

Designation:	Name:								
SG 14									
		·				Minutes Approved:	Minutes Annroyed:		
Virtual			.30 CST	2021/05/03			/20		
			roval Date:	PAR Expiration Date:	Target Sponsor Ballot Date:				
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Presiding Officer:				Recorded by:	Draft Nu	mber:			
Steven Kunsman Chair, Shashi Sastry Vice-cha			ir	Shashi Sastry 1.0					
Attendance:	<u>, </u>	<u> </u>							
Attendance.									
	Name			Affiliat	ion	Phone (P) / Web (W) / Local (L)	M/CM/G		
Steven Kunsmai	า		Hitachi ABI	В		w	M		
Shashi Sastry			Hitachi ABI	В		W	М		
James Formea			Eaton	Eaton			М		
Nicholas Kraemer			NuGrid Pov	wer	W	М			
Shane Haveron			AMETEK Power Instruments			W	М		
Jay Anderson			ComEd			W	М		
Roman Graf			Buhler Group			W	М		
Jack Chang			Hitachi ABB			W	М		
Deryk Yuill			iS5 Communications			W	CM		
Scott Mix			PNNL			W	М		
Jeff Pack			Power Eng	ineers Inc	W	CM			
Herb Falk		UTB Consulting			W	М			
Mike Dood		Schweitzer Engineering Labs			W	М			
Ryan Newell			TRC		W	М			
Jason Lombardo			S&C Electric Company			W	М		
Karen Leggett Wyszczelski			Schweitzer Engineering Labs			W	М		
Theo Laughner			Powergrid-rx			W	M		
Joe Xavier			ABB			W	М		
Colin Gordon			SEL		W	М			
Steven Blair			Synapt		W	М			
Jackie Wilson			Ameren			W	M		
Eric Thibodeau			Hydro Quebec			W	M		
Gayle Nelms			Schweitzer Engineering Labs			W	CM		
Jesse Silva			Southern California Edison			W	M		
Craig Preuss			Black & Veatch			W	M		
David Dolezilek			Schweitzer Engineering Labs			W	M		
Jalal Gohari M:Member			WSP			W	M		

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Item no.	Notes	Action by
CALL TO ORDER	Meeting was called to order at 11.34 CST	SK
INTRODUCTIONS	Total 24 attendees; Brief intro by Steven & Shashi.	Steve & Shashi
AND QUORUM	Total 24 attendees, blief intro by Steven & Shasin.	Steve & Shashi
CHAIR'S REMARKS	Second meeting to discuss the report goals, topics to cover, and identify use	All
CHAIR S REMARKS	cases at a high level for the use of secure communications - HTTPS, TLS.	7 (1)
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AGENDA	 Brief introductions 	ALL
	 Outcome of the last meeting 	
	 Review of assignments and scope 	
	 Report outline 	
	Next steps	
APPROVAL OF	Approved with the following minor corrections:	ALL
PREVIOUS MINUTES	Everyone is a member	
	 Nicholas Kraemer appears twice 	
	Colin Gordon is associated with SEL	
[AGENDA ITEM 1]	Outcome of the last meeting:	Steven Kunsman
	 Agreed to run the SG for one more session to prepare a 	
	recommendation on moving to a TF to the S Subcommittee	
	 The intent would be to create a TF focused on a report that is useful 	
	today in the OT community on when and where to use and also where	
	not to use	
	TF initial focus on developing a report would allow NERC & IEC to	
	solidify encryption and end-to-end authentication developments	
	o TF can recommend moving to a WG focusing on either a Guide	
	or Recommended Practice when the report is complete	
IDISCUSSION ITEM 11	Can this report be completed quickly?	Craig Preuss
[2100000101112112]	 We can use existing recommendations from the enterprise IT area 	
	however needs to be pertinent to our use cases (Shashi).	
	 We can't get ahead of NERC, IEC, and IEEE efforts. Coordination required. 	
	And speed is essential as well (Steve).	
	 Emphasis the requirements for coordination going back to the Sub-C and 	
	Committee (Craig).	
[DISCUSSION ITEM 2]	 Differences in TLS 1.2 and 1.3 for authentication and non-encrypting 	Herb Falk
	ciphers due to privacy concerns. Makes edge inspection and end-to-	
	end tunnelling very difficult.	
	 Renegotiation of symmetric keys with session negotiation could break 	
	the connection and may affect the application.	
[DISCUSSION ITEM 3]		Scott Mix
	efforts if this report was published quickly.	
[DISCUSSION ITEM 41	Comparison of TLS versions to be included in report to illustrate differences and	Shane Haveron
	the requirements for different use cases.	
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Item no.	Notes	Action by
[DISCUSSION ITEM 5]	The rest of the discussions resulted in following report outline:	James Formea,
	 Develop a report on the implementation of TLS for usage in legacy (e.g. 	Theo, Scott Mix,
	SCADA) and emerging (e.g. DER) power system applications	Herb Falk, Shane
	Document the existing use cases including HTTPS, legacy end points, long standing	Haveron, Craig
	point-to-point connections, short term point-to-point connections	Preuss, Jesse
	Identify the barriers to successful implementation	Silva
	Identify inappropriate uses and why is very relevant	
	Identify the various configuration options (e.g. TLS v1.2 vs v1.3, PKI and certificate management)	
	Document the existing cypher suites and the impact of interoperability issues leveraging the IEC 62351 development	
	Note: deferring the inclusion of quantum resistant cypher suites from this report	
ACTION	 In summary going back to the Sub-C and Committee, emphasis the requirements for coordination with NERC and IEC. SG approved the motion to request SO SC approval to move S14 into a Task Force. The request was made to SO officer to discuss the above proposal under SC New Items. 	Steven Kunsman
CLOSING	Chair: Shashi Sastry	Steven Kunsman
REMARKS/FINAL	Vice Chair: Colin Gordon (note: volunteered for VC via email post meeting)	
CONCLUSION	()	
ITEMS REPORTED OUT OF EXECUTIVE SESSION		
TIME OF FINAL ADJOURNMENT	12.20 p.m. CST	
NEXT VIRTUAL MEETINGS	September 2021	
FUTURE MEETING	[Room Size][Projector][Conflicts]	
ROOM REQUIREMENTS	Room for 30, Webex, Computer Projector (when we meet in person)	

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