	T6b	Review and approve IEC 61850 results as meeting PAP 7	Dec 2011		PAP 7	

	requirements			
T6c	Review and approve UL 1741 results as meeting PAP 7 requirements	June 2011		PAP 7

Status	Schedule	Deliverables	Resources
June 2010			
July 2010			
Aug 2010			
Sept 2010			
Oct 2010			
Nov 2010			
Dec 2010			
Jan 2011			
Feb 2011			

**Status of PAP08: CIM/61850 for Distribution Grid Management**

Updated March 2, 2010

A	Current Activities and Accomplishments
A7	<a href="#">MultiSpeak</a> (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 <a href="#">Help Wanted Page</a> )

S	D#	Deliverable
✓	D1	<a href="#">UML Model of MultiSpeak</a>
●	D2	<a href="#">UML Tools for CIM (deliverable is internal to IEC TC57 WG14)</a>
✓	D3	<a href="#">Interoperability Test of CIM Wires Model (completed Nov 2009 - refer to IEC)</a>
✓	D4	<a href="#">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</a>
✓	D5	<a href="#">ADA Functions - Sequence Diagrams.pdf: ADA_Functions_-_Sequence_Diagrams.pdf Use Cases with appropriate details for IEC TC57 WGs (61850 and CIM)</a>
●	D6	<a href="#">IEC 61968, Parts 3 &amp; 5, CIM updated standards to meet the PAP 8 Use Case application-to-application requirements</a>
●	D7	<a href="#">IEC 61850-7-4xx standards to meet the PAP 8 Use Case interactions with field equipment</a>

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

S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T1	UML model for <a href="#">MultiSpeak</a>	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	Jan-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	●	●	●

## Status of PAP09: Standard DR and DER Signals

Updated February 4, 2011.

A#	Current Activities and Accomplishments	S	D#	Deliverable
A11	The Working Group held a face-to-face review of OASIS Energy Interoperation jointly with UCAlug on July 20; <a href="#">guidance has been delivered</a> to the OASIS TC		D1	<a href="#">Standard Vocabulary for DR and DER</a>
			D2	<a href="#">Direct Load Management Communication</a>
			D3	<a href="#">Collaborative Load Management Communication</a>
			D4	<a href="#">Grid safety Signals</a>
A12	Members of the ISO/RTO Council have joined the OASIS Technical Committee and have contributed additional requirements July 2010		D5	<a href="#">DER support</a> (deferred)
			D6	<a href="#">Other signals and/or an extensibility mechanism</a>
A13	Leadership meetings are taking place among the UCAlug <a href="#">OpenADR</a> Task Force and OASIS Energy Interoperation TC			
A14	Southern California Edison has joined the OASIS Energy Interoperation TC			
A15	The OASIS Energy Interoperation TC has planned Formal Public Review autumn 2010			
A16	Detailed and close collaboration between the UCAlug <a href="#">OpenADR</a> TF, ISO/RTO Council, and OASIS Energy Interoperation is continuing to address stakeholder issues on a timely basis			
A17	PAP09 reviewed the current <a href="#">OASIS Energy Interoperation draft standard</a> at UCAlug's <a href="#">OpenADR</a> Task Force on November 2			
A18	NAESB's <a href="#">Phase 2 Requirements</a> were reviewed by the PAP09 working group at UCAlug's <a href="#">OpenADR</a> Task Force on November 3			
A19	Comments on the WS-Calendar public review have been made to assure coordination between PAPs 03, 04, and 09 as 03 and 09 move toward public review			
A20	Collaboration and joint evolution of EMIX and Energy Interoperation have driven the respective goals of PAP 03 (EMIX) and PAP 09 (EI) as they both move toward public review			
A21	PAP07 schedule and other requirements for DER are being addressed through WS-Calendar and the recent versions of EMIX, and will be used by PAP09			
A22	Energy Interoperation is using the most recent draft of <a href="#">EMIX</a> and its <a href="#">XML Schemas</a> as			

	available November 1
A23	Public Review Completed. Approximately 100 comments received. TC working on resolutions in conjunction with WS-Calendar and EMIX.
A24	WS-Calendar schemas locked late January permitting update of EMIX using simplified WS-Calendar/iCalendar base
A25	Teams established in Energy Interoperation TC to complete tasks for Public Review 2. Work has been in progress through January pending schema availability
A26	Worked through UCA and IRC issues for Energy Interoperation to ensure mutual understanding
A27	Using work in Houston Tiger Team to improve specification and examples

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
I2	<a href="#">Comments on PAP-15</a> call for a standard DR interface for appliances; this appears to be more communication related	✓	TPMO1	PAP Initiation	2009-07	2009-07	<a href="#">SGIP</a>	
		✓	TPMO2	SSO Identified	2009-07	2009-07		
I3	Completion is dependent upon completion of EMIX (PAP03) [public review scheduled November 2010]	✓	TPMO3	Requirements Handoff to SSO	2009-12	2010-04		
I4	Completion is dependent upon completion of WS-Calendar (PAP04) [public review ends November 2010]	✓	TPMO4	Standards Handback to PAPWG from SSO	2010-12			
		⚠	TPMO5	GB/SGIP Vote	2011-1Q		Administrator	
I5	Need to integrate PAP07 Requirements. See T14 and A22	⚠	TPMO6	Plenary Vote	2011-1Q		Administrator	
		⚠	TPMO7	Post to Catalog or IKB	2011-1Q		<a href="#">PAP09WG</a>	
		⚠	TPMO8	Close PAP	2011-04		<a href="#">PAP09WG</a>	
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	<a href="#">LonMark</a> 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	<a href="#">MultiSpeak</a>	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	<a href="#">D1</a>
	T13	Standards Handback to PAPWG from SSO	2010-4Q		OASIS	<a href="#">D6</a>
	T14	Deliver requirements from PAP07 to OASIS Energy Interoperation TC	October 2010		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			

**Status of PAP10: Standard Energy Usage Information:**

Updated January 11, 2011.

A# Current Activities and Accomplishments		S D# Deliverable	
A1	NAESB PAP10 Standard successfully ratified	✓	D1 <a href="#">Use cases and requirements for standard energy usage information exchange</a>
A2	PAP10 accepts NAESB Standard as meeting requirements	✓	D2 <a href="#">Short term plans for near-term customer access to usage data based upon today's installed meters</a>
A3	PAP10 completes TPMO Tasks , Deliverable 3	✓	D3 <a href="#">NAESB PAP10 Energy Usage Information Standard: An Information model to satisfy present and future needs for exchange of energy usage information</a>
A4	PAP10 completes Task 9, Deliverable 4	✓	D4 <a href="#">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.</a>
A5	PAP10 completes PAP Completion submission to GB		

  

I# Issues, Concerns & Help Needed		S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
I1	Many CIM issues resolved but several still outstanding and not resolvable in first release of PAP10 standard. Resulting differences will result in non-integratable extensions to the IEC 61968 part 9	✓	TPMO1	PAP Initiation	2009-07	2009-07	<a href="#">SGIP</a>	
I2	Need to provide PAP10 Deliverable 4 to <a href="#">SGIP</a> Plenary and GB for discussion	✓	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	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 Requirements and Use Cases for early deployment	2009-10	2009-11	UCAIug	D2
✓	T3	Reach out to additional stakeholders especially commercial, industrial,	2010-01	2010-01	EIS Alliance	D1

		and residential				
✓	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	<a href="#">PAP10WG</a>	D3

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			

**Status of PAP11: Common Object Models for Electric Transportation\***

Updated March 7, 2011

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	<a href="#">PEV Use Cases</a>
A4	Joint Collaboration with IEC TC57, WG 14, 17, 19, TC69 (PEV) July 2010	✓	D2	<a href="#">Memo SAE and Smart Energy</a>
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	<a href="#">Map 61968 and 61850</a>
A6	Set up Regulatory Affairs Task Force in July 2010 with 6 initial states participating	✓	D4	<a href="#">Define all SDO related activities</a>
A7	Face-to-Face meeting in July 2010 in conjunction with <a href="#">OpenSG</a> User group meetings. Next meeting scheduled in October 2010.	✓	D5	<a href="#">Use Cases in SGIP format</a>
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	<a href="#">Organize Regulatory Advisors Task Force</a>
A10	SAE J1772-TM PEV Connector Standard Released: Electric Vehicle and Plug in Hybrid Electric Vehicle Conductive Charge Coupler, 2010-01-15	✓	D7	<a href="#">Drafting high level information model, evolve robust object models</a>
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	<a href="#">SAE Evaluation of PLCs for PEVs</a>
A12	SAE J2847-1 PEV Communications Requirements Released: Communication between Plug-in Vehicles and the Utility Grid, 2010-06-16	✓	D9	<a href="#">Complete list of PEV Requirements</a>
A13	<a href="#">SGIP</a> Face-to-Face Meeting with PAP 11 in St. Louis, MO	✓	D10	<a href="#">Need to overcome collaborative difficulties with IEC</a>
A14	SEP 2.0 Application Specification Section 11, PEV messages and information sets, in final phase of development	✓	D11	<a href="#">Develop requirements for Level 3 and DC connector and hand off to new PEV PAP</a>
A15	SAE J1772-TM, J2836/1, J2847/1 submitted to <a href="#">SGIP</a> Governing Board for review			
A16	<a href="#">SGIP</a> -GB approved vote for acceptance of SAE J1772-TM, J2836/1. Requested that SAE J2847/1 be updated to address <a href="#">CSWG</a> , SGAC inputs			

  

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
I2	Coordinate with PAP 15 – PLC communication. Provide requirements.	✓	TPMO1	PAP Initiation	2009-09	2009-09	PAPWG	
I3	Coordinate with PAP07 – Energy Storage. Provide requirements	✓	TPMO2	PAP Charter Developed	2009-09	2009-09	PAPWG	
		✓	TPMO3	Form Initial Team	2009-09	2009-09	PAPWG	
		✓	TPMO4	Develop List of	2009-	2009-	PAPWG	

S	T#	PAP Work Tasks	Due	Actual	Resp	D#
		Deliverables and Tasks with Assignments	10	10		
✓	TPM05	SSO Identified	2009-10	2009-10	PAPWG	
✓	TPM06	Development of Requirements By PAPWG	2010-08	2010-08	PAPWG	
✓	TPM07	Requirements Handoff to SSO	2010-08	2010-08	PAPWG	
✓	TPM08	Standards Handback to PAPWG from SSO	2010-08	2010-08	SSO	
✓	TPM09	SSO Results submitted to GB by PAP after completing analysis	2010-10	2010-10	PAPWG	
🟡	TPM10	PAP Complete	2011-04		SGIPGB	
✓	T1	Assemble PEV related use cases	2009-12	2009-12	Arindam Maitre EPRI	D1
✓	<a href="#">T1A</a>	Use Cases in <a href="#">SGIP</a> format	2010-01	2009-12	Nathan Tenney PNL	D5
✓	<a href="#">T1B</a>	Complete PEV Data Communication Requirements for delivery to SSOs	2010-08	2010-08	Jerry Melcher, <a href="#">EnerNex</a>	D9
✓	T2	Drafting high level information model, evolve robust object models	2010-02	2010-02	<a href="#">ZigBee</a> 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
✓	<a href="#">T3A</a>	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	D6



					Langton)	
✓	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			

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

Updated March 7, 2011

A#	Current Activities and Accomplishments	S	D#	Deliverable				
A1	NIST contractor and PAP-12 volunteers have continued to add to the draft of the document for IEEE Std P1815.1	✓	D1	<a href="#">Use Case Diagrams and Data Flow Diagrams</a>				
		✓	D2	<a href="#">Scope Description and Outline</a>				
		✓	D3	<a href="#">Use Case Descriptions and Requirements</a>				
		✓	D4	<a href="#">IEEE Std 1815 (DNP3)</a>				
		✓	D11	<a href="#">IEEE PAR for IEEE P1815.1 mapping specification</a>				
		✓	D12	<a href="#">Draft IEEE P1815.1 mapping specification</a>				
		⊙	D13	<a href="#">IEEE IEEE 1815.1 mapping specification published as an IEEE standard</a>				
		⊙	D5	<a href="#">IEC 61850-80-2 (Joint Logo) New Work Item Proposal</a>				
		⊙	D6	<a href="#">IEC 61850-80-2 (Joint Logo) Mapping Specification published</a>				
		⊙	D7	<a href="#">DNP3 Application Note - IEC 61850 Integration</a>				
A2	Actively coordinating the work with the NIST contractor (ESTA/Quanta) and the NIST project leader.	⊙	D8	<a href="#">Changes to IEC 61580 Specifications</a>				
		⊙	D9	<a href="#">Changes to DNP3 Specifications</a>				
		⊙	D10	<a href="#">Example DNP XML and SCL files</a>				
A3	The PAR for IEEE Std P1815.1 has been approved by the IEEE NESCOM at the meeting on Jan. 21st, 2011							
A4	The new IEEE Working Group C14 is formed and working as fast as possible to complete the work for IEEE Std P1815.1. IEEE C14 leadership consists of Lee Smith, Chair; Ron Farquharson, Vice Chair; Sam Sciacca, Secretary. First face to face meeting for C14 occurred on Jan. 10th, 2011 in conjunction with the IEEE JTCM. Subsequent meetings have been approximately once a week. A core group is meeting more often.							
A5	PAP-12 leadership is engaging IEC WG-10 for collaboration leading to future dual (IEEE and IEC) logo standard. IEC WG10 met in Brisbane on Feb 28th along with some IEEE C14 members. In general, the IEC WG is in support of the draft document and the direction of IEEE Std P1815.1.							
A6	Have established contact with the <a href="#">SGiP CSWG</a> liaison for PAP-12 (Frances Cleveland) and have received initial draft contributions on cyber security requirements as input. Also have liaison contact, Steve Behrens, KEMA for the SGAC. In the process of establishing liaison with SGTCC.							
A7	We have approached the IEEE SA staff to ask if they are able to support the new IEEE Std P1815.1 mapping specification on an accelerated basis.							
A8	IEEE Working Group C12 plan to add the DNP3 Secure Specification (V4) to the 2011 update of IEEE Std 1815							
A9	Continuing coordination with PAP-7. A draft guide on "how you use DNP for communications with inverters" to address current industry needs has been released. The IEEE P1815.1 Mapping document will address known requirements for inverter communications using IEC 61850 which will lead to the use of 61850-7-420.							
I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
		✓	TPMO1	PAP Initiation	2009-09	2009-09	<a href="#">SGiP</a>	

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

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 <a href="#">McCauley</a>	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 <a href="#">McCauley</a>	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.	March 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	June-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			

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

Updated March 7, 2011

A#	Current Activities and Accomplishments	S	D#	Deliverable
A1	New NIST contractor has published a draft report with recommendations for PAP-13	✓	D1	<a href="#">Harmonization use cases and requirements</a>
A2	PAP-13 leadership is working with NIST project leader and the contractor to coordinate the work.	✓	D2	<a href="#">C37.118 Enhancement (gaps) List</a>
A3	A sub-group of IEC WG-10 continues to update the IEC 61850-90-5 technical report which has been released for comments.	🟡	D3	<a href="#">IEC 61850-90-5 Mapping document</a>
A4	The sub-group of the IEC met on March 2nd to continue accepting comments and input from the IEC WG.	✓	D4	<a href="#">1588 Time Sync Demo</a>
A5	The cyber security portion (group key management) has been reviewed by the IEC WG-15 Sub-Task Force and this is now complete pending further comments.	🟡	D5	<a href="#">1588 Power Profile - IEEE PC37.238</a>
A6	Coordination with the <a href="#">SGIP CSWG</a> is underway and active with important additions being proposed to the standard (cyber key management)	🟡	D6	<a href="#">Amendments to IEC 61850 documents</a>
A7	Have established liaisons with the <a href="#">SGIP</a> SGAC and SGTCC	🟡	D7	<a href="#">Amendments to IEEE C37.118 document(s)</a>
A8	Working group IEEE PSRC H7/C7 - IEEE PC37.238 (Power Profile for IEEE 1588) have successfully balloted the document and are addressing the comments.	🟡	D8	<a href="#">Guideline for Harmonizing C37.118-2005 with IEC 61850</a>
A9	Comments from the IEC have been received regarding IEEE PC37.238 (Power Profile for IEEE 1588). A dual logo standard is expected.			

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

12						
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	Mar-2011		NIST Contractor	D5
✓	T7	Differences in time stamps C37.118 / IEC 61850	Sep-2010	Oct-2010	IEEE H7 / TC57/WG10	D3
●	T8	Amendments to IEC 61850 (if applicable)	Mar-2011		TC57/WG10	D6
●	T9	NIST Testbed for 1588 - Requirements	Mar-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	April-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			

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

Updated Feb 8, 2011.

A# Current Activities and Accomplishments		S D# Deliverable	
A9	Priority Process Tool Revised to 8 Criteria Dual Path Approach:Key Applications and Standards Development	✓ D1	<a href="#">Report on the impact of C37.239 on CIM and IEC 61850</a>
A10	Comfede Standard Now Complete as an IEEE Standard C37.239 for Event Management: Integrates IEC 61850 and XML	✓ D2	<a href="#">A master list of use cases (task 6)</a>
A3	Transmission Bus Load Model scoped as initial key Use Case for Integration of Transmission and Distribution Dynamics	⚠ D3	<a href="#">New and refined use cases (task 7)</a>
A4	Identifying Use Cases in Progress within SDOs IEEE, IEC and other	⚠ D4	<a href="#">Updates of models (task 7)</a>
A8	Development of list of use cases in cooperation with SDOs		

  

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
I0	Now working on a priority process to effectively rescope PAP to work with multiple key SDO Working Groups	✓	TPMO1	PAP Initiation	2009-09	2009-09	<a href="#">SGIP</a>	
I1	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	
I3	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			
I4	Need expert help in developing identified use cases in sufficient detail to contribute to standards development	⚠	TPMO4	Standards Handback to PAPWG from SSO	2011-07			
I5	Need to apply expert help in harmonization, integration and unification of key standards	⚠	TPMO5	GB/SGIP Vote			Administrator	
		⚠	TPMO6	Plenary Vote			Administrator	
		⚠	TPMO7	Post to Catalog or IKB			<a href="#">PAP14WG</a>	
		⚠	TPMO8	Close PAP			<a href="#">PAP14WG</a>	

  

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	Dec-	July-	WG 19	D2

	master list	2009	2010		
	T5 Refining use cases	May-2011		WG 19	D3
	T6 Identifying and assigning use cases – IEEE and IEC TC57 and other	April-2011		IEEE PSRC, IEC TC57	D3
	T7 Develop contributions to communication objects and system models	May-2011		IEEE PSRC, IEC TC57	D4
	T8 Prioritizing Use Cases for Most Critical Needs	March-2011		IEEE, T&D DEWG, IEC, NASPI	D5
	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			

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

Updated Feb 23, 2010.

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 <a href="#">SGiP</a> during the <a href="#">SGiP</a> Chicago meeting on Dec 2, 2010.	✓	D1	<a href="#">Final Task 1 Deliverable and supporting documents</a>
		✓	D2	<a href="#">Final Task 2 Deliverable</a>
		✓	D3	<a href="#">NB coexistence mechanism</a>
		✓	D4	Harmonized BB Coexistence standards, P1901, G.9972, standards available from IEEE, ITU-T
		✓	D5	<a href="#">Announcement of joint IEEE ITU-T work on NB standard.doc</a>
		✓	D6	Development of output report on Broadband Coexistence
		✓	D7	<a href="#">Approved requirement specification for Narrowband Power Line Communications standards</a>
		⊙	D8	Interoperable Joint NB PLC Standard
A9	Developing appliance centered NB-PLC requirements with input from <a href="#">AHAM</a> and <a href="#">OpenSG</a> / Communications. Report now in draft, Accepting comments from P1901.2, Finalizing report.			

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
		✓	TPMO1	PAP Initiation	2009-10	2009-10	<a href="#">SGiP</a>	All
		✓	TPMO2	PAP Charter Developed	2009-11	2009-11	<a href="#">SGiP</a>	All
		✓	TPMO3	Form Initial Team	2010-01	1020-01	<a href="#">SGiP</a>	All
		✓	TPMO4	Develop List of Deliverable and Tasks with Assignments	2010-01	2010-01	<a href="#">SGiP</a>	All
		✓	TPMO5	Work with SDOs to harmonize BB PLC Coexistence standards	2010-06	2010-06	IEEE,ITU-T	All
		✓	TPMO6	Identify SDOs for NB PLC coexistence standard	2010-07	2010-08	<a href="#">SGiP</a>	
		⊙	TPMO7	Development of Requirements for NB PLC By PAP15	2010-11	2011-02	<a href="#">SGiP</a>	
		⊙	TPMO8	Requirements for NB PLC Handoff to SDO	2010-11	2011-02	<a href="#">SGiP</a>	
		⊙	TPMO9	Standards Handback to PAPWG from SDO	2011-??		IEEE,ITU-T	
		⊙	TPM10	SSO Results submitted to GB by PAP after completing analysis				
		⊙	TPM11	PAP Complete				
S	T#	PAP Work Tasks	Due	Actual	Resp	D#		
✓	T1	Create a list	March	March	Subgroup on	D1-Final		

		of existing PLC technologies and revise them according to home appliances requirements	23rd, 2010	23rd, 2010	coexistence	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 Band (NB) Coexistence mechanism	April 2010	April 27, 2010	NB Task Force of Subgroup on coexistence	D3-Report 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 Appliance	November 2010	Feb 23,	PAP-15 - Requirements	D7-requirement

	Centered NB-PLC Requirements		2011		specification approved, Feb 7, 2001; delivered to SDOs Feb 23, 2011
	T7 IEEE and ITU-T to jointly develop a NB PLC standard	TBD			D8-standard 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			

**Status of PAP16: Wind Plant Communications**

Updated March 7, 2011.

A# Current Activities and Accomplishments		S	D#	Deliverable		
A1	Requirements mapped to E61400-25	✓	D1	<a href="#">Requirements related to wind power plant communications from use cases</a>		
A2	Gaps identified, identifying recommendations					
A3	NIST letter to IEC SG3 sent	✓	D2	<a href="#">Requirements mapping and gaps existing between 61400-25 standard and Task 1 use cases</a>		
A4	Recommendations to IEC being written					
A5	Contacted TC88 and SG3 at IEC to start the process	🟢	D3	<a href="#">Best practices on the application of 61400-25 in the US</a>		
A6		🟢	D4	<a href="#">Specific recommendations to the IEC TC 88 working group</a>		
A7						

  

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
I1		✓	TPMO1	PAP Initiation	2010-01	2010-01	<a href="#">SGIP</a>	
		✓	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	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 power plant communications from use cases	June-2010	June-2010	UWIG et al	D1
✓	T2A	Map the requirements of task 1 into 61400-25.	July-2010	August 2010	PAP 16/61400-25 User Group	D2

<input checked="" type="checkbox"/>	T2B	Identify Gaps and develop recommendatios.	September 2010	September 2010	PAP 16	D2
<input type="checkbox"/>	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
<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	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			

## Status of PAP17: Facility Smart Grid Information Standard

Updated February 8, 2011.

A#	Current Activities and Accomplishments	S	D#	Deliverables
A10	The <a href="#">PAP17WG</a> completed its review of use cases and accepted a set to form the core of PAP17 recommendations on 12/2/2010.	✓	D1	<a href="#">Use Cases</a>
		●	D2	<a href="#">Information Models</a>
		●	D3	<a href="#">Draft Standard</a>
A11	The <a href="#">PAP17WG</a> began its review of the core requirements for PAP17 on 12/2/2010.	●	D4	<a href="#">Published Standard</a>
A12	The <a href="#">PAP17WG</a> completed its review of the core requirements for PAP16 on 01/05/2011.	✓	D5	<a href="#">Requirements</a>
A13	The <a href="#">PAP17WG</a> has handed off its core requirements to ASHRAE for consideration.			

  

I#	Issues, Concerns & Help Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
I5	Face-to-face meeting in Chicago accelerated some of the work but the group is still a bit behind on creating and accepting requirements.	✓	TPMO1	PAP Initiation	2010-07	2010-07	<a href="#">SGIP</a>	
		✓	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
		●	TPMO5	GB/SGIP Vote	2011-06		Administrator	
		●	TPMO6	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 draft Facility Smart Grid Information Standard	2011-04		ASHRAE	D3
●	T4	Publication of final Facility Smart Grid Information	2011-06		ASHRAE	D4

Standard				
----------	--	--	--	--

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

[TnD](#) DEWG Status

Updated February 7, 2011

A# Current Activities and Accomplishments		S	D#	Deliverable			
A1	Setup and staff subgroups		D1	<a href="#">Roadmap</a>			
A2			D2	<a href="#">Advanced Use Cases</a>			
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			

**Activities and Accomplishments**

- Focus on strategic perspective for the H2G domain
- Provide smart grid H2G interoperability requirements
- Identify regulatory and policy issues
- Evolve the NIST SG Interoperability Framework
- Evaluate PAP progress & provide support
- Issued six white papers

**Upcoming Key Milestones and Activities**

- Work with EMIIWG on consumer device EMC issues
- Monitor U-SNAP/EPRI appliance socket spec. merger
- Advance merged appliance socket spec. to a standard
- Coordinate DR messaging options
- Write installation guide to minimize EMC problems
- Assist the SGIP HAN TF upon request

**Deliverables**

- Completed:
  - Home-to-Grid Requirements
  - Interoperable Networks, Systems, Devices
  - Privacy of Consumer Information
  - Appliance Physical Layer Communications
  - Appliance Socket Interface
  - EMC Issues for Home-to-Grid Devices
- In progress:
  - Appliance Socket Interface (ASI) Specification
  - Protocol extensions of ASI for DR
  - Installation guide for EMC protection
  - Standard based on ASI specification

**Issues, Concerns, and Help Needed**

- Coordination with EMIIWG is proceeding well
- SGIP HAN TF stopped H2G review of SEP document
- Provide options for simple to complex home products
- Foster DR innovation by CE & appliance makers

**B2G DEWG Status**

Updated February 22, 2011

A# Current Activities and Accomplishments		S D# Deliverable	
A1	Weather Standards--how do we get weather data for facilities in a standard format	D1	<a href="#">Weather Information Exchange</a>
A2	ESI white paper to help define the facility interface	D2	ESI white paper to help define the facility interface
A3		D3	Roadmap for standards interop
		D4	Advanced <a href="#">B2G</a> Use Cases
		D5	<a href="#">Analysis of CoS Standards</a>

  

I# Issues, Concerns & Help Needed		ST# PAP Work Tasks		Due	Actual	Resp	D#
I1	Need volunteers to help with standards evaluations	T1	Develop Weather PAP Proposal	2011-08			D1
I2	Need support from <a href="#">PMO</a> for ???	T2	Develop ESI White Paper	2011-08			D2
		T3	Produce Road Map	2011-06			D3
		T4	Advance use cases	2011-04			D4
		T5	Review ASHRAE 201P	2011-08			D5
		T6	Review of ASHRAE 135	2011-08			D5

**I2G DEWG Status**

Updated February 7, 2011

A# Current Activities and Accomplishments		S	D#	Deliverable			
A1	Setup and staff subgroups		D1	<a href="#">Roadmap</a>			
A2			D2	<a href="#">Advanced Use Cases</a>			
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

**V2G DEWG Status**

Updated February 7, 2011

A# Current Activities and Accomplishments		S	D#	Deliverable		
A1	Setup and staff 7 subgroups		D1	<a href="#">Roadmap</a>		
A2	March 1 Brainstorm Workshop		D2	<a href="#">Advanced Use Cases</a>		
A3	Reviewing fast charge PAP proposal					

  

I# Issues, Concerns & Help Needed		S	T#	PAP Work Tasks	Due	Actual	Resp	D#
I1	Completing PAP11 2847		T1	Road Map	2011-06		Karthik Krishna Colorado Springs Utility	D1
I2	Completing new PAP proposals		T2	Advance use cases	2011-04		Jerry Melcher	D2

  

Status	Schedule	Deliverables	Resources
Jan 2011			
Feb 2011			

**B&P DEWG Status**

Updated February 7, 2011

A# Current Activities and Accomplishments		S	D#	Deliverable		
A1	Setup and staff subgroups		D1	<a href="#">Roadmap</a>		
A2			D2	<a href="#">Advanced Use Cases</a>		
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			