

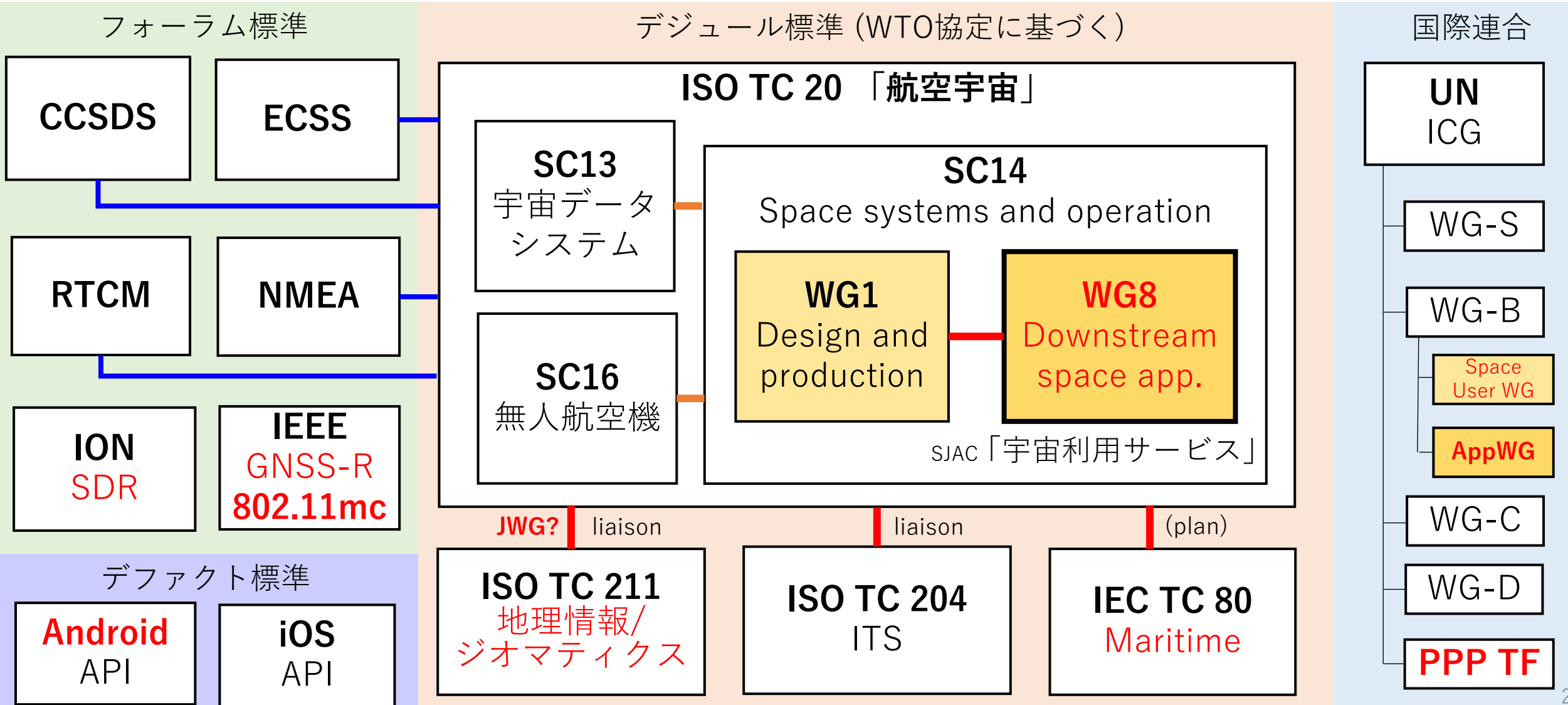
国際標準化に関する進捗報告

2022年11月24日

高精度衛星測位サービス利用促進協議会(QBIC)
標準化WG

急速に進む世界秩序形成、政府政策と業界対応

フランス政府機関やアメリカ業界の主導で世界秩序形成が急速に進展。日本官民は先頭集団に残る努力。



急速に進む世界秩序形成、政府政策と業界対応(略語集)



API	Application Program Interface	
AppSG	Application Sub-Group (国際連合)	
CCSDS	Consultative Committee on Space Data Systems, 宇宙データシステム諮問委員会	
ECSS	European Corporation for Space Standardization, 欧州宇宙標準化協力会議	
GNSS-R	GNSS Reflectometry, GNSS気象計測	
IEEE	Institute of Electric and Electronic Engineers, 米国電気電子工学会	
ICG	GNSS国際委員会 (国際連合)	
ION	Institute Of Navigation, 米国航法学会	
IEC	International Electrotechnical Commission, 国際電気標準会議	
ISO	International Organization for Standardization, 国際標準化機構	
NMEA	National Marine Electronics Association, 全米船用電子機器協会	
PPP	Precise Point Positioning, 精密単独測位	
RTCM	Radio Technical Commission for Maritime Services, 海事無線技術委員会	
SDR	Software-Defined Receiver (or Radio)	
UN	United Nations, 国際連合	
		JWG Joint Working Group, 合同作業部会
		SC Sub-Technical Committee, 小委員会
		TC Technical Committee, 技術委員会
		TF Task Force, 作業部会
		WG Working Group, 作業部会

ISO/FDIS 24245 受信機分類コード

FDIS: Final Draft International Standard

Title	ISO/DIS 24245 Space systems—Global navigation satellite system (GNSS) receiver class codes		
DIS ballot	Closed on 2022-09-27		
Voting	Approved	BRA, CHN, FIN, FRA, DEU, ITA, JPN, KAZ, RUS	9 nations
	Non-approved	USA	1 nations
	Abstain	AUS, IND, ROU, ESP, UKR, GBR	6 nations
Result	Approved		
Comment	28 comments (USA : 1, JPN : 6, ISO editor : 21)		
Next action	FDIS draft by 2022-11-30		

ISO/FDIS 24245 受信機分類コード

FDIS: Final Draft International Standard

M : Messaging with positioning information	M1 : One-way messaging or broadcasting		Search and rescue
	M2 : Two-way communication		
T : Timing (time and time interval)	T1 : Single frequency band		
	T2 : Dual or multiple frequency band		
C : Code-based positioning	C1 : Single frequency ranging	C10, C10a : No augmentation	Point positioning
		C11, C11a : DGNSS OSR corrections	DGNSS
		C16, C16a : SSR correction without fixed phase range	ISO18197§5.4.1
	C2 : Dual or multiple frequency ranging	C20, C20a : No augmentation	Dual frequency
		C25, C25a : DFMC SBAS	Ditto
		C26, C26a : SSR correction without fixed phase range	ISO18197§5.4.1
P : Phase-range positioning	P0 : No ranging	P06, P06a : Input SSR / Output OSR correction	
	P1 : Single frequency ranging	P10, P10a : OSR correction	RTK, NRTK
		P16, P16a : SSR correction	PPP, PPP-RTK
	P2 : Dual or multiple frequency ranging	P20, P20a : OSR correction	RTK, NRTK
		P26, P26a : SSR correction	PPP, PPP-RTK

[NOTE] RTK: Real-time Kinematic, OSR: Observation Space Representation, SSR: State Space Representation

ISO/AWI 13657 位置情報交換フォーマット

AWI: Approved Work Item

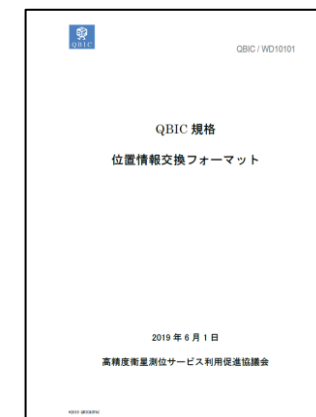
Title	ISO/NP 13657 Space systems –Space-based services – Positioning information exchange service		
DIS ballot	Closed on 2022-03-20		
Voting	Approved	AUS, BRA, FIN, FRA, ITA, JPN, KAZ, RUS, UKR	9 nations
	Non-approved	USA	1 nations
	Abstain	CHN, DEU, ESP, IND, GBR	6 nations
Result	Approved		
Comment	19 comments (FRA: 2, ITA: 6, JPN: 10, USA: 1)		
Next action	Committee draft circulation will start around 2022-12-15		

ISO/AWI 13657 位置情報交換フォーマット

The contents have received the feedback from the actual business market (see the lower-right) and the voice of real users is brushing up them.

1. Scope
2. Normative references
3. Terms and definitions
4. Positioning information exchange services
 - 4.1 Basic information (coordinate system, feature size, etc)
 - 4.2 Date and time data
 - 4.3 Positioning result data
 - 4.4 Positioning quality information
 - 4.5 Satellite alignment information
 - 4.6 Velocity and direction data
 - 4.7 Precise measurement point information
 - 4.8 Dynamic coordinate information
 - 4.9 Multi-purpose data
 - 4.10 Contents and formats

Publication for actual market by the QBIC council* in 2018-2022 (Japan).



[Abbreviation] * QBIC: QZSS Business Innovation Council

ISO/AWI 16215-1 衛星測位(PNT)サービス:基礎的事項

AWI: Approved Work Item

Title	ISO/NP 16215-1 Space systems – Space-based positioning, navigation and timing (PNT) services – Part 1: architectural basis		
NP ballot	Closed on 2022-04-17		
Voting	Approved	AUS, BRA, CHN, ESP, FRA, ITA, JPN, KAZ, RUS	9 nations
	Non-approved	USA	1 nations
	Abstain	AUS, DEU, FIN, IND, ESP, UKR, GBR	7 nations
Result	Approved		
Comment	33 comments (FRA : 18, JPN : 15)		
Next action	Committee Draft Circulation (CDC) in December 2022		

宇宙利用サービスの参照アーキテクチャ・フレームワーク

The SC 14 committee promote ISO 13537 Reference Architecture and its extension. It is useful for service and application systems

