Comment Template for: Draft Profile of Responsible Use of Positioning, Navigation, and Timing Please submit responses to: pnt-eo@list.nist.gov by November 23, 2020

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Comment #	Organization Nom-	Submitted Dy (News/Fusti)	Dogo #	Line # Contin	Comment	Suggested Change	Type of Comment				
Comment #		Submitted By (Name/Email)		Line # Section		Suggested Change	(General/Editorial/Technical)				
1	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	1	1	According to IEEE and IEC, a profile is a subset of a standard. The akwardness	standard the document is a	Editorial				
2	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	1	1	In general, the text is too verbose and self-praising	streamline the text	Editorial				
3	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	1	249	"such as" is confusing	Remove "such as"	Editorial				
4	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	2	271	"GPS" is too specific since diversity of time/position sources provides a protection and radio is not the only time distribution medium.	Use "GNSS" instead of GPS. Also consider other sources of time/position such as WWV or inertial, as line 326-328 says	Editorial				
5	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	4	293	First paragraph is redundant text	Concentrate on "customization"	Editorial				
6	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	5	337	IEC standards are missing	Consider IEC 62443 and IEC 62351	Editorial				
7	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	5	341	redundant text	the sponsors should be named in the introduction	Editorial				
8	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	9	406	detect disruption, etc	use the identifier given in Table 1	Editorial				
9	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	8	400	terms "custom-tailored", "custom profile", "tailored profile"	use only one term	Editorial				
10	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	9	413	"high-level profile", "sector-subsector profile" hints at a hierarchical "profiles	Use only one term for the PNT "Profile" (with uppercase?)	Editorial				
11	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	11	437	unique identifiers of Table 1 missing	name the unique identifiers, eg. ID.AM	Editorial				
12	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	15		"Continuous calibration to UTC" UTC is legal time but is not a safe reference	Reference TAI time as distributed by GPS or IEEE 1588	Technical				
13	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	15		Using antenna to find receivers is quite challenging. This applies only to PNT receivers that transmit radio signals.	Explain how antennas can be used to find PNT receivers.	Technical				
14	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	17		What is meant by "relative precision" ?	Clarify	Editorial				
15	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	18	AM3	Methods for resolving data discrepancies cannot be identified off- line	Indicate that there are several simultaneous PNT sources, and set criterial for "most beneficial" sources in face of cyber-threat.	Technical				
16	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)		AM4	"locate all PNT antennas" presumes that the time distribution is via radio, which applies only to the grandmaster clocks.	Clarify how to identify the other PNT devices	Technical				
17	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	21		Table 4 refers to "Business Environment" but it is unclear how this can relate to "business"	Is that "operational" ?	Editorial				

18	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	21		"link delays " are static, except when radio-connected objects are moving	Explain what "static and dynamic delay" means	Technical
19	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	21		indeed, leap seconds can be handled differently and this is a source of confusion that should not exist in a well	Require that leap second handling is uniform and checked throughout the system. Refer to the leap second handling in IEC 62439-3 (not in list) and IEC 61850-90- 4. Recommend using TAI	
20	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	R	Ref	IEC 62439-3 missing (doubly attached clocks in highly available networks).	include IEC 62439-3 Ed. 4 International Electrotechnical Commission, (2021) Industrial Communication Networks - High availability automation networks - Part 3: Parallel Redundancy Protocol (PRP) and High-availability Seamless Redundancy (HSR), available at at: https://webstore.iec.ch/public ation/24447 (to be corrected after publication)	Editorial
21	IEC TC57 WG10 / IEC TC57 WG10	Hubert Kirrmann (Switzerland)	4	L	In general, the distinction between design phase, implementation phase, test phase, deployment, operation, maintenance and disposal is not adequalty reflected in the categories.	The document would benefit from being organized according to the life-cycle rather than by categories such as identify, protect, detect, respond, recover. A checklist would be appreciated.	General