H21 企国第 0009 号
平成 21 年 3 月 3 日

規 格 会 議
委 員 各 位

社団法人電波産業会
規格会議委員長　永 井 研 二

第 73 回規格会議の開催について

標記について、下記のとおり開催しますので、ご出席下さい。
なお、記の 4 に掲げる事前送付資料を送付しますので、同資料についてご意見のある場合は、平成 21 年 3 月 11 日(水)までに郵送、FAX 又は E-mail により連絡先の担当までご連絡下さい。
おって、事前送付資料は第 73 回規格会議にご出席の際に、ご持参下さい。

記

1　日　時　平成 21 年 3 月 18 日(水)　午後 3 時から 5 時まで
2　場　所　東海大学校友会館　望星の間（霞が関ビル 33 階）(添付の案内図参照)
　　東京都千代田区霞が関 3-2-5

3　議　案
(1) IMT-2000 DS-CDMA and TDD-CDMA System 標準規格及び技術資料の改定について
(2) IMT-2000 MC-CDMA System 標準規格及び技術資料の改定について
(3) OFDMA Broadband Mobile Wireless Access System (WiMAX™ applied in Japan) 標準規格の改定について
(4) OFDMA / TDMA TDD Broadband Wireless Access System (Next Generation PHS) 標準規格の改定について
(5) 特定ラジオマイクの陸上移動局の無線設備標準規格の改定について
(6) デジタル簡易無線局の無線設備標準規格の改定について
(7) 地上デジタルテレビジョン放送用デジタル STL/TTL 伝送方式標準規格の改定について
(8) デジタル放送におけるアクセス制御方式標準規格の改定について
(9) アスペクト比 16:9 の画面におけるセーフティーゾーン技術資料の改定について
(10) その他

4　事前送付資料
規格会 73-3　IMT-2000 DS-CDMA and TDD-CDMA System ARIB STANDARD (ARIB STD-T63 Ver.7.20) (Draft) (DVD-R)
規格会 73-4　IMT-2000 DS-CDMA and TDD-CDMA System ARIB Technical Report (ARIB TR-T12 Ver.7.20) (Draft) (DVD-R)

規格会 73-5　IMT-2000 MC-CDMA System ARIB STANDARD
(ARIB STD-T64 Ver.4.80) (Draft) (DVD-R)
規格会 73-6　IMT-2000 MC-CDMA System ARIB Technical Report
(ARIB TR-T13 Ver.4.80) (Draft) (DVD-R)
規格会 73-7　OFDMA Broadband Mobile Wireless Access System (WiMAX™ applied in Japan) ARIB STANDARD (ARIB STD-T94 Ver.1.4) (Draft) (CD)
規格会 73-8　OFDMA / TDMA TDD Broadband Wireless Access System (Next Generation PHS) ARIB STANDARD (ARIB STD-T95 Ver.1.2) (Draft) (CD)
規格会 73-9　特定ラジオマイクの陸上移動局の無線設備標準規格
(RCR STD-22 3.0 版)(案) (CD)
規格会 73-10　デジタル簡易無線局の無線設備標準規格
(ARIB STD-T98 1.1 版)(案) (CD)
規格会 73-11　地上デジタルテレビジョン放送用デジタル STL/TTL 伝送方式標準規格
(ARIB STD-B22 2.0 版)(案) (CD)
規格会 73-12　デジタル放送におけるアクセス制御方式標準規格
(ARIB STD-B25 5.1 版)(案) (CD)
規格会 73-13　アスペクト比 16:9 の画面におけるセーフティゾーン技術資料
(ARIB TR-B4 2.0 版)(案) (CD)

参考資料73-1　IMT-2000 DS-CDMA and TDD-CDMA System 標準規格及び技術資料の改定の概要
参考資料73-2　IMT-2000 MC-CDMA System 標準規格及び技術資料の改定の概要
参考資料73-3　OFDMA Broadband Mobile Wireless Access System (WiMAX™ applied in Japan) 標準規格の改定の概要
参考資料73-4　OFDMA / TDMA TDD Broadband Wireless Access System (Next Generation PHS) 標準規格の改定の概要
参考資料73-5　特定ラジオマイクの陸上移動局の無線設備標準規格の改定の概要
参考資料73-6　デジタル簡易無線局の無線設備標準規格の改定の概要
参考資料73-7　地上デジタルテレビジョン放送用デジタルSTL/TTL伝送方式標準規格の改定の概要
参考資料73-8　デジタル放送におけるアクセス制御方式標準規格の改定の概要
参考資料73-9　アスペクト比16:9の画面におけるセーフティーゾーン技術資料の改定の概要

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IMT-2000 DS-CDMA and TDD-CDMA System 標準規格及び技術資料の改定の概要

1　改定理由

平成 20 年 12 月開催の 3GPP TSG 第 42 回会合において、リリース 99、リリース 4、リリース 5、リリース 6、リリース 7 及びリリース 8 の仕様について追加又は改定が承認された。このため、ARIB STD-T63/TR-T12 について、第 72 回規格会議(平成 20 年 12 月開催)において承認された Ver.7.10 に対して、これらの仕様の追加又は修正を反映するための改定を行い、それぞれ ARIB STD-T63 Ver.7.20 及び TR-T12 Ver.7.20 とする。

2　改定内容(Ver.7.10 → Ver.7.20)

(ア)リリース 99
① STD-T63 について 追加: 0 [0]件、 修正: 0 [0]件
② TR-T12 について 追加: 0 [0]件、 修正: 0 [0]件

(イ)リリース 4
① STD-T63 について 追加: 0 [0]件、 修正: 0 [2]件
② TR-T12 について 追加: 0 [0]件、 修正: 0 [0]件

(ウ)リリース 5
① STD-T63 について 追加: 0 [0]件、 修正: 6 [4]件
② TR-T12 について 追加: 0 [0]件、 修正: 0 [0]件

(エ)リリース 6
① STD-T63 について 追加: 0 [0]件、 修正: 6 [14]件
② TR-T12 について 追加: 0 [0]件、 修正: 0 [0]件

(オ)リリース 7
① STD-T63 について 追加: 0 [2]件、 修正:29 [37]件
② TR-T12 について 追加: 0 [0]件、 修正: 1 [0]件

(カ)リリース 8
① STD-T63 について 追加:142 [10]件、 修正:76 [61]件
② TR-T12 について 追加: 38 [1]件、 修正: 4 [2]件

上記[ ]内は前回 Ver.7.10 への改定時の件数。

改定内容の詳細は、STD-T63 については、別紙 1 を参照。TR-T12 については、別紙 2 を参照。

3　改定のポイント

(ア) リリース8に追加された新規番号の技術資料

TS 36.101：Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception

TS 36.104：Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception

仕様TS 36.101はE-UTRAの移動局、仕様TS 36.104はE-UTRAの基地局について、最低限満たすべき無線性能を規定している。

TS 36.113：Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) and repeater Electro Magnetic Compatibility (EMC)

TS 36.124：Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment

仕様TS 36.113はE-UTRAの基地局、仕様TS 36.124はE-UTRAの移動局について、評価方法及びEMC測定機器構成について規定している。

(イ) その他

リリース7、リリース8を中心に、302件の仕様が追加・修正されているが、今回は特に昨年12月の3GPP TSG第42回会合におけるリリース8凍結を受けて、E-UTRAの仕様として完備したものとなった。

4　電波法関連規則に関する事項の確認について

今回の追加・修正について、電波法・関連規則等との関係を調査した結果、問題ないことを確認した。

以上

(Annex 35)

3GPP ARIB Change history List of Standards Ver. 7.20 **18 March 2009**

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

None

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.102	4.12.0	4.11.0	R4 (TDD)	UE Radio transmission and reception (TDD)	UE reference measurement channel and performance requirement for 384kbps service
ARIB STD-T63-25.105	4.12.0	4.11.0	R4 (TDD)	Base Station (BS) Radio Transmission and Reception (TDD)	BS reference measurement channel and performance requirement for 384kbps service
ARIB STD-T63-25.123	4.16.0	4.15.0	R4 (TDD)	Requirements for Support of Radio Resource Management (TDD)	Modification for P-CCPCH RSCP intra frequency relative requirement Correction on Intra/Inter-frequency cell power level for UE to correctly evaluate a better ranked cell in idle state and power settings for related test cases

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.102	5.14.0	5.13.0	R4 (TDD)	UE Radio Transmission and Reception (TDD)	UE reference measurement channel and performance requirement for 384kbps service
ARIB STD-T63-25.105	5.10.0	5.9.0	R4 (TDD)	Base Station (BS) Radio Transmission and Reception (TDD)	BS reference measurement channel and performance requirement for 384kbps service
ARIB STD-T63-25.123	5.13.0	5.12.0	R4 (TDD)	Requirements for Support of Radio Resource Management (TDD)	Modification for P-CCPCH RSCP intra frequency relative requirement Correction on Intra/Inter-frequency cell power level for UE to correctly evaluate a better ranked cell in idle state and power settings for related test cases

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPPWG	Title	Change Summary
ARIB STD-T63-22.146	6.8.0	6.7.0	S1	Multimedia Broadcast/Multicast Service (MBMS); Stage1	Removal of SAE aspects to support eMBMS from Rel-8
ARIB STD-T63-25.102	6.12.0	6.11.0	R4 (TDD)	UE Radio transmission and reception (TDD)	UE reference measurement channel and performance requirement for 384kbps service
ARIB STD-T63-25.105	6.7.0	6.6.0	R4 (TDD)	Base Station (BS) radio transmission and reception (TDD)	BS reference measurement channel and performance requirement for 384kbps service
ARIB STD-T63-25.123	6.12.0	6.11.0	R4 (TDD)	Requirements for support of radio resource management (TDD)	Modification for P-CCPCH RSCP intra frequency relative requirement Correction on Intra/Inter-frequency cell power level for UE to correctly evaluate a better ranked cell in idle state and power settings for related test cases
ARIB STD-T63-25.321	6.17.0	6.16.0	R2	MAC protocol specification	UE restrictions on E-TFCIs
ARIB STD-T63-25.425	6.6.0	6.5.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Correction of CR127, adding codepoints for the new control frames

5. Release 7

5.1. Added Standards

None

5. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	7.3.0	7.2.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
ARIB STD-T63-22.016	7.1.0	7.0.1	S1	International Mobile Equipment Identities (IMEI)	Correction of SVN sending when network requests IMEI
ARIB STD-T63-22.146	7.3.0	7.2.0	S1	Multimedia Broadcast/Multicast Service ; Stage1	Removal of the requirement for Location dependent data flows for MBMS Broadcast.
ARIB STD-T63-22.246	7.4.0	7.3.0	S1	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1	Removal of Location dependent data flows for MBMS Broadcast
ARIB STD-T63-23.203	7.9.0	7.8.0	S2	Policy and charging control architecture	1. It is clarified that the AF (i.e. the P-CSCF) can instruct the PCRF to act on the currently available service information. To enable the PCC functionality to deal with incomplete service information the following enhancement is added for the UE mode: The binding mechanism section is enhanced by describing the PCRF behaviour when it is not possible to associate a PCC rule with a single IP-CAN bearer. 2. The service data flow filter concept is extended to include the encoding possibilities defined for the TFT packet filters.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-23.228	7.14.0	7.13.0	S2	IP Multimedia Subsystem(IMS); Stage 2	It is explicitly stated that P-CSCF may send session information to PCRF based on SDP offer in case the resources are available on the originating side.
ARIB STD-T63-25.101	7.14.0	7.13.0	R4	UE Radio transmission and reception (FDD)	Fading CQI requirement at higher geometry for 64QAM operation was introduced. Clarifications of HST propagation conditions and HSDPA performance requirement applicability were made.
ARIB STD-T63-25.102	7.13.0	7.12.0	R4 (TDD)	UE Radio transmission and reception (TDD)	UE reference measurement channel and perfromance requirement for 384kbps service
ARIB STD-T63-25.104	7.11.0	7.10.0	R4	Base Station (BS) Radio Transmission and Reception (FDD)	Clarification of HST propagation conditions was made.
ARIB STD-T63-25.105	7.11.1	7.10.0	R4 (TDD)	Base Station (BS) radio transmission and reception (TDD)	BS reference measurement channel and performance requirement for 384kbps service Correction to previous entry in history table
ARIB STD-T63-25.123	7.8.0	7.7.0	R4 (TDD)	Requirements for Support of Radio Resource Management (TDD)	Modification for P-CCPCH RSCP intra frequency relative requirement Correction on Intra/Inter-frequency cell power level for UE to correctly evaluate a better ranked cell in idle state and power settings for related test cases Modyfing the inter frequency monitoring ability of UE in TDD 1.28Mcps
ARIB STD-T63-25.141	7.12.0	7.11.0	R4	Base station (BS) conformance testing (FDD)	Clarifications of HS-SCCH structure for Test Model 6, Test model 1 and HST propagation conditions were made.
ARIB STD-T63-25.214	7.10.0	7.9.0	R1	Physical layer procedures (FDD)	Clarify F-DPCH TPC Combining Rule of cells in the same Radio Link Set (B.1). Correct a parameter name in the CPC procedures (6C). Clarify CQI repetition in case of UE

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					DTX (6C.1). Clarify E-DPDCH scaling (5.1.2.6). Correct E-DPDCH gain factor calculation (5.1.2.5B.2). Correct E-DPDCH gain factor interpolation in compressed mode (5.1.2.5B.2.4).
ARIB STD-T63-25.221	7.9.0	7.8.0	R1 (TDD)	Physical channels and mapping of transport channels onto physical channels (TDD)	Correct FPACH description (5A.3.3, 5A.3.3.1). Correct E-PUCH TPC description for 1.28 Mcps TDD (5A.3.14.3).
ARIB STD-T63-25.222	7.9.0	7.8.0	R1 (TDD)	Multiplexing and channel coding (TDD)	Clarify E-DCH RV index selection for 1.28 Mcps TDD (4.9.2.1.2).
ARIB STD-T63-25.224	7.9.0	7.8.0	R1 (TDD)	Physical layer procedures (TDD)	Clarify the precision and quantization mode for E-PUCH parameters for 1.28 Mcps TDD EUL (5.1.1.6.1). Correct HS-SICH synchronization description for 1.28 Mcps TDD (5.2.5).
ARIB STD-T63-25.308	7.9.0	7.8.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Removal of FFSs and correction to the messages used for UE capability signalling
ARIB STD-T63-25.321	7.11.0	7.10.0	R2	MAC protocol specification	Modification of E-RUCCH uplink sync transmission for 1.28Mcps TDD
ARIB STD-T63-25.423	7.11.0	7.10.0	R3	UTRAN Iur interface RNSAP signalling	Indication of E-DPCCH Power Boosting capability Correction on Usage for Transport Bearer Not Requested Indicator Correction of power control gap for 1.28Mcps TDD
ARIB STD-T63-25.425	7.9.0	7.8.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Correction of CR127, adding codepoints for the new control frames
ARIB STD-T63-25.433	7.11.0	7.10.0	R3	UTRAN Iub interface NBAP signalling	Indication of E-DPCCH Power Boosting capability Correction of power control gap for 1.28Mcps TDD Correction on Usage for Transport Bearer Not Requested Indicator

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.435	7.10.0	7.9.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Correction of CR182, allow node sync also for enhanced L2
ARIB STD-T63-25.453	7.12.0	7.11.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signaling	GANSS ASN.1 Correction
ARIB STD-T63-26.114	7.7.0	7.6.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Mode changes for MTSI MGWs, negotiated GBR and AS bandwidths, additional SDP examples for SDP answers and initial codec mode are corrected.
ARIB STD-T63-26.132	7.2.0	7.1.0	S4	Speech and video telephony terminal acoustic test specification	Correction to allow wideband testing for GSM terminals is carried out.
ARIB STD-T63-27.007	7.5.0	7.4.0	C1	AT command set for 3G User Equipment (UE)	Restoring default value for TE character set Introduction of RAC to CGREG
ARIB STD-T63-31.124	7.6.0	7.5.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Essential correction of TC 27.22.6.5 seq. 5.1 applicability - Essential correction of bearer parameters in browser tests - Pre-conditions for Launch browser - Essential correction of 27.22.4.26.2 Seq. 2.2
ARIB STD-T63-34.123-3	7.3.0	7.2.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSs)	- Addition of Rel7 CPC RRC test cases - Addition of LCR TDD test cases - Corrections to existence test cases
ARIB STD-T63-34.229-3	7.2.0	7.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	- Update of TS 34.229-3 from Rel-6 to Rel-7(RP-080740) - Correction of HW Type and HW Length fields in DHCP response messages (RP-080959) - Minor correction of Route header template in the initial

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Register message (RP-080959)

6. Release 8

6.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.001	8.0.0		S1	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	Upgraded unchanged from Rel-7
ARIB STD-T63-22.002	8.0.0		S1	Circuit Bearer Services supported by a PLMN	Upgraded unchanged from Rel-7
ARIB STD-T63-22.016	8.0.0		S1	International Mobile Equipment Identities (IMEI)	Upgraded unchanged from Rel-7
ARIB STD-T63-22.022	8.0.0		S3	Personalization of Mobile Equipment (ME) Mobile Functionality	Upgraded unchanged from Rel-7
ARIB STD-T63-22.031	8.0.0		S3	Fraud Information Gathering System (FIGS); Service description; Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.032	8.0.0		S3	Immediate Service Terminal (IST); Service descrption - Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.034	8.0.0		S1	High Speed Circuit Switched Data (HSCSD) ; Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.053	8.0.0		S4	Tandem Free Operation(TFO); Service Description; Stage1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.057	8.0.0		S1	Mobile Execution Environment (MExE); Service description; Stage 11	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.076	8.0.0		S4	Noise Suppression for the AMR Codec; Service description; Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.112	8.0.0		C6	USIM toolkit interpreter; Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.140	8.0.0		S1	Multimedia Messaging Service(MMS); Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.141	8.0.0		S1	Presence Service; Stage1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.174	8.0.0		S1	Push service; Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.242	8.0.0		S1	Digital Rights Management (DRM); Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-23.035	8.0.0		S3	Immediate Service Terminal (IST); Stage 2	Upgraded unchanged from Rel-7
ARIB STD-T63-23.042	8.0.0		C1	Compression algorithm for SMS	Upgraded unchanged from Rel-7
ARIB STD-T63-23.053	8.0.0		S4	Tandem Free Operation(TFO); Service description;Stage2	Upgraded unchanged from Rel-7
ARIB STD-T63-23.057	8.0.0		S2	Mobile Execution Environment (MExE) Functional description;Stage2	Upgraded unchanged from Rel-7
ARIB STD-T63-23.107	8.0.0		S2	Quality of Service (QoS) Concept and Architecture	Upgraded unchanged from Rel-7
ARIB STD-T63-23.207	8.0.0		S2	End-to-End quality of service (Qos) Concept and Architecture	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-23.236	8.0.0		S2	Intra-domain connection of Radio Access Network(RAN) nodes to multiple Core Network (CN) nodes	Upgraded unchanged from Rel-7
ARIB STD-T63-25.111	8.0.0		R4	Location Measurement Unit (LMU) performance specification; User Equipment (UE) positioning in UTRAN	Upgraded unchanged from Rel-7
ARIB STD-T63-25.144	8.0.0		R4	User Equipment (UE) and Mobile Station (MS) over the air performance requirements	Upgraded unchanged from Rel-7
ARIB STD-T63-25.171	8.0.0		R4	Requirements for support of Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	Upgraded unchanged from Rel-7
ARIB STD-T63-25.367	8.0.0		R2	Mobility procedures for Home Node B (HNB); Overall description; Stage 2	v1.0.0 was approved at RAN #42 as v8.0.0
ARIB STD-T63-25.402	8.0.0		R3	Synchronisation in UTRAN Stage 2	Support for 3.84 Mcps MBSFN IMB operation
ARIB STD-T63-25.420	8.0.0		R3	UTRAN Iur Interface: General Aspects and Principles	Enable to dynamically control the MBMS services in MBSFN
ARIB STD-T63-25.421	8.0.0		R3	UTRAN Iur interface Layer 1	Upgraded unchanged from Rel-7
ARIB STD-T63-25.422	8.0.0		R3	UTRAN Iur interface signalling transport	Upgraded unchanged from Rel-7
ARIB STD-T63-25.424	8.0.0		R3	UTRAN Iur interface data transport & transport signalling for Common Transport Channel data streams	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.426	8.0.0		R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Upgraded unchanged from Rel-7
ARIB STD-T63-25.430	8.0.0		R3	UTRAN Iub Interface: General Aspects and Principles	Upgraded unchanged from Rel-7
ARIB STD-T63-25.431	8.0.0		R3	UTRAN Iub interface Layer 1	Upgraded unchanged from Rel-7
ARIB STD-T63-25.432	8.0.0		R3	UTRAN Iub interface signalling transport	Upgraded unchanged from Rel-7
ARIB STD-T63-25.434	8.0.0		R3	UTRAN Iub interface data transport & transport signalling for Common Transport Channel data streams	Upgraded unchanged from Rel-7
ARIB STD-T63-25.442	8.0.0		R3	UTRAN Implementation Specific O&M Transport	Upgraded unchanged from Rel-7
ARIB STD-T63-25.446	8.0.0		R3	MBMS synchronisation protoco l(SYNC)	The present document specifies the MBMS Synchronisation Protocol. For the release of this specification it is used on Iu towards UTRAN.
ARIB STD-T63-25.450	8.0.0		R3	UTRAN Iupc interface general aspects and principles	Upgraded unchanged from Rel-7
ARIB STD-T63-25.451	8.0.0		R3	UTRAN Iupc interface layer1	Upgraded unchanged from Rel-7
ARIB STD-T63-25.452	8.0.0		R3	UTRAN Iupc interface signalling transport	Upgraded unchanged from Rel-7
ARIB STD-T63-25.453	8.0.0		R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.467	8.0.0		R3	UTRAN architecture for 3G Home NodeB; Stage 2	The present document specifies the UTRAN architecture for 3G Home NodeB (HNB). It covers specification of the functions for UEs not supporting Closed Subscriber Groups (CSG) (i.e.pre-Rel-8 UEs) and UEs supporting CSGs. It also covers HNB specific requirements for O&M.
ARIB STD-T63-25.468	8.0.0		R3	UTRAN Iuh Interface RANAP User Adaption (RUA) signalling	The present document specifies the *RANAP User Adaption* (RUA) between the Home Node B (HNB) and the Home Node B Gateway (HNB-GW). It fulfils the HNB- HNB-GW communication requirements specified in 25.467 and is defined over the Iuh – reference point. It provides transparent transport for RANAP messages.
ARIB STD-T63-25.469	8.0.0		R3	UTRAN Iuh interface Home Node B (HNB) Application Part (HNBAP) signalling	The present document specifies the *Home Node B Application Part (HNBAP)* between the Home Node B (HNB) and the Home Node B Gateway (HNB-GW). It fulfils the HNB- HNB-GW communication requirements specified in 25.467 and is defined over the Iuh – reference point. It provides control and management procedures between HNB and HNB-GW.
ARIB STD-T63-26.071	8.0.0		S4	AMR speech Codec; General description	Upgraded unchanged from Rel-7
ARIB STD-T63-26.073	8.0.0		S4	AMR speech Codec; C-source code	Upgraded unchanged from Rel-7
ARIB STD-T63-26.074	8.0.0		S4	AMR speech Codec; Test sequences	Upgraded unchanged from Rel-7
ARIB STD-T63-26.077	8.0.0		S4	Minimum Performance Requirements for Noise Suppresser Application to the AMR Speech Encoder	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.090	8.0.0		S4	AMR speech Codec; Transcoding Functions	Upgraded unchanged from Rel-7
ARIB STD-T63-26.091	8.0.0		S4	AMR speech Codec; Error concealment of lost frames	Upgraded unchanged from Rel-7
ARIB STD-T63-26.092	8.0.0		S4	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	Upgraded unchanged from Rel-7
ARIB STD-T63-26.093	8.0.0		S4	Mandatory speech codec speech processing functions;AMR speech Codec; Source Controlled Rate operation	Upgraded unchanged from Rel-7
ARIB STD-T63-26.094	8.0.0		S4	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Voice Activity Detector (VAD)	Upgraded unchanged from Rel-7
ARIB STD-T63-26.101	8.0.0		S4	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec frame structure	Upgraded unchanged from Rel-7
ARIB STD-T63-26.104	8.0.0		S4	ANSI-C code for the floating-point AMR speech codec	Upgraded unchanged from Rel-7
ARIB STD-T63-26.110	8.0.0		S4	Codec for Circuit switched Multimedia Telephony Service; General Description	Upgraded unchanged from Rel-7
ARIB STD-T63-26.111	8.0.0		S4	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	Upgraded unchanged from Rel-7
ARIB STD-T63-26.115	8.0.0		S4	Echo Control for Speech and Multi-media Services	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.131	8.0.0		S4	Terminal acoustic characteristics for telephony; Requirements	Receiving characteristics harmonization and updated requirements and performance objectives for wideband terminal acoustics are added.
ARIB STD-T63-26.132	8.0.0		S4	Speech and video telephony terminal acoustic test specification	Test methods for wideband terminal acoustics are added.
ARIB STD-T63-26.140	8.0.0		S4	Multimedia Messaging Service (MMS); Media formats and codes	Upgraded unchanged from Rel-7
ARIB STD-T63-26.141	8.0.0		S4	IP Multimedia System (IMS) Messaging and Presence; Media formats and codecs	Upgraded unchanged from Rel-7
ARIB STD-T63-26.142	8.0.0		S4	Dynamic and Interactive Multimedia Scenes (DIMS)	Upgraded unchanged from Rel-7
ARIB STD-T63-26.171	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; General description	Upgraded unchanged from Rel-7
ARIB STD-T63-26.173	8.0.0		S4	ANSI-C code for the Adaptive Multi-Rate - Wideband (AMR-WB) speech codec	Upgraded unchanged from Rel-7
ARIB STD-T63-26.174	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec test sequences	Upgraded unchanged from Rel-7
ARIB STD-T63-26.177	8.0.0		S4	Speech Enabled Services (SES); Distributed Speech Recognition (DSR) extended advanced front-end test sequences	Upgraded unchanged from Rel-7
ARIB STD-T63-26.190	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB)	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
				speech codec; Transcoding functions	
ARIB STD-T63-26.191	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Error concealment of erroneous or lost frames	Upgraded unchanged from Rel-7
ARIB STD-T63-26.192	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Comfort noise aspects	Upgraded unchanged from Rel-7
ARIB STD-T63-26.193	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Source controlled rate operation	Upgraded unchanged from Rel-7
ARIB STD-T63-26.194	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Voice Activity Detector (VAD)	Upgraded unchanged from Rel-7
ARIB STD-T63-26.201	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Frame structure	Upgraded unchanged from Rel-7
ARIB STD-T63-26.204	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; ANSI-C code	Upgraded unchanged from Rel-7
ARIB STD-T63-26.230	8.0.0		S4	Cellular Text Telephone Moden transmitter Bit Exact C-code	Upgraded unchanged from Rel-7
ARIB STD-T63-26.231	8.0.0		S4	Cellular Text telephone Modem; Minimum performance requirements	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.233	8.0.0		S4	End-to-end transparent streaming service; General description	Upgraded unchanged from Rel-7
ARIB STD-T63-26.235	8.0.0		S4	Packet switched conversational multimedia application; Default codecs	Upgraded unchanged from Rel-7
ARIB STD-T63-26.236	8.0.0		S4	Packet switched conversational multimedia applications; Transport protocols	Upgraded unchanged from Rel-7
ARIB STD-T63-26.237	8.0.0		S4	IMS based PSS and MBMS User Service; Protocols	Upgraded unchanged from Rel-7
ARIB STD-T63-26.243	8.0.0		S4	ANSI C code for the fixed-point distributed speech recognition extended advanced front-end	Upgraded unchanged from Rel-7
ARIB STD-T63-26.244	8.0.0		S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	Addition of file delivery support and addition of recording of media Stream Data are carried out.
ARIB STD-T63-26.245	8.0.0		S4	Transparent end-to-end Packet witched Streaming Service (PSS); Timed text format	Upgraded unchanged from Rel-7
ARIB STD-T63-26.246	8.0.0		S4	Transparent end-to-end Packet-switched Streaming Service (PSS); 3GPP SMIL language profile	Upgraded unchanged from Rel-7
ARIB STD-T63-26.273	8.0.0		S4	ANSI-C code for the fixed-point Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec	Upgraded unchanged from Rel-7
ARIB STD-T63-26.274	8.0.0		S4	Speech codec speech processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec; Conformance	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
				testing	
ARIB STD-T63-26.290	8.0.0		S4	Audio codec processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Transcoding functions	Upgraded unchanged from Rel-7
ARIB STD-T63-26.304	8.0.0		S4	Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Floating-point ANSI-C code	Upgraded unchanged from Rel-7
ARIB STD-T63-26.401	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; General description	Upgraded unchanged from Rel-7
ARIB STD-T63-26.402	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Additional decoder tools	Upgraded unchanged from Rel-7
ARIB STD-T63-26.403	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Advanced Audio Coding (AAC) part	Upgraded unchanged from Rel-7
ARIB STD-T63-26.404	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Spectral Band Replication (SBR) part	Upgraded unchanged from Rel-7
ARIB STD-T63-26.405	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Parametric stereo part	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.406	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Conformance testing	Upgraded unchanged from Rel-7
ARIB STD-T63-26.410	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Upgraded unchanged from Rel-7
ARIB STD-T63-26.411	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	Upgraded unchanged from Rel-7
ARIB STD-T63-26.412	8.0.0		S4	General audio codec audio processing functions; Source code for 3GP file format	Upgraded unchanged from Rel-7
ARIB STD-T63-27.010	8.0.0		C3	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	Upgraded unchanged from Rel-7
ARIB STD-T63-28.062	8.0.0		S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	Upgraded unchanged from Rel-7
ARIB STD-T63-31.101	8.0.0		C6	Characteristics of the ISIM Application	Upgraded unchanged from Rel-7
ARIB STD-T63-31.112	8.0.0		C6	USAT Interpreter Architecture Description; Stage 2	Upgraded unchanged from Rel-7
ARIB STD-T63-31.113	8.0.0		C6	USAT interpreter byte codes	Upgraded unchanged from Rel-7
ARIB STD-T63-31.114	8.0.0		C6	USAT interpreter protocol and administration	Upgraded unchanged from Rel-7
ARIB STD-T63-31.115	8.0.0		C6	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit	• Introduction of AES and deprecation of DES

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
				applications	
ARIB STD-T63-31.116	8.0.0		C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	• Introduction of AES and automatic detection of application data format
ARIB STD-T63-31.120	8.0.0		C6	UICC-terminal interface; Physical, electrical and logical test specification	Upgraded unchanged from Rel-7
ARIB STD-T63-31.124	8.0.0		C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	Upgraded unchanged from Rel-7
ARIB STD-T63-31.130	8.0.0		C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	- Introduction of a geographical location discovery Java Card™ API
ARIB STD-T63-31.133	8.0.0		C6	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	Upgraded unchanged from Rel-7
ARIB STD-T63-33.105	8.0.0		S3	Cryptographic algorithm requirements	Upgraded unchanged from Rel-7
ARIB STD-T63-33.110	8.0.0		S3	Key establishment between a UICC and a terminal	Removing editor's note on IANA registration
ARIB STD-T63-33.204	8.0.0		S3	3G Security; Network Domain Security (NDS); Transaction Capabilities Application Part (TCAP) user security	Upgraded unchanged from Rel-7
ARIB STD-T63-33.221	8.0.0		S3	Generic Authentication Architecture (GAA); Support for subscriber certificates	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.109	8.0.0		R2	Terminal logical test interface; Special conformance testing functions	Upgraded unchanged from Rel-7
ARIB STD-T63-34.114	8.0.0		R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	Upgraded unchanged from Rel-7 - This document describes test procedure for the radiated performances measurements of the 3G/2G user equipment/mobile stations (UE/MS) in active mode in both the up- and the downlink. The test procedure is based on 3GPP TR 25.914.
ARIB STD-T63-34.123-3	8.0.0		R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSs)	Update without changes to Rel-8 - This document specifies the protocol conformance testing in TTCN for the 3GPP User Equipment (UE) at the Uu interface.
ARIB STD-T63-34.171	8.0.0		R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	Upgraded unchanged from Rel-7 - This document specifies the measurement procedures for the conformance test of the minimum performance requirements for FDD mode of UTRA user equipment (UE) that supports Assisted Global Positioning System (A-GPS).
ARIB STD-T63-34.229-1	8.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	Updated to 8.0.0 without change. - This document specifies the protocol conformance testing for the User Equipment (UE) supporting the Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP).
ARIB STD-T63-34.229-2	8.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	- This document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation User Equipment (UE) supporting the Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP).

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.229-3	8.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	Upgraded unchanged from Rel-7 - This document specifies the protocol conformance testing in TTCN for the 3GPP User Equipment (UE) at the Gm interface.
ARIB STD-T63-35.201	8.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	Upgraded unchanged from Rel-7
ARIB STD-T63-35.202	8.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi specification	Upgraded unchanged from Rel-7
ARIB STD-T63-35.203	8.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data	Upgraded unchanged from Rel-7
ARIB STD-T63-35.204	8.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	Upgraded unchanged from Rel-7
ARIB STD-T63-35.205	8.0.0		S3	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 1: General	Upgraded unchanged from Rel-7
ARIB STD-T63-35.206	8.0.0		S3	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 2: Algorithm specification	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-35.207	8.0.0		S3	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 3: Implementors' test data	Upgraded unchanged from Rel-7
ARIB STD-T63-35.208	8.0.0		S3	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 4: Design conformance test data	Upgraded unchanged from Rel-7
ARIB STD-T63-35.215	8.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 1: UEA2 and UIA2 specifications	Upgraded unchanged from Rel-7
ARIB STD-T63-35.216	8.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 2: SNOW 3G specification	Upgraded unchanged from Rel-7
ARIB STD-T63-35.217	8.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 3: Implementors' test data	Upgraded unchanged from Rel-7
ARIB STD-T63-35.218	8.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 4: Design conformance test data	Upgraded unchanged from Rel-7
ARIB STD-T63-36.101	8.4.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	The present document establishes the minimum RF characteristics for E-UTRA User Equipment (UE).
ARIB STD-T63-36.104	8.4.0		R4	Evolved Universal Terrestrial Radio Access	This document establishes the Base Station minimum RF

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
				(E-UTRA); Base Station (BS) radio transmission and reception	characteristics of E-UTRA.
ARIB STD-T63-36.113	8.1.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) and repeater ElectroMagnetic Compatibility (EMC)	The present document covers the assessment of base stations and associated ancillary equipment in respect of Electromagnetic Compatibility (EMC).
ARIB STD-T63-36.124	8.0.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment	The present document covers the assessment of mobile terminals and associated ancillary equipment in respect of Electromagnetic Compatibility (EMC).
ARIB STD-T63-36.133	8.4.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	The present document specifies requirements for support of Radio Resource Management for E-UTRA.
ARIB STD-T63-36.141	8.1.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	The present document specifies the Radio Frequency (RF) test methods and conformance requirements for Base Stations (BS) for E-UTRA.
ARIB STD-T63-36.314	8.0.0		R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Layer 2 - Measurements	v1.0.0 was approved as v8.0.0 and keywords added, white space trimmed, file properties set
ARIB STD-T63-36.508	8.0.1		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	- This document contains definitions of reference conditions and test signals, default parameters, reference radio bearer configurations used in radio bearer interoperability testing, common radio bearer configurations for other test purposes, common requirements for test equipment and generic set-up procedures for use in conformance tests for the 3rd Generation E-UTRAN User Equipment (UE).
ARIB STD-T63-36.509	8.0.1		R5	Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing	- This document defines for User Equipment (UE) in E-UTRA FDD or TDD mode those special functions and their

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
				function for User Equipment (UE)	activation methods that are required in User Equipment (UE) for conformance testing purposes.
ARIB STD-T63-36.521-1	8.0.1		R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: conformance testing	- This document specifies the measurement procedures for the conformance test of the user equipment (UE) that contain transmitting characteristics, receiving characteristics and performance requirements as part of the 3G Long Term Evolution (3G LTE).
ARIB STD-T63-36.521-2	8.0.1		R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	- This document provides the Implementation Conformance Statement (ICS) proforma for 3G Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE).
ARIB STD-T63-36.523-1	8.0.1		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	- This document specifies the protocol conformance testing for the 3rd Generation E-UTRAN User Equipment (UE).
ARIB STD-T63-36.523-2	8.0.1		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 2: ICS	- This document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation User Equipment (UE).

6. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-22.071	8.1.0	8.0.0	S1	Location Services (LCS); Service description, Stage 1	Support for Additional Navigation Satellite Systems (ANSS) for LCS
ARIB STD-T63-22.101	8.10.0	8.9.0	S1	Service aspects; Service principles	ICS Service Continuity
ARIB STD-T63-22.182	8.4.0	8.3.0	S1	Customized Alerting Tones (CAT) Requirements; Stage 1	Removal of DRM note from CAT Alignment of Stage 1 IMS CAT with Stage 3
ARIB STD-T63-22.228	8.6.0	8.5.0	S1	Service requirements for the IP Multimedia Core Network Subsystem (IMS); Stage1	Requirements for capability enabling early media IMS Credentials requirements Correction of wrong reference
ARIB STD-T63-22.278	8.7.0	8.6.1	S1	Service requirements for the Evolved Packet System (EPS)	Deletion of redundant reference
ARIB STD-T63-23.041	8.1.0	8.0.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Clarification on EPS architecture and ETWS Instruction to terminal Addition of Warning Security Information CBS Message ID table
ARIB STD-T63-23.203	8.4.0	8.3.1	S2	Policy and charging control architecture	1. It is clarified that the AF (i.e. the P-CSCF) can instruct the PCRF to act on the currently available service information. To enable the PCC functionality to deal with incomplete service information the following enhancement is added for the UE mode: The binding mechanism section is enhanced by describing the PCRF behaviour when it is not possible to associate a PCC rule with a single IP-CAN bearer. 2. A new procedure is added to the Gateway Control and QoS Rules Request section that shows how the event

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					reports are forwarded from the V-PCRF to the PCEF. 3. The description of the binding mechanism is updated by moving the evaluation of the UE provided traffic mapping information to the PCC rule authorization step. Furthermore, some other aspects are improved: - a definition for operator-controlled service is added; - other descriptions could be simplified due to the movement of the traffic mapping evaluation description; - the QoS rule generation is described as part of the authorization step; - an informative Annex is added to explain how the responsibility for the resource management for a service is taken into account by PCC. 4. Clarify the QoS control procedures at the BBERF. 5. Three Editor's Notes in clause 7.6.1 on principles for PCRF selection and discovery are removed. 6. The session linking amended to link Gx session with Gateway Control session. The function of "Gx and Gateway Control session linking" is also included amongst the functions that the V-PCRF can provide. 7. We correct the principle so that when S2c is deployed in the network, all PCRFs should serve all the PDNs for which PCC is enabled. 8. (1) Specified that during HO that results in BBERF relocation, if the BBERF supports NW/UE bearer establishment mode the BBERF is responsible to setup bearers corresponding to all the QoS rules provided by the PCRF during GW control session establishment. Note that

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					CR0116 approved (but unfortunately not implemented) in SA2#66 already states that all active QoS rules are provided to the target BBERF during HO. This is being clarified in in S2-086558 to state that QoS rules are only provided in case the BBF support NW/UE-init mode (Section 7.7.1.2) (2) In case of HO from PMIP to GTP and NW/UE bearer establishment mode is supported, the PCEF is responsible to setup bearers corresponding to pre-exising QoS rules in the target access. (Section 7.4.1) 9. Step 3 of clause 7.4.1 is split into two steps to clear ambiguity. The text and the Figure 7.4.1-1 are adjusted accordingly. "Case 1" (i.e. S5/S8 GTP) was deleted in Step 3 and 13. 10. The Gateway Control Session Establishemnt is applicable for case 2a initial attach and case 2b. 11. Clarify that PCRF shall set the traffic mapping event trigger when GPRS is used. 12. (1) Added new Section 6.2.1.x under PCRF to cover the principle on how PCRF handles multiple BBERF sessions. (2) Updated IP-Can session modification (7.4.1 and 7.4.2) to state that PCRF does QoS rules provision with multiple BBERFs, if applicable (3) Updated GW control Session establishment (7.7.1) to state that QoS rules corresponding to all active PCC rules are pushed to BBERF supporting NW/UE bearer establishment mode during GW Control session

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					establishment. (4) Updated QoS rules request by BBERF (7.7.3) to cover for the case that the request is from a non-primary BBERF. (5) Updated Qos rules provision (7.7.4) to indicate how the PCRF handles the response based on primary/non-primary BBERF. 13. It is clarified that the ARP contains information about the priority level, the pre-emption capability and the pre-emption vulnerability. A general description of the ARP is added and the PCC rule information is updated accordingly. Aspects of an EPC using a Gn/Gp connection towards a pre-Rel-8 SGSN are clarified. 14. Even triggers for UE requested bearer resource modification and deferred IPv4 address allocation are added. 15. The following modification are performed in Annex A.4 and A.5: - Event reporting function includes a new event trigger to report change of the QoS of the default EPS bearer. - Policy Control function allows modification of the default EPS bearer QoS. - PCRF provides authorized default EPS bearer QoS. - PCEF/BBERF modifies the default EPS bearer QoS as requested via Gx/Gxx interfaces. - Current procedures for IP-CAN sesssion establishment and modification includes the provisioning of the Authorized Default EPS Bearer QoS from PCRF into PCEF. - Current procedures for Gateway Control sesssion

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					establishment, QoS Rule request and QoS Rule provisioning includes the provisioning of the Authorized Default EPS Bearer QoS from PCRF into BBERF. The main body in the TS states that reporting of QoS change for an IP-CAN bearer is performed when the Bearer Binding is performed by the PCRF. 16. Removing requirements on messages. 17. The charging information shall be reported separately per QCI and ARP combination used by any of the active PCC rules. 18. Event triggers are associated with all rules at the ERF of an IP-CAN session (ERF is located at PCEF) or Gateway Control session (ERF is located at BBERF). 19. Clarified that APN-AMBR and Default Bearer QoS can be provided as part of the IP-CAN session establishment procedure and GW Control session establishment procedure. Editorial cleanup in Annex A.4.4.2 20. The following modifications are proposed: Clause 6.2.2.4 and 6.4 defines that the Authorized MBR per QCI is sent by the PCRF when the IP-CAN supports non-GBR bearers with a separate MBR. 21. The PCRF detects and solves the race conditions based on filter comparison, and the fully filter matching and partly matching filter are discussed. 22. The service data flow filter concept is extended to include the encoding possibilities defined for the TFT

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					packet filters. 23. (1) The information about the packet data network (PDN) the user is accessing, if present. (2) “NOTE 2: Only a 1:1 mapping between the Rx session and IP-CAN session is supported in this Release.”
ARIB STD-T63-23.228	8.7.0	8.6.0	S2	IP Multimedia Subsystem(IMS); Stage 2	1. It is explicitly stated that P-CSCF may send session information to PCRF based on SDP offer in case the resources are available on the originating side. 2. Clarifies that the the same instance ID shall be used for a UE during registration irrespectively of access or function registering on behalf of the UE. 3. Added MRB functional entity description and interfaces. Added the Cr reference point (AS-MRFC). Added references to 23.218 stage 2 specifications. 4. Additional document references, inclusion of general reference section for transcoding functionality implementation options. 5. Correct the reference to 3GPP terminology, and tidy-up/update the References, Definitions and Abbreviations sections to the style/base-text from the current TS template. 6. Define *ONCE* the ENUM/DNS mechanism to be used, and refer to it from relevant parts of the specification. Also, define *ONCE* the procedures for handling Tel URIs and SIP URIs representing E.164 addresses. Other minor text enhancements and corrections are also made. 7. The CR adds IMC related changes to 23.228.

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					8. It is clarified that the P-CSCF list, when provisioned in the UE, can either reside in IMS MO (on the ME) or in the ISIM (on the UICC) It is clarified that, for GPRS, the P-CSCF list may be also obtained from the UE (either from IMS MO or from the ISIM) 9. References are corrected for the following internet drafts draft-ieft-mmusic-ice, draft-ietf-behave-turn, draft-ietf-behave-rfc3489bis, draft-ietf-sip-outbound 10. The GPRS annex is modified to cover a UE accessing IMS using GERAN/UTRAN access, whereas the CN may use either GPRS or EPS beyond the SGSN and also to cover E-UTRAN access with EPC. PDP type IPv4v6 is added. Corercted to reflect IM CN Subsystem throughout the section 11. Added the capability to support mapping of overlap signalling to en block signalling. Added also an informative note to explains the rationale for the support of this functionality
ARIB STD-T63-25.101	8.5.1	8.4.0	R4	UE Radio transmission and reception (FDD)	With corresponding changes in V7.14.0, the introductions of DC-HSDPA requirements and E-AI requirements are made.
ARIB STD-T63-25.104	8.5.0	8.4.1	R4	Base Station (BS) radio transmission and reception (FDD)	With corresponding changes in V7.11.0, the introduction of DC-HSDPA requirements, the additions of adjacent channel protection requirement and regional requirement for Home Node B are made.

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ARIB STD-T63-25.133	8.5.0	8.4.0	R4	Requirements for support of radio resource management (FDD)	Introduction of UE Measurement Capability for frequency adjacent to intra-frequency, Introduction of the Enhanced Uplink for CELL_FACH state, Addition of UE delay requirements in switching to target cell on receiving HS-SCCH order, Clarification of the handover from UTRA to E-UTRA and Correction of E-UTRA measurement requirements are made.
ARIB STD-T63-25.141	8.5.0	8.4.0	R4	Base Station (BS) conformance testing (FDD)	With corresponding changes in V7.12.0, the introductions of DC-HSDPA requirements and Home Node B requirements are made.
ARIB STD-T63-25.211	8.3.0	8.2.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Introduce Dual-Cell HSDPA Operation on Adjacent Carriers (5.3.1, 7.1). Remove a reference to E-AICH (5.3.3.7).
ARIB STD-T63-25.212	8.4.0	8.3.0	R1	Multiplexing and channel coding (FDD)	Introduce Dual-Cell HSDPA Operation on Adjacent Carriers (4.6C.2, 4.7.1, 4.7.2, 4.7.3A). Introduce UE reception of HS-SCCH orders from one non-serving cell (4.6C.2.2.1).
ARIB STD-T63-25.213	8.3.0	8.2.0	R1	Spreading and modulation (FDD)	Clarify scrambling codes in Dual-Cell HSDPA Operation (5.2.2).
ARIB STD-T63-25.214	8.4.0	8.3.0	R1	Physical layer procedures (FDD)	Introduce Dual-Cell HSDPA Operation on Adjacent Carriers (4.2.4, 5.1.2.2.1, 5.1.2.3, 5.1.2.5A, 6A.1, 6A.1.1, 6A.1.2.1, 6A.2.1, 6A.2.3). Introduce UE reception of HS-SCCH orders from one non-serving cell (6A.1.1). Clarify F-DPCH TPC Combining Rule of cells in the same Radio Link Set (B.1). Correct a parameter name in the CPC procedures (6C). Clarify CQI repetition in case of UE DTX (6C.1). Clarify E-DPDCH scaling (5.1.2.6). Correct E-DPDCH gain factor calculation (5.1.2.5B.2). Introduce a minimum reduced E-DPDCH gain factor (5.1.2.6). Correct E-DPDCH gain factor interpolation in compressed mode (5.1.2.5B.2.4). Correct the physical random access

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					procedure for Enhanced Uplink in CELL_FACH State and Idle mode (6.1A). Correct HS-DPCCH transmission for Enhanced uplink in CELL_FACH stat (6A.1.1A). Clarify the number of soft channel bits available in the virtual IR buffer (6A.2.1, 6A2.2).
ARIB STD-T63-25.301	8.4.0	8.3.0	R2	Radio Interface Protocol Architecture	Introduction of enhanced CELL_FACH, CELL_PCH and URA_PCH for 1.28Mcps TDD Introduction of MBMS Improved Solution
ARIB STD-T63-25.302	8.2.0	8.1.0	R2	Services provided by the physical layer	Replacement of E-AICH in 25.302 Introduction of enhanced CELL_FACH, CELL_PCH and URA_PCH for 1.28Mcps TDD
ARIB STD-T63-25.304	8.4.0	8.3.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Prevention of excessive OOS due to failure of Squal criterion Introduction of Cell_FACH enhancement operation for LCR TDD Correction to absolute priority reselection procedure Introductionof the UE behavior on PPAC parameter Support for 3.84 Mcps MBSFN IMB operation
ARIB STD-T63-25.305	8.1.0	8.0.0	R2	User Equipment (UE) positioning in Universal Terrestrial Radio Access Network (UTRAN); Stage 2	Support for additional navigation satellite systems in UTRAN
ARIB STD-T63-25.306	8.5.0	8.4.0	R2	UE Radio Access capabilities	Introduction of additional UE categories for 1.28Mcps TDD 64QAM DL Introduction of support of “Enhanced Uplink for CELL_FACH State in FDD” and “Improved L2 for uplink” Addition of UE categories for dual cell HSDPA UE positioning capabilities for support of additional navigation satellite systems 25.306 CR Introduction of UE Measurement Capability on frequency adjacent to intra-frequency Introduction of optional features in Release 8

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					Support for 3.84 Mcps MBSFN IMB operation
ARIB STD-T63-25.308	8.4.0	8.3.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Removal of FFSs and correction to the messages used for UE capability signalling Corrections to Dual Cell operation Introduction the CPC for 1.28Mcps TDD Addition of HS-DPCCH feedback in CELL_FACH state Stage 2 updates for Enhanced CELL_FACH state in 1.28Mcps TDD CR to 25.308 on Introduction of HS-DSCH cell change enhancements
ARIB STD-T63-25.319	8.4.0	8.3.0	R2	Enhanced uplink; Overall description; Stage 2	Clarification of common E-DCH resource usage in 25.319 Update of stage 2 description for Enhanced Uplink for CELL_FACH State and Idle mode in FDD Remove FFS from the figure for MAC-e details Introduction of CPC for 1.28Mcps TDD Stage 2 updates for Enhanced UL in CELL_FACH and Idle mode
ARIB STD-T63-25.321	8.4.0	8.3.0	R2	MAC protocol specification	Removal of the reference to E-TFCI threshold Resource release after collision resolution failure Happy Bit Setting with Improved L2 for UL Add MAC-i PDU in the description of HARQ entity Replacement of E-AICH in 25.321 Correcting E-TFC minimum set behaviour when DCH is configured Introduction of additional UE categories for 1.28Mcps TDD 64QAM DL

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					Clarification of E-RUCCH transmission in 25.321 Correction to the segmentation status field HARQ feedback with Enhanced Uplink in Cell_FACH state Clarification of common E-DCH resource usage in 25.321 UE restrictions on E-TFCIs Setting of NDI after MIMO to non-MIMO configuration Introduction of Dual Cell HSDPA operation CRC attachment point for MAC-is when transmitting MAC-c PDU Introduction of the Enhanced CELL_FACH, CELL_PCH, URA_PCH state for 1.28 Mcps TDD Clarification on SI transmission for CCCH in CELL_FACH state and idle mode Correction to E-TFC selection in CELL_FACH Extension of some procedures to MAC-i/is Clarification of RX-TIMER reset in 25.321 for 1.28Mcps TDD Removal of sentence on RRC provisioning of configuration parameters to the UE for MAC-hs on UTRAN side. Removal of sentence on RRC provisioning of configuration parameters to the UE for MAC-ehs on UTRAN side Modification of E-RUCCH uplink sync transmission for 1.28Mcps TDD
ARIB STD-T63-25.401	8.2.0	8.1.0	R3	UTRAN Overall Description	Enable to dynamically control the MBMS services in MBSFN Introduction of the Enhanced CELL_FACH, CELL_PCH,

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					URA_PCH state for 1.28Mcps TDD Introduction of Enhanced Relocation
ARIB STD-T63-25.423	8.3.0	8.2.0	R3	UTRAN Iur interface RNSAP signalling	Support for additional navigation satellite systems in RNSAP Enable to dynamically control the MBMS services in MBSFN Correction on the range of E-DCH MAC-d Flow Specific Information Indication of E-DPCCH Power Boosting capability Indication of Combination of 64QAM and MIMO Introduction of the Enhanced CELL_FACH, CELL_PCH, URA_PCH state for 1.28Mcps TDD Introduction of MBMS Improved Solution Correction on procedural text for Enhanced Uplink in Cell_FACH Inter-RAT Mobility to/from E-UTRAN Cause values for Enhanced Relocation Correction on Usage for Transport Bearer Not Requested Indicator Fixing Typo in 5.1 RNSAP Procedure Modules Introduction of HS-DSCH Serving Cell Change Enhancements Introduction of Dual Carrier Correction of tabular format for IE Priority Queue Information for Enhanced FACH/PCH Improved EUL power control at UE power limitation Correction of power control gap for 1.28Mcps TDD
ARIB STD-T63-25.425	8.1.0	8.0.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Introduction of the Enhanced CELL_FACH, CELL_PCH, URA_PCH state for 1.28Mcps TDD Correction of CR127, adding codepoints for the new control frames Corrections to IE definitions for E-DCH DATA FRAME

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					and "Definitions" chapter
ARIB STD-T63-25.427	8.1.0	8.0.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Corrections to IE definitions for UL DATA FRAME FOR E-DCH TYPE 2 Improved EUL power control at UE power limitation freeze SIR target
ARIB STD-T63-25.433	8.3.0	8.2.0	R3	UTRAN Iub interface NBAP signalling	Inter-RAT Mobility to/from E-UTRAN New NBAP Measurement on Common E-DCH Resource Usage Support for additional navigation satellite systems in NBAP Indication of E-DPCCH Power Boosting capability Indication of Combination of 64QAM and MIMO Some corrections for common E-DCH Adding Common E-DCH implicit release indicator IE into NBAP message Introduction of the Enhanced CELL_FACH, CELL_PCH, URA_PCH state for 1.28Mcps TDD Correction of power control gap for 1.28Mcps TDD E-RNTI in RL Setup Request Correction on Usage for Transport Bearer Not Requested Indicator Introduction of HS-DSCH Serving Cell Change Enhancements Introduction of Dual Carrier Improved EUL power control at UE power limitation Support of IMB
ARIB STD-T63-25.435	8.1.0	8.0.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Improve the data rate for Enhanced Cell_FACH state in FDD Introduction of the Enhanced CELL_FACH, CELL_PCH, URA_PCH state for 1.28Mcps TDD Corrections to IE definitions for E-DCH DATA FRAME and Common MAC flow

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					Correction of CR182, allow node sync also for enhanced L2
ARIB STD-T63-26.102	8.1.0	8.0.0	S4	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to Iu, Uu and Nb	Corrections to CS over IP User Plane is carried out.
ARIB STD-T63-26.103	8.1.0	8.0.0	S4	Speech codec list for GSM and UMTS	Corrections to CS over IP User Plane is carried out.
ARIB STD-T63-26.114	8.1.0	8.0.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	MTSI QoE configuration and reporting, negotiated GBR and AS bandwidths, additional SDP examples for SDP answers, initial codec mode and RTP/RTCP symmetric media stream are corrected.
ARIB STD-T63-26.234	8.1.0	8.0.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Introduction of the support for scaled playout and itroduction of PSS Timeshifting Functionality are added.
ARIB STD-T63-26.346	8.1.0	8.0.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Time-shifting capability indication for MBMS services, updates of references in MBMS, hybrid streaming delivery appendix, corrections of the FEC framework for MBMS streaming, additional guideline to use FEC streambundling for MBMS and interleaving for fast channel switching and tune-in time in FEC-protected MBMS services are added.
ARIB STD-T63-27.007	8.6.0	8.5.0	C1	AT command set for 3G User Equipment (UE)	
ARIB STD-T63-31.102	8.4.0	8.3.0	C6	Characteristics of the USIM Application	- USIM provisioning for home (e)NodeB - Support for LTE in the EF-Operator PLMN List - Correction to Example for MMS Issuer/User Connectivity Parameters - Addition of I-WLAN related files and procedures

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					- Storage of EPS Mobility Management parameters
ARIB STD-T63-31.111	8.4.0	8.3.0	C6	USIM Application Toolkit (USAT)	- Correct Geographical Location Request Terminal response value - I-WLAN Steering of Roaming Refresh Command
ARIB STD-T63-31.221	8.0.0	1.0.0	C6	Contact Manager for 3GPP UICC applications - internal interface aspects	- Approved new specification of v2.0.0 on Contact Manager API for Java Card
ARIB STD-T63-33.102	8.1.0	8.0.0	S3	3G security; Security architecture	Correction on the storage of keys on the USIM
ARIB STD-T63-33.107	8.6.0	8.5.0	S3	3G security; Lawful interception architecture and functions	Editorial corrections to 33.107 Corrections and clarifications of LI for EPS and alignment with latest version of SAE stage 2 specs. Clarification on 3G DT with the GGSN
ARIB STD-T63-33.108	8.5.0	8.4.0	S3	3G security; Handover interface for Lawful Interception (LI)	Clarification of encoding of Access Point Name (APN) LI Handover Interface for SAE/EPS Clarification on 3G DT with the GGSN
ARIB STD-T63-33.203	8.5.0	8.4.0	S3	3G security; Access security for IP-based services	Usage of SIP digest and NBA values between the S-CSCF and the HSS Consistent handling of the integrity-protected flag and Inclusion of authentication procedures related to ICS Correcting the IMC text Editorial corrections in Annex P3 and P.4.2 Removal of SIP Digest Authentication Vector Editor's Note Usage of AVs for authentication of Register and Non-Register messages

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					ISIM terminology
ARIB STD-T63-33.210	8.2.0	8.1.0	S3	3G security; Network Domain Security (NDS); IP network layer security	Update of IKEv2 SA profile
ARIB STD-T63-33.220	8.5.0	8.4.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	Add FC number space value allocations and clarification on length parameter Using Unicode Standard Normalization Form when encoding using UTF-8
ARIB STD-T63-33.223	8.2.0	8.1.0	S3	Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) Push function	GBA-Push resolution of editors notes and corrections Introduction of UE-Id type indicator Push NAF authorization
ARIB STD-T63-33.246	8.2.0	8.1.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	Clarification of MBMS authorization
ARIB STD-T63-33.259	8.2.0	8.1.0	S3	Key establishment between a UICC hosting device and a remote device	Input parameter encoding shall rely on TS 33.220 KDF Removing editor's note on IANA registration
ARIB STD-T63-33.401	8.2.1	8.1.1	S3	3GPP System Architecture Evolution (SAE); Security architecture	Specification of security algorithms for EPS KDFs for EPS shall not be negotiated Removal of editor's notes that are resolved or are related to new functionality KeNB Derivation During inter-RAT TAU Inter-RAT change from GERAN/UTRAN to E-UTRAN with mapped context Storage of EPS NAS security context in the UE Clarfication in definitions Correction of definition and usage of Key Set Identifier

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					(KSI) in EPS Correction of handling of EPS security contexts Correction of storage of security contexts during state transitions, handling of mapped contexts Introducing the generic term “eKSI” for the Key Set Identifier in E-UTRAN Correction of definition of GUTI in EPS Transfering unused AVs Corrections to the KDF input parameters RLF recovery procedure Addition of missing requirements to drop messages with wrong or missing MAC NAS uplink and downlink ciphering Correction and addition of the security features in SRVCC. Correction of idle mode mobility from E-UTRAN to UTRAN Correction of idle mode mobility from UTRAN to E-UTRAN Correction of handover procedure from E-UTRAN to UTRAN Correction of definition and usage of Key Set Identifier (KSI) in EPS EPS algorithm selection and bidding down attack and added MME Algorithm selection with a prioritized list Correction of Handover from UTRAN to E-UTRAN and activation of cached context Removal of editor's notes related to section 6 and clarification of ASME

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					Inter-RAT change from GERAN/UTRAN to E-UTRAN with mapped context Clarification on MME requirement in UTRAN-eUTRAN handover Correction of idle mode mobility from UTRAN to E-UTRAN Storage of cached EPS NAS security contexts after security interworking from UTRAN to E-UTRAN E-UTRAN key identification Clarification on User Data Protection Corrections to section 6.2 describing the key hierarchy Correction of text on handling of security capabilities in handover from E-UTRAN to UTRAN (section 9.2.1) Correction of text on activation of security in E-UTRAN and consequences for Handover from E-UTRAN Harmonising clauses 9.2.2 on HO from UTRAN and 10.3.2 on HO from GERAN with clause 7.2.9 on key-change-on-the fly Correction of S1/X2 transport protection Removal of editor’s notes on security requirements on eNodeB Requirements on secure environment within eNB Corrections to Section 7.2.3 on E-UTRAN key lifetime E-UTRAN handover key derivations correction Corrections to security procedures for interworking between E-UTRAN and GERAN and change of subclause titles

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					Changing titles and introductory text of subclauses relating to inter-RAT idle mode procedures – UTRAN case Editorial correction
ARIB STD-T63-33.402	8.2.1	8.1.1	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Change on some names of interfaces in 33.402 and an editorial modification MIPv4 SPI Collision Avoidance MN-HA Key generation during initial attach or additional PDN connectivity Handling of Mobility Keys during Re-authentication Aligment of TS 33.402 to draft-arkko-eap-aka-kdf and clarification of indication of type of authentication from AAA to HSS Resolution of Editor's note on tunnel fast re-authentication Clarifications to security procedures for DSMIPv6 Adding EMSK derivation in clause 6.2 Fast re-authentications for DSMIPv6 AMF separation bit for untrusted non-3gpp access for S2c Finalising the PMIP security requirements Key Derivation Function to derive CK', IK' from CK, IK for non-3GPP access to EPC Change on some names of interfaces in 33.402 and some corrections Removing editor's note on legacy UEs Correction of text on access authentication for untrusted access

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Correction of text on access authentication for untrusted access Clarification of indication of type of authentication from AAA to HSS and on access network authorization in AAA server Modification of the MIPv4 bootstrapping ANDSF security MIPv4 support for Additional PDN connectivity MCC editorial correction
ARIB STD-T63-34.108	8.5.0	8.4.0	R5	Common test environments for User Equipment (UE); Conformance testing	- Addition of default RAB / RB / messages for LCR TDD. - Addition of Rel-7 IEs / RF E-DCH test procedure. - Some corrections.
ARIB STD-T63-34.121-1	8.5.0	8.4.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1:	- Addition of HSDPA performance test cases Corrections and clarifications
ARIB STD-T63-34.121-2	8.5.0	8.4.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	- Clarification of titles for MIMO test cases 9.3.7A and 9.3.7B(RP-080955) - Applicability changes for Demodulation of HS-DSCH in 34.121-2.(RP-080956)
ARIB STD-T63-34.123-1	8.5.0	8.4.0	R5	UE conformance specification;Part 1: Protocol conformance specification	- Addition of LCR TDD / E-FACH test cases - Corrections to existence test cases
ARIB STD-T63-34.123-2	8.5.0	8.4.0	R5	UE conformance specification;Part 2: ICS proforma specification	- Changes are related to TS34.123-1 changes
ARIB STD-T63-36.201	8.2.0	8.1.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Long Term Evolution (LTE)	Add definitions for two types of modulo operations in Appendix A.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
				physical layer; General description	
ARIB STD-T63-36.211	8.5.0	8.4.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation	Align and introduce missing RRC parameters. Clarify the link between the amplitude scaling factors defined in TS 36.211 and the corresponding power computed in TS 36.213. Introduce the combination of extended cyclic prefix in downlink and normal cyclic prefix in uplink for TDD, and also introduce the combination of normal cyclic prefix in downlink and extended cyclic prefix in uplink for TDD (4.2). Correct the scrambling sequence for PUSCH (5.3.1). Clarify the scrambling sequence initialization for PUSCH (5.3.1) and PDSCH (6.3.1). Correct PUSCH hopping pattern. Clarify the set of physical resource blocks to be used for PUSCH (5.3.4). Clarify PUCCH formats 1/1a/1b. Define shortened PUCCH format 1 (5.4.1). Clarify scrambling of ACK/NAK bits for PUCCH format 2a/2b (5.4.2). Correct demodulation reference signal sequence for PUSCH (5.5.2.1.1) and PUCCH (5.5.2.2.1). Correct the mapping of cyclic shift field in DCT format 0 (5.5.2.1.1). Clarify SRS sequence (5.5.3.1). Correct SRS configuration in UpPTS (5.5.3.2). Clarify SRS subframe configuration (5.5.3.3). Clarify the random access preamble transmission timing (5.7.1, 5.7.2). Introduce PRACH Resource Index (5.7.1). Clarify the usage of the resource elements reserved for reference signals but not used for transmission (6.2.4, 6.6.4). Correct layer mapping for transmit diversity with four

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					antenna ports (6.3.3.3, 6.3.4.3). Correct precoding for large delay CDD (6.3.4.2.2). Clarify the transmission of Physical control format indicator channel (6.7). Correct the definition of UE-specific reference signals (6.10.3).
ARIB STD-T63-36.212	8.5.0	8.4.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Multiplexing and channel coding	Correct specification of the number of DL HARQ processes for TDD (5.1.4.1.2). Clarify mapping of information bits (5.2.2.1, 5.3.1.1, 5.3.2.1, 5.3.3.1). Clarify input bits corresponding to 2-bit HARQ-ACK and 2-bit RI. Correct control MCS offset and SRS symbol puncturing. Clarify ACK/NACK transmission on PUSCH for TDD (5.2.2.6). Clarify the number of PUCCH-based CQI/PMI bits when reported on PUSCH (5.2.2.6.4). Clarify RI bit field mapping for PUCCH (5.2.3.3.1). Clarify BCH transport block size (5.3). Correct the definition of DCI formats 0/1/1A/1B/1D/2/2A (5.3.3.1). Clarify RNTI bit mapping for PDCCH CRC scrambling (5.3.3.2).
ARIB STD-T63-36.213	8.5.0	8.4.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures	Align and introduce missing RRC parameters. Correct description for radio link monitoring (4.2.1). Clarify path loss definition and Delta_TF. Correct the calculation of PUSCH PSD (5.1.1.1). Clarify reset of power control and random access response message (5.1.1.1, 5.1.2.1, 6.2). Correct the definition of the UE maximum allowed power (5.1.1.1, 6.1). Correct the definitions of rho_A snd rho_B in downlink power allocation. Clarify definition of downlink reference signal transmit power (5.2). Clarify PUSCH transmission delay (6.1.1).

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Include the TPC command indicated in random access response, delta_msg2. Clarify uplink grant in random access response (6.2). Clarify UE behavior when configured in transmission mode 7 and receiving PDSCH RBs overlapping with the transmission of one of physical channels (7.1). Clarify RNTI reception relating PDSCH (7.1, 8). Clarify type-2 PDSCH resource allocation for DCI format 1C (7.1.6.3). Clarify TBS determination for DCI formats 1A/IC (7.1.6.3, 7.1.7). Correct MCS handling for DwPTS (7.1.7). Correct HARQ operation (7.1.7.2, 8). Clarify codebook subset restriction for open-loop spatial multiplexing (7.2). Clarify CQI/PMI reporting (7.2, 7.2.1, 7.2.2). Clarify aperiodic CQI reporting for TDD (7.2.1). Clarify UE behavior in some combinations of SR, CQI/PMI/RI and ACK/NACK transmission (7.2.2). Clarify periodic CQI/PMI reporting using PUCCH for TDD (7.2.2). Clarify CQI definition (7.2.3). Specify an explicit mapping between PMI and codebook index (7.2.4). Correct control information multiplexing in subframe bundling mode (7.2.2, 8.6.1, 8.6.3). Introduce ACK/NACK transmission on PUSCH for TDD (7.3, 10.2). Correct TDD ACK/NACK bundling and multiplexing (7.3, 10.1). Introduce support for TTI bundling (8, 9.1.2). Clarify UL VRB allocation (8.1). Clarify UE sounding procedure. Correct shortened SR (8.2). Clarify the number of downlink HARQ processes. Clarify

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					timing relationship between PHICH and its associated PUSCH (8.3). Correct UE PUSCH hopping procedure (8.4, 8.4.1). Correct offset signaling of uplink control information MCS (8.6.3). Correct UE transmit antenna selection (8.7). Remove unnecessary restriction on PDCCH blind decoding (9.1.1). Correct PHICH index assignment (9.1.2). Include a new section for PDCCH validation for semi-persistent scheduling (9.2). Clarify UE-specific time domain position for SR transmission. Clarify UL ACK/NACK resource indication (10.1). Include UL ACK/NACK repetition (10.1, 10.2).
ARIB STD-T63-36.214	8.5.0	8.4.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer - Measurements	Clarify RSRQ measurement definition.
ARIB STD-T63-36.300	8.7.0	8.6.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	CR0036 to 36.300 [Rel-8] on Contention Resolution CR0037 to 36.300 [Rel-8] on ETWS SIB Alignment of 36.300 with stage 3 on 1xRTT CSfallback Data handling in UE during Inter-RAT mobility Removing of end time for dedicated preamble Remove the Note about RA preamble for FS2 Clarification of AS-NAS concatenation - Stage 2 CR 0044 to 36.300 on Miscellaneous corrections Proposed CR to 36.300 [Rel-8] on Security Overview

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Proposed CR to 36.300 [Rel-8] on MBMS PDCP reordering function removal Align Number of Cell Identities Periodic Updates In Connected Mode DRX Cleaning of the figure w.r.t Handover Control Plane - CR to TS 36.300 CR to 36.300 to capture measurement model for EUTRAN CSG Mobility Updates from RAN2 #63bis and RAN2 #64 CR to 36.300 on Correction of the Description of FS2 Changes to TS36.300 agreed in RAN3#61bis and RAN3#62
ARIB STD-T63-36.304	8.4.0	8.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	Correcting the UE behaviour when Sintrasearch and Snonintrasearch are not provided Proposed CR to 36.304 [Rel-8] on Definition of Proposed CR to 36.304 [Rel-8] on Intra-frequency reselection allowed/not-allowed concept Proposed CR to 36.304 [Rel-8] on Introduction of Pcompensation Proposed CR to 36.304 [Rel-8] on Support of UE autonomous search for E-UTRAN CSG cells when camped on other RAT than E-UTRAN Correction to range of nB in TS 36.304 Miscellaneous corrections to 36.304 Proposed CR to 36.304 [Rel-8] on Support of registration procedures as outcome of a manual CSG ID selection Implicit priority for CSG cells Correction of the reselection formula for offset used for PLMN selection Clarification of definition of SnonServingCell,x for cdma2000 RATs in TS 36.304

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Support of emergency calls in LTE Rel-8 CR to 36.304 on Removal of cellReservationExtension Idle mode agreements related to 36.304
ARIB STD-T63-36.321	8.4.0	8.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	CR0105 to 36.321 [Rel-8] on PHR Periodic Timer Start Proposed R1 of CR0106 to 36.321 [Rel-8] on PHR Reference CR 0107 to 36.321 Interactions between measurement gap and Msg3 transmission Proposed R1 of CR0108 to 36.321 [Rel-8] on PHR Reporting Values Correction relating to equal priorities CR 0110 to 36.321 on Correction to PHR CR0112r1 to 36.321 [Rel-8] Correction to BCCH Reception procedure Contention Resolution Timer PCH reception Correction to reception of assignments and grants Correction on Contention Resolution Proposed R1 of CR0117 to 36.321 [Rel-8] on on SR Clarifications and Repetitions Clarification on Padding value CR 0119 to 36.321 Correction and Clarification on TTI Bundling Clarification of DRX Active Time Text Proposal for Dedicated Preamble Assignment CR0122 to 36.321 [Rel-8] on Message 3 Definition Correction to prevent wrong contention resolution by adaptive retransmission command Bucket Size Parameter CR0125r2 to 36.321 [Rel-8] Correction to Multiple BSR CR0127 to 36.321 [Rel-8] RACH preambles labelling CR0128r1 to 36.321 [Rel-8] merging CR0126r0 and CR0128r0 CR0129r1 to 36.321 [Rel-8] Correction to PDU Format

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					CQI/ SRS/PMI/RI transmission during active time NDI and Msg4 Carrying Contention Resolution ID CR0132 to 36.321 [Rel-8] on MAC BSR trigger Clarification about Restarting the Periodic BSR Timer Correction to RA procedure initiated by eNB PDCCH order Correction on PHR triggering condition CR 0136 to 36.321 on Correction to UL HARQ Process for the transmission of Msg3 SPS occasions Robustness of Buffer Status Reporting Proposed CR to 36.321 [Rel-8] on UL HARQ and Measurement Gaps TAT and RACH procedure SRS and CQI Resources Release upon TAT Expiry Proposed CR to 36.321 Correction to RACH procedure BSR format for reporting empty buffers TTI Bundling Configuration Corrections to semi-persistent scheduling Priotitization of MAC control elements Correction to starting of TA timer Proposed CR to 36.321 SPS implicit release on UL Proposed CR to 36.321 Measurement gaps and SPS Proposed CR to 36.321 Setting reserved bits to zero Proposed CR to 36.321 [Rel-8] MAC ResetReconfig Option 2 RV setting Corrections to Random Access Procedure Number of HARQ processes for MIMO Corrections to power control and random access Correction on the definition of the PDCCH-subframe Correction to the coexist of SPS-RNTI and SI-RNTI or RA-RNTI Explicit release of SPS Linking HARQ process ID with the SPS resource

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Bucket Parameter Update Clarification on “PDCCH indicates a new transmission” for DRX Editorial corrections to MAC RB suspension and BSR contents RV setting Preamble group selection Use of dedicated preambles after HO complete Introduction of HARQ RTT Timer Correction to DRX configuration
ARIB STD-T63-36.322	8.4.0	8.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification	Proposed CR for aligning the construction of partial Status PDUs with intended operation Error Handling in RLC Miscellaneous corrections to 36.322 Correction to Segment Offset fields Correction to the description of the delivery of RLC SDU Minor issues on RLC The setting of VR(X) Adding RLC TM operation Removing a redundant text on VT(A) setting Counting RLC Retransmissions
ARIB STD-T63-36.323	8.4.0	8.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification	Clarification with regards to the PDCP state variables CR 0039 to 36.323 on Correction to PDCP functional view PDCP “in-sequence delivery and duplicate elimination” always on Proposed CR to 36.323 on Processing of PDCP SDU received from upper layer

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Error in AM receive window behaviour Proposed CR on the described scope of Last_Submitted_PDCP_RX_SN Proposed CR to move DIRECTION from parameters provided by upper layer Clarification on COUNT Correction to PDCP procedure for SRB Correction to the PDCP re-establishment procedure Correction to PDCP functional view Miscellaneous PDCP corrections Proposed CR for error handling Proposed CR to 36.323 on Correction to PDCP Control PDU description Corrections to PDCP STATUS REPORT
ARIB STD-T63-36.331	8.4.0	8.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Miscellaneous corrections and clarifications
ARIB STD-T63-36.401	8.4.0	8.3.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Architecture description	Clarify the relation between GUMMEI and MME UE S1AP ID Proposed way forward of FFS item in 36.401 Adding the reference and correction on the GUMMEI definition reference Correction on the eNB UE Context descriptions RIM support in E-UTRAN Correction of SAE Bearer Correction of reference error

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-36.410	8.1.0	8.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1 general aspects and principles	Correction of SAE Bearers Rapporteurs update of TS36.410 RIM support in E-UTRAN
ARIB STD-T63-36.411	8.1.0	8.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1	Rapporteurs Cut
ARIB STD-T63-36.412	8.4.0	8.3.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 signalling transport	Removal of chapter 8
ARIB STD-T63-36.413	8.4.0	8.3.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	changes to TS36.413 agreed in RAN3#62
ARIB STD-T63-36.414	8.3.0	8.2.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 data transport	Correction of invalid references Correction of SAE Bearers
ARIB STD-T63-36.420	8.1.0	8.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 general aspects and principles	Correction of SAE Bearer and Update of the list of X2 functions
ARIB STD-T63-36.422	8.4.0	8.3.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 signalling transport	Further clarification of SCTP Association handling Removal of chapter 8
ARIB STD-T63-36.423	8.4.0	8.3.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	changes to TS36.423 agreed in RAN3#62
ARIB STD-T63-36.424	8.4.0	8.3.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 data transport	Correction of SAE Bearer

(Annex 35)

3GPP ARIB Change history List of Technical Report Ver. 7.20 **18 March 2009**

1. Release 99

1.1. Added Technical Report

None

1.2. Revised Technical Report

None

2. Release 4

2.1. Added Technical Report

None

2.2. Revised technical Report

None

3. Release 5

3.1. Added Technical Report

None

3.2. Revised Technical Report

None

4. Release 6

4.1. Added Technical Report

None

4.2. Revised Technical Report

None

5. Release 7

5.1. Added Technical Report

None

5. 2. Revised Technical Report

Revised Technical Report Number	Version at ARIB TR-T12 Ver.7.20	Version at ARIB TR-T12 Ver.7.10	3GPP WG	Title	Change Summary
ARIB TR-T12-25.942	7.1.0	7.0.0	R4	Radio Frequency (RF) system scenarios	Clarification for test model 1 and Clarification on required additional coupling loss for co-sitting of MR or LA FDD BS with CDMA850 are made.

6. Release 8

6.1. Added Technical Report

Added Technical Report Number	Version at ARIB TR-T12 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB TR-T12-21.902	8.0.0		SP	Evolution of 3GPP system	Upgraded unchanged from Rel-7
ARIB TR-T12-22.936	8.0.0		S1	Multi-system terminals	Upgraded unchanged from Rel-7
ARIB TR-T12-22.944	8.0.0		S1	Serviice Requirements for UE Functionality Split	Upgraded unchanged from Rel-7
ARIB TR-T12-22.949	8.0.0		S1	Study on a generalized privacy capability	Upgraded unchanged from Rel-7
ARIB TR-T12-22.950	8.0.0		S1	Priority service feasibility study	Upgraded unchanged from Rel-7
ARIB TR-T12-22.952	8.0.0		S1	Priority service guide	Upgraded unchanged from Rel-7
ARIB TR-T12-22.953	8.0.0		S1	Multimedia priority service feasibility study	Upgraded unchanged from Rel-7
ARIB TR-T12-22.967	8.0.0		S1	Tranferring of emergency call data	Upgraded unchanged from Rel-7
ARIB TR-T12-22.978	8.0.0		S1	All-IP network (AIPN) feasibility study	Upgraded unchanged from Rel-7
ARIB TR-T12-23.977	8.0.0		S2	Bandwidth And Resource Savings (BARS) and speech enhancements for Circuit Switched (CS) networks	Upgraded unchanged from Rel-7

Added Technical Report Number	Version at ARIB TR-T12 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB TR-T12-25.903	8.0.0		R1	Continuous connectivity for packet data users	Upgraded unchanged from Rel-7
ARIB TR-T12-25.906	8.0.0		R4	Dynamically reconfiguring a Frequency Division Duplex (FDD) User Equipment (UE) receiver to reduce power consumption when desired Quality of Service (QoS) is met	Upgraded unchanged from Rel-7
ARIB TR-T12-25.912	8.0.0		RP	Feasibility study for evolved Universal Terrestrial Radio Access (UTRA) and Universal Terrestrial Radio Access Network (UTRAN)	Upgraded unchanged from Rel-7
ARIB TR-T12-25.913	8.0.0		RP	Requirements for Evolved UTRA (E-UTRA) and Evolved UTRAN (E-UTRAN)	Upgraded unchanged from Rel-7
ARIB TR-T12-25.914	8.0.0		R4	Measurements of radio performances for UMTS terminals in speech mode	Upgraded unchanged from Rel-7
ARIB TR-T12-25.942	8.0.0		R4	Radio Frequency (RF) system scenarios	Clarification for test model 1 is made.
ARIB TR-T12-25.943	8.0.0		R4	Deployment aspects	Upgraded unchanged from Rel-7
ARIB TR-T12-25.951	8.0.0		R4	Base Station (BS) classification (FDD)	Upgraded unchanged from Rel-7
ARIB TR-T12-25.963	8.0.0		R4	Feasibility Study on interference cancellation for UTRA FDD UE	Upgraded unchanged from Rel-7
ARIB TR-T12-25.996	8.0.0		R1	Spatial channel model for Multiple Input Multiple Output (MIMO) simulations	Upgraded unchanged from Rel-7

Added Technical Report Number	Version at ARIB TR-T12 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB TR-T12-26.902	8.0.0		S4	Video codec performance	Upgraded unchanged from Rel-7
ARIB TR-T12-26.911	8.0.0		S4	Codec for Circuit switched (CS) Multimedia Telephony Service;Terminal Implementor's Guide	Upgraded unchanged from Rel-7
ARIB TR-T12-26.914	8.0.0		S4	Multimedia telephony over IP Multimedia Subsystem (IMS); Optimization opportunities	Upgraded unchanged from Rel-7
ARIB TR-T12-26.935	8.0.0		S4	Packet Switched (PS) conversational multimedia applications; Performance characterization of default codecs	Upgraded unchanged from Rel-7
ARIB TR-T12-26.936	8.0.0		S4	Performance characterization of 3GPP audio codecs	Upgraded unchanged from Rel-7
ARIB TR-T12-26.937	8.0.0		S4	Transparent end-to-end packet switched streaming service (PSS); Real-time Transport Protocol (RTP) usage model	Upgraded unchanged from Rel-7
ARIB TR-T12-26.943	8.0.0		S4	Recognition performance evaluations of codecs for Speech Enabled Services (SES)	Upgraded unchanged from Rel-7
ARIB TR-T12-26.944	8.0.0		S4	End-to-end multimedia services performace metrics	Upgraded unchanged from Rel-7
ARIB TR-T12-26.946	8.0.0		S4	Multimedia Broadcast/Multicast Service (MBMS) user service guidelines	Upgraded unchanged from Rel-7
ARIB TR-T12-26.975	8.0.0		S4	Performance characterization of the AMR speech codec	Upgraded unchanged from Rel-7

Added Technical Report Number	Version at ARIB TR-T12 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB TR-T12-26.976	8.0.0		S4	Performance characterization of the Adaptive Multi-Rate Wideband (AMR-WB) speech codec	Upgraded unchanged from Rel-7
ARIB TR-T12-26.978	8.0.0		S4	Results of the Adaptive Multi-Rate (AMR) noise suppression selection phase	Upgraded unchanged from Rel-7
ARIB TR-T12-31.900	8.0.0		C6	SIM/USIM internal and external interworking aspects	Upgraded unchanged from Rel-7
ARIB TR-T12-31.919	8.0.0		C6	2G/3G Java Card™ Application Programming Interface (API) based applet interworking	Upgraded unchanged from Rel-7
ARIB TR-T12-33.919	8.0.0		S3	3G Security; Generic Authentication Architecture (GAA); System description	Upgraded unchanged from Rel-7
ARIB TR-T12-33.978	8.0.0		S3	Security aspects of early IP Multimedia Subsystem (IMS)	Upgraded unchanged from Rel-7
ARIB TR-T12-33.980	8.0.0		S3	Liberty Alliance and 3GPP security interworking; Interworking of Liberty Alliance Identity Federation Framework (ID-FF), Identity Web Services Framework (ID-WSF) and Generic Authentication Architecture (GAA)	Upgraded unchanged from Rel-7
ARIB TR-T12-34.926	8.0.0		R4	Electromagnetic compatibility (EMC); Table of international requirements for mobile terminals and ancillary equipment	Upgraded unchanged from Rel-7
ARIB TR-T12-35.909	8.0.0		S3	3G Security; Specification of the MILENAGE algorithm set: an example algorithm set for the 3GPP authentication and key generation	Upgraded unchanged from Rel-7

Added Technical Report Number	Version at ARIB TR-T12 Ver.7.20		3GPP WG	Title	New Document Summary
				functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Summary and results of design and evaluation	
ARIB TR-T12-35.919	8.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 5: Design and evaluation report	Upgraded unchanged from Rel-7

6. 2. Revised Technical Report

Revised Technical Report Number	Version at ARIB TR-T12 Ver.7.20	Version at ARIB TR-T12 Ver.7.10	3GPP WG	Title	Change Summary
ARIB TR-T12-21.900	8.3.0	8.2.0	SP	Technical Specification Group working methods	Determination of freeze dates for stages of a Release. (Correction recommended by OP ad hoc group on improvements.) Cross-TSG work coordination. (Correction recommended by OP ad hoc group on improvements.) Introduction of concept of "exception sheets" for laterunning work items
ARIB TR-T12-21.905	8.7.0	8.6.0	S1	Vocabulary for 3GPP Specifications	CSG cell definition Correction of Home NodeB Identifier Addition of definition of IMS Credentials and IMC abbreviation

Revised Technical Report Number	Version at ARIB TR-T12 Ver.7.20	Version at ARIB TR-T12 Ver.7.10	3GPP WG	Title	Change Summary
ARIB TR-T12-25.993	8.2.0	8.1.0	R2	Typical examples of Radio Access Bearers (RABs) and Radio Bearers (RBs) supported by Universal Terrestrial Radio Access (UTRA)	Update of references to TS 34.108 CS voice over HSPA RAB combinations
ARIB TR-T12-36.942	8.1.0	8.0.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Frequency (RF) system scenarios	The rationale of unwanted emission specifications is introduced. And the correction of unwanted emission requirements for multi-carrier BS is made.

IMT-2000 MC-CDMA System 標準規格及び技術資料の改定の概要

1　改定理由

IMT-2000 MC-CDMA System 標準規格及び技術資料については、第 71 回規格会議（2008 年 9 月 25 日）において ARIB STD-T64/ TR-T13 Ver.4.70 に改定した。

今回は、主に 2008 年 7 月～12 月に 3GPP2 が制定した仕様及び 3GPP2 対応 WG 配下の cdma2000 小電力レピータ・アドホックにおいて策定した「cdma2000 方式携帯電話用小電力レピータ ARIB 標準規格 (ARIB STD-T64-LPR v1.0)」を本標準規格及び技術資料に導入するために、ARIB STD-T64/ TR-T13 Ver.4.80 として改定するものである。

2　改定内容

2.1 STD-T64 の主な改定点（別紙 1 参照）

(1) 新規規格の追加
- ① バンドクラス仕様
- ② 信号適合性試験仕様
- ③ HDP（Highly Detectable Pilot）仕様
- ④ 小電力レピータ仕様（別紙2参照）

(2) 既存規格の改定
- ① ICカード仕様
- ② OTA仕様

2.2 TR-T13 の改定点（別紙 1 参照）

(1) 新規規格の追加

なし

(2) 既存規格の改定

なし

（STD-T64 のバージョンにあわせて TR-T13 を Ver.4.70 から Ver.4.80 に改定する。）

3　電波法関連規則に関する事項の確認について

今回追加する仕様について、電波法関連規則等との関係を調査した結果、問題のないことを確認している。

以 上

別紙 1

STD-T64（Ver.4.70 から Ver.4.80）の改定点

(1)　新規規格の追加

番号	規格名称	表題	内容
1	ARIB STD-T64-C.S0057-C v1.0	Band Class Specification for cdma2000 Spread Spectrum Systems	バンドクラス仕様。Band Class 18（700MHz Public Safety Band）、Band Class 19（Lower 700MHz Band）を追加
2	ARIB STD-T64-C.S0059-0 v1.0	Signaling Conformance Test Specification for cdma2000 Position Determination Services	移動機に関わる位置情報サービス向けの信号適合性試験仕様
3	ARIB STD-T64-C.S0093-0 v1.0	Highly Detectable Pilot Specification for the cdma2000 High Rate Packet Data Air Interface	HRPD において、より多くの基地局を検出することを可能とするパイロット仕様
4	ARIB STD-T64-C.S0094-0 v1.0	Signaling Conformance Test Specification for Interworking of cdma2000 1x and High Rate Packet Data Systems	1x/HRPD インターワークに関わる信号適合性試験仕様
5	ARIB STD-T64-LPR-0 v1.0	The Low Power Repeaters for cdma2000 Cellular Telephones	包括免許の対象となる cdma2000 方式携帯電話用小電力レピータの技術的条件の規定

(2)　既存規格の改定

番号	規格名称	表題	内容
1	ARIB STD-T64-C.S0023-C v2.0	Removable User Identity Module for Spread Spectrum Systems	R-UIM 仕様。誤記修正
2	ARIB STD-T64-C.S0065-0 v2.0	cdma2000 Application on UICC for Spread Spectrum Systems	3G 対応 IC カードのアプリケーション仕様。誤記修正
3	ARIB STD-T64-C.S0066-0 v2.0	Over-the-Air Service Provisioning for MEID-Equipped Mobile Stations in Spread Spectrum Systems	MEID 対応移動機の OTA 仕様。EUIMID 対応追加及び誤記修正

TR-T13（Ver.4.70 から Ver.4.80）の改定点

(1)　新規規格の追加

なし

(2)　既存規格の改定

なし

別紙 2

cdma2000 方式携帯電話用小電力レピータ
(The Low Power Repeaters for cdma2000 Cellular Telephones)
標準規格の概要

1 概要

本標準規格 ARIB STD-T64-LPR(案)は、無線設備規則第四十九条の六の三及び四「符号分割多元接続方式携帯無線通信を行う無線局等の無線設備(CDMA 1X)」、並びに無線設備規則第四十九条の六の五「時分割・符号分割多重方式携帯無線通信を行う無線局等の無線設備(EV-DO)」に規定される無線設備のうち、携帯無線通信の中継を行う無線設備について規定したものである。本件に関係する電波法施行規則及び無線設備規則の一部を改正する省令は、平成 19 年 12 月 27 日に施行されている。

本標準規格(案)で規定する小電力レピータは、屋内における圏外の解消、不法中継装置の設置防止を促進するため、携帯電話等事業者等が自宅や店舗等に安価でかつ迅速に設置することを可能とするもので、包括免許の対象となるものである。

本標準規格(案)は、IMT-2000 MC-CDMA System 標準規格(ARIB STD-T64)の一部として、3GPP2 が制定した仕様と同様に STD-T64 に組み入れることとする。

なお、本標準規格(案)は英文でのみ作成している。

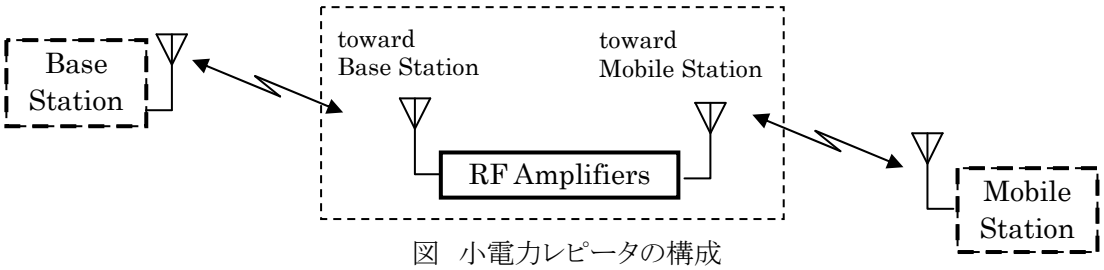


図 小電力レピータの構成

2 主な技術的条件

項 目	規 格
最大送信出力及び空中線利得	下り(対端末送信): 総電力、110mW、空中線利得 0dBi 上り(対基地局送信):総電力 40mW、空中線利得 9dBi
スプリアス領域における不要発射の強度の低減	PHS 帯域における不要波発射レベルを 10dB 低減
帯域外利得	割当周波数帯域端から • 5MHz離れた周波数にて利得 35dB 以下 • 10MHz離れた周波数にて利得 20dB 以下 • 40MHz離れた周波数にて利得0dB 以下
その他の具備すべき機能	(1) 発振防止機能 (2) 将来の周波数再編等に対応するための機能(将来の周波数再編後も他の無線局の電波を違法に増幅することがないよう、事業者識別符号を識別する機能等。)

3 標準規格(案)の作成及び審議

本標準規格(案)は高度無線通信研究委員会 IMT Partnership 部会 3GPP2 対応 WG で作成し、IMT Partnership 部会の承認を得ている。

4 標準規格の維持改定方法

本標準規格(案)の維持改定は、3GPP2 対応 WG において継続して行うことを予定している。

以上

参考資料７３－３

OFDMA Broadband Mobile Wireless Access System (WiMAX™ applied in Japan) 標準規格の改定の概要

1　概要

OFDMA Broadband Mobile Wireless Access System (WiMAX™ applied in Japan) 標準規格（ARIB STD-T94）は、平成 19 年 12 月 12 日の第 68 回規格会議で Ver. 1.0 が策定され、その後の規格会議を経て、Ver. 1.3 に改定されている。

その後、Ver. 1.0 に係る必須の工業所有権の実施の権利に係る確認書：16 件及び Reference：3 件の提出があったため、当該確認書を追加して Ver. 1.4 に改定する。

2　改定内容

(1)　標準規格本文の改定はない。

(2)　ARIB STD-T94 Ver. 1.3 “Preface” “INDUSTRIAL PROPERTY RIGHTS (IPRs)” の”Attachment 2” の該当箇所に別紙 1 を追加する。

以上

Approved by the 73rd Standard Assembly

Attachment 2　List of Essential Industrial Property Rights　(selection of option 2)

特許出願人 (PATENT HOLDER)	発明の名称 (NAME OF PATENT)	出願番号等 (REGISTRATION NO. / APPLICATION NO.)	備考 （出願国名） REMARKS
QUALCOMM Incorporated *10	Method and apparatus for measuring channel state information	JP2003-530010	US, AU, BR, CA, EP, HK, ID, IL, IN, JP, KR, MX, NO, WO, RU, SG, TW, UA
	Multiplexing of real time services and non-real time services for OFDM systems	JP2004-503181	US, BR, CN, EP, HK, KR, TW, WO
	Method and apparatus for utilizing channel state information in a wireless communication system	JP2005-502223	US 6,771,706, US 20040165558, BE, BR, CN, DE, EP, ES, FI, FR, GB, HK, IE, IT, JP, KR, LU, NL, SE, TW, WO
	Rate selection for an OFDM system	JP2005-533402	US 7,012,883, US 20060087972, BR, CN, EP, HK, KR, TW, WO
	Diversity Transmission Modes for MIMO OFDM Communication Systems	JP2005-531219	US 7,095,709, US 20060193268, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, RU, SG, TW, UA, WO
	Random Access for Wireless Multiple-Access Communication Systems	JP2006-504338	US, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, TW, UA, WO
	Reverse Link Automatic Repeat Request	JP2006504337	US, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, TW, UA, WO

*10: These patents are applied to the part defined by ARIB STD-T94 Ver. 1.0.

Attachment 2　List of Essential Industrial Property Rights　(selection of option 2)

特許出願人 (PATENT HOLDER)	発明の名称 (NAME OF PATENT)	出願番号等 (REGISTRATION NO. / APPLICATION NO.)	備考 （出願国名） REMARKS
QUALCOMM Incorporated *10	MIMO System with Multiple Spatial Multiplexing Modes	JP2006-504339	US 20040136349, US 12/115,522, US 12/115,523, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, TW, UA, WO
	Transmit Diversity Processing for a Multi-Antenna Communication System	JP2006-504366	US 7,002,900, US 20060039275, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, TW, UA, WO
	A method and apparatus of using a single channel to provide acknowledgement and assignment messages	JP2007-520169	US, AU, CN, HK, IN, KR, WO
	Shared signaling channel for a communication system	JP2008-507896	US, CA, CL, CN, EP, HK, IN, KR, MY, TW, WO
	Apparatus and Method for Reducing Message Collision Between Mobile Stations Simultaneously Accessing a Base Station in a CDMA Cellular Communications System	JP3152353	US 5,544,196, US 6,615,050, AT, AU, BE, BR, BG, CA, CH, DE, DK, KP, EP, ES, FI, FR, GB, GR, HK, HU, IE, IL, IT, KR, MX, NL, WO, CN, PT, RU, ZA, SE, SK

*10: These patents are applied to the part defined by ARIB STD-T94 Ver. 1.0.

Attachment 2　List of Essential Industrial Property Rights　(selection of option 2)

特許出願人 (PATENT HOLDER)	発明の名称 (NAME OF PATENT)	出願番号等 (REGISTRATION NO. / APPLICATION NO.)	備考 （出願国名） REMARKS
QUALCOMM Incorporated *10	Method and apparatus for performing mobile assisted hard handoff between communications Systems	JP2001-508625	US, AM, AU, AZ, BR, BY, CA, CL, IL, DE, EPC, EP, ES, FI, FR, GB, HK, ID, IE, IN, IT, KG, KR, KZ, MD, MX, NL, NZ, WO, CN, TW, RU, ZA, SE, SG, TJ, TM, UA
	Method and Apparatus for High Rate Packet Data Transmission	JP2001522211	US 7,079,550, US 20060280160, US 20070066320, US 20070019567, US 20070025267, AR, AT, AU, BE, BR, CA, CH, CL, CN, CY, CZ, EP, HK, NZ, DE, DK, ES, FI, FR, GB, GR, HU, ID, IE, IL, IN, IT, JP, KR, LU, MY, MC, MX, NL, NO, WO, PL, PT, RO, RU, ZA, SE, SG, UA, VN
	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	JP2002-514844	AU, BR, US 20060120490, US 20070153941, CA, DE, EP, FI, FR, GB, HK, IL, IT, JP, KR, MX, NO, WO, CN, TW, SE, SG
	Reservation Multiple Access	JP2002-528017	US, CN, EP, HK, KR, WO

*10: These patents are applied to the part defined by ARIB STD-T94 Ver. 1.0.

Attachment2　List of Essential Industrial Property Rights　（Reference: Not applied in Japan）

特許出願人 (PATENT HOLDER)	発明の名称 (NAME OF PATENT)	出願番号等 (REGISTRATION NO. / APPLICATION NO.)	備考 （出願国名） REMARKS
QUALCOMM Incorporated *10	Mobile Station Assisted Soft Handoff in a CDMA Cellular Communications System	US5,640,414	US 5,267,261
	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	US 7,006,848	
	Remote Transmitter Power Control in a Contention Based Multiple Access System	US 5,604,730	

*10: These patents are applied to the part defined by ARIB STD-T94 Ver. 1.0.

参考資料７３－４

OFDMA / TDMA TDD Broadband Wireless Access System (Next Generation PHS)
標準規格の改定の概要

1　改定理由

OFDMA / TDMA TDD Broadband Wireless Access System (Next Generation PHS)標準規格（ARIB STD-T95）は、平成 20 年 6 月 6 日の第 70 回規格会議で Ver.1.1 が承認された。

その後、Ver1.0 に係る必須の工業所有権の実施の権利に関する確認書（21 件）及び Reference（7 件）の提出があったので、当該確認書を追加して Ver.1.2 に改定する。

2　改定内容

(1) 標準規格本文の改定はない。

(2) ARIB STD-T95 Ver.1.2 " List of Essential Industrial Property Rights (IPRs)"の該当箇所に別紙を追加する。

以上

Attachment 2 List of Essential Industrial Property Rights（DRAFT） (selection of option 2)

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 （出願国名） REMARKS
QUALCOMM Incorporated *[10]	Synchronized Pilot Reference Transmission for a Wireless Communication System	JP2003-529971	US 20080008136, US 7,289,473, BR, CN, DE, EP, ES, FI, FR, GB, HK, IT, KR, SE, WO
	Reducing radio link supervision time in a high data rate system	JP2003-524965	AU, BR, CA, CN, DE, EP, FI, FR, GB, HK, ID, IL, IN, KR, MX, NO, RU, SE, SG, TW, UA, US, WO
	A method and an apparatus for a quick retransmission of signals in a communication system	JP2003-533078	US 6,694,469, US 7,127,654, US 20070168825, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, WO, RU, SG, TW, UA
	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	JP2004-515932	US 7,245,594, US 20070064646, US 20070263655, AU, BR, CA, CN, EP, HK, ID, IL, IN, JP, KR, MX, NO, RU, SG, TW, UA, WO
	Method and apparatus for controlling data rate in a wireless communication system	JP2005-507208	US, CN, DE, EP, ES, FI, FR, GB, IT, KR, SE, SG, TW, WO
	Method and Apparatus for High Rate Packet Data and Low Delay Data Transmissions	JP 2004-514369	US 7,068,683, US 20060187877, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, NO, RU, SG, TW, UA, WO

Attachment 2 List of Essential Industrial Property Rights（DRAFT） (selection of option 2)

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 （出願国名） REMARKS
QUALCOMM Incorporated *[10]	Coding scheme for a wireless communication system	JP2004-535694	US 6,961,388, US 20050276344, BR, CN, EP, HK, KR, TW, WO
	Closed-Loop Rate Control for a Multi-Channel Communication System	JP2006-504372	US, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, TW, UA, WO
	Multicarrier Transmission Using a Plurality of Symbol Lengths	JP2006-504367	US, AU, BR, CA, CN, EP, HK, ID, IL, IN, KR, MX, RU, TW, UA, WO
	Method, Station and Medium Storing a Program for a Priority Based Scheduler with Variable Scheduling Periods and Variable Scheduled Periods	JP2007-508791	US, BR, CA, CN, EP, HK, IN, KR, RU, TW, WO
	System and method for diversity interleaving	JP2008-508815	US, AU, BR, CA, CN, EG, EP, HK, ID, IL, IN, KR, MX, NO, NZ, PH, RU, SG, UA, VN, WO, ZA
	Unified pulse shaping for multi-carrier and single-carrier waveforms	JP2008-511208	US, AR, CA, CN, EP, HK, IN, KR, MY, TW, WO
	Pilot Transmission and Channel Estimation for a Communication System Utilizing Frequency Division Multiplexing	JP2008-536359	US, AR, AU, BR, CA, CL, CN, EP, HK, ID, IL, IN, KR, MX, MY, NO, NZ, PH, RU, SG, TW, UA, VN, WO
	Power control for serving sector	JP B0008P0995	US, AR, AU, BR, CA, CN, EP, ID, IL, IN, KR, MX, MY, NO, NZ, PH, RU, SG, TW, UA, VN, WO

Attachment 2 List of Essential Industrial Property Rights（DRAFT） (selection of option 2)

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 （出願国名） REMARKS
QUALCOMM Incorporated *[10]	Method and apparatus for sending signaling information via channel IDS	WO07101041	US, BR, CA, CN, EP, IN, JP, KR, RU, SG, TW
	Method and apparatus for efficient reporting of information in a wireless communication system	WO07075744	US, CN, EP, IN, JP, KR, TW
	Mapping of subpackets to resources in a communication system	WO08086074	US, TW
	Apparatus and method for uplink power control of wireless communications	WO08101053	US, TW
	A power control subsystem	JP2002-501689	US 5,991,284, CN, DE, US 6,240,071, US 20010010684, EP, FR, GB, HK, JP, KR, WO
	Apparatus and Method for Reducing Power Consumption in a Mobile Communications Receiver	JP3193380	US 5,509,015, AU, BR, BG, CA, DE, DK, KP, EP, FI, FR, GB, HK, HU, IE, IL, IT, KR, MX, NL, WO, CN, RU, ZA, SE, SK
	Channel structure for communication systems	JP4152584	US 6,377,809, US 09/503,401, US 6,167,270, US 6,526,030, AU, BR, CA, CL, RU, DE, EP, FI, FR, GB, HK, ID, IT, KR, MX, NO, WO, CN, TW, SE, SG, UA

*[10]:These patents are applied to ARIB STD-T95 Ver.1.0.

(**Reference**：Not applied in Japan)　(DRAFT)

特許出願人 PATENT HOLDER	発明の名称 NAME OF PATENT	出願番号等 REGISTRATION NO./ APPLICATION NO.	備考 （出願国名） REMARKS
QUALCOMM Incorporated *[10]	Method and Apparatus for Radio Link Control of Signaling Messages and Short Message Data Services in a Communication System	US 7,142,565	
	Packet Flow Processing in a Communication System	US 7,277,455	
	Reverse Link Automatic Repeat Request	US 20040100927	
	System and method for scheduling transmissions in a wireless communication system	US 20050003843	
	Signaling method in an OFDM multiple access system	PCT/US2001/028314	US 7,295,509, US 20080063099, US 20050254416, EP, TW
	OFDM communications methods and apparatus	PCT/US2001/028315	US, EP, TW
	Methods and apparatuses for resource allocation randomization	US 61/021,005	

*[10]:These patents are applied to ARIB STD-T95 Ver.1.0.

参考資料７３－５改

特定ラジオマイクの陸上移動局の無線設備標準規格の改定の概要

現行 RCR STD-22　2.1 版からの改定の概要及び主な変更内容は以下のとおりです。

No.	改定の概要と主な変更内容
1	改定の概要 (1) 特定ラジオマイクのデジタル化に伴う記述の追加 (2) 誤記訂正等
2	主な変更内容
(1) 関連	平成 21 年 3 月 17 日に特定ラジオマイクの陸上移動局の無線設備に係る電波法施行規則等の改正が行われ、放送番組やコンサート、舞台劇場、イベント等での将来的な需要を十分満足できるよう周波数利用効率を高めるため、特定ラジオマイクへのデジタル方式の導入が制度化された。それに伴い、本標準規格を以下のように改定する。 ・「第 4 章　デジタル方式特定ラジオマイク用無線設備の技術的条件」を新規に規定する。また、「第 3 章　無線設備の技術的条件」を「第 3 章　アナログ方式特定ラジオマイク用無線設備の技術的条件」に改定する。 ・ 測定法はアナログ方式だけの記述となっているためデジタル方式の測定法を追加する。従来、受信装置の測定法を記載していたが規定にないため削除する。 ・ 「付録」としてデジタル方式を用いた場合のチャネル呼称、グループ分割及び使用上の制限事項等を追加する。
(2) 関連	・ 誤記訂正、明確化のための追記、参照告示の変更等を行う。

(詳細は、規格会７３－９の改定履歴表を参照のこと)

添付資料

1. デジタル特定ラジオマイクの導入の背景

特定ラジオマイクは、放送番組制作やプロのコンサート、舞台劇場、イベント会場等で用いられる高音質型のワイヤレスマイクの無線局であり、平成 20 年 6 月末現在、我が国においてアナログ方式により約 1 万 7 千局が開設・運用されています。

近年、コンサートや大規模なイベント等において、多くのワイヤレスマイクを使用する場面が増加し、今後、更なる利用が見込まれることから、音声品質を保持しつつ将来的な需要を十分満足できるよう、周波数利用効率の高いデジタル方式の導入が求められているところ、平成 21 年 3 月にデジタル特定ラジオマイクの導入に関して必要な関係規定の整備が行われました。

＜参考＞ラジオマイクの現状

分類通称	特定ラジオマイク（A 型）	B 型	C 型	D 型
使用周波数	779-788MHz 797-806MHz	806-810MHz	322-322.15MHz 322.25-322.4MHz	74.58-74.76MHz
占有周波数帯幅	110kHz/330kHz	110kHz （デジタル：192kHz）	30kHz	60kHz
チャネル数（同時使用時）	142 チャネル （20 チャネル）	30 チャネル （6 チャネル）	13 チャネル （4 チャネル）	4 チャネル （2 チャネル）
空中線電力	10mW 以下	10mW 以下	1mW 以下	10mW 以下
免許	要	不要	不要	不要
主な用途	放送番組制作、舞台、コンサートホール、大規模イベント会場	ホテル、結婚式場、会議場、カラオケボックス、学校集会場など	駅ホームなどの校内放送用	劇場・コンサートホール等案内放送用
普及台数	約 1.7 万台	約 200 万台（多くが B 型アナログ）		

2. 特定ラジオマイクの高度化に向けた技術的条件」

主なポイント

○ デジタル方式の導入

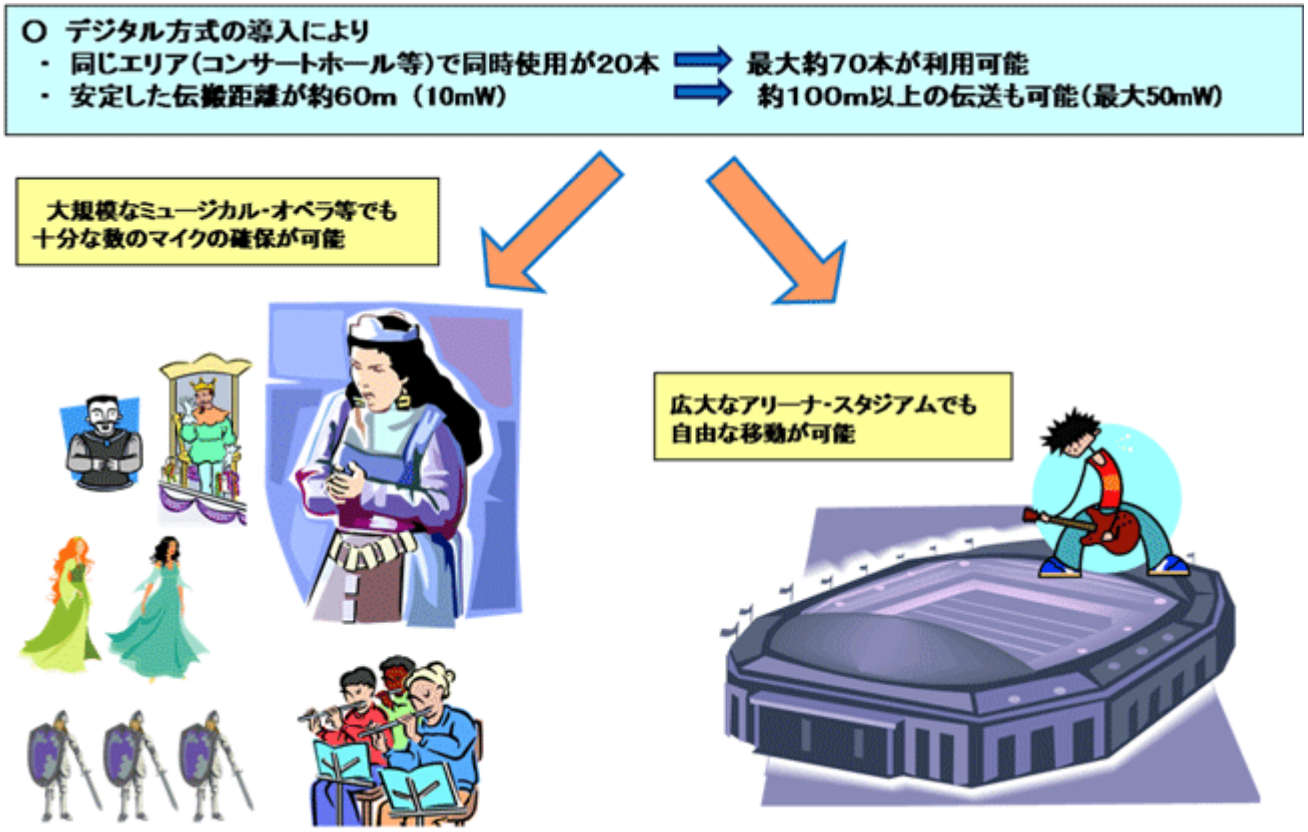
高音質型のプロ用ワイヤレスマイクである「特定ラジオマイク」にデジタル方式を導入。

これにより、大規模なミュージカル・オペラ等でより多くの出演者に対応した十分な数のマイクの確保が可能となるほか、最大送信電力の見直しも併せて広大なアリーナ・スタジアム等でのコンサートにおける自由な移動も可能となる。

○ デジタル方式の主な機能等

- 変調方式：位相変調・周波数変調・直交振幅変調（周波数帯幅最大 288kHz）
- 最大電力；50mW（想定伝送距離　約 100m）
- 周波数帯；800MHz帯

図　デジタル方式の特定ラジオマイクの機能（従来方式との比較）



デジタル簡易無線局の無線設備標準規格の改定の概要
（STD-T98 1.0 版から 1.1 版への改定）

1　概要

本標準規格（案）ARIB STD-T98 は、電波法施行規則第 4 条第 1 項第 25 号に規定される簡易無線通信業務を行う無線局において、無線設備規則第 54 条第 2 号に規定される 400MHz 帯のチャネル間隔が 6.25kHz の簡易無線局の無線設備について規定したものである。

また、本規格には無線設備規則第 54 条 2 号に規定されている 3 変調方式（実数零点単側波帯変調、四分のπシフト四相位相変調又は四値周波数偏位変調）が含まれる。

1.1　改定理由

改正告示（総務省告示平 21 第百二十八号）に基づく詳細規定の追加、その他の規定の明確化及び誤記修正

1.2　改定内容

（１）受信装置の標準感度規定の明確化
（２）キャリアセンスの規定の明確化（告示第百二十八号関連）
（３）キャリア・モニタリングと話中表示規定の明確化（告示第百二十八号関連）
（４）誤記修正
（５）その他

詳細は、規格会７３－１０の各編の改定履歴を参照のこと。

1.3　改定のポイント

改正告示により、キャリアセンスを実施して電波の発射が行われた場合には、その発射時から連続する 5 分間はキャリアセンスを省略できることにより、「通話の即時性」が向上する。

2　標準規格改定案の審議方法

本標準規格の改定案は、(社)全国陸上無線協会の技術部会 DCR 作業班において審議を行い、原案を作成した。

3　標準規格の維持改定方法

本標準規格の維持改定は、２の作業班において継続して行う。

地上デジタルテレビジョン放送用デジタル STL/TTL 伝送方式標準規格の改定の概要
（STD-B22　1.1 版から 2.0 版）

現行 ARIB STD-B22 1.1 版に対する改定の概要及び主な変更内容は以下のとおりです。

No.	改定の概要と主な変更内容
1	改定の概要
	(1) SHF 帯 STL/TTL の規格改定（第 1 章～第 4 章、参考資料 1～4） ・C-8、D-1 チャネル対応の IRF 追加等、審査基準改正に伴う改定 (2) UHF 帯 TTL 技術基準の規格追加（第 5 章、参考資料 6～15） ・長距離海上伝搬を目的とした UHF 帯 TTL の規格及び説明資料を追加
2	主な変更内容
(1) 関 連	第 1 章 一般事項、第 2 章 デジタル STL/TTL 技術方式の概要 ・UHF 帯 TTL の規定追加に伴う、「マイクロ波帯」の「SHF 帯及び UHF 帯」への明確化、準拠文書への省令の追加、及び略号の追加 第 3 章 SHF 帯 TS 伝送方式 ・F バンド(1)、F バンド(2)の周波数誤記訂正 ・「妨害」を「干渉」に表記を統一 ・干渉軽減係数（IRF）表の審査基準改正に伴う、数値の改定及び C-8、D-1 チャネル対応の IRF 表の追加 ・「3.25.1 送信ろ波器特性」において、原則ろ波器使用に表現を変更 ・「3.31 スプリアス発射又は不要発射の強度の許容値」の規定内容を省令に合わせて明確化 第 4 章 SHF 帯 IF 伝送方式 ・F バンド(1)の周波数誤記訂正 ・「妨害」を「干渉」に表記を統一 ・干渉軽減係数（IRF）表の審査基準改正に伴う、C-8、D-1 チャネル対応の IRF 表の追加 ・受信 IF 出力周波数の許容偏差の規定を設備規則改正に伴い改定 ・「4.25.1 送信ろ波器特性」において、原則ろ波器使用に表現を変更 参考資料 1～4 ・UHF 帯 TTL の規定追加に伴い、タイトルに「SHF 帯の」を追加して、本参考資料の対象を明確化 参考資料 1～2、参考資料 4 ・フェージングマージンを Fm、所要フェージングマージンを Fmr に表記を統一 参考資料 4 ・6.5/7.5G バンドの所要フェージングマージンの算出式を審査基準に合わせて追加

No.	改定の概要と主な変更内容
(2) 関 連	第 5 章 UHF 帯 TTL ・ 審査基準改正に伴い新規に章を追加 ・ 周波数は地上デジタルテレビジョン放送波と共用する 470～710MHz ・ 空中線電力の最大値は長距離海上伝搬もあり 100W（SHF 帯は 2／4W） ・ 変調方式は地上デジタルテレビジョン放送と同じ OFDM 変調（SHF 帯 IF 伝送方式の独立同期方式と同様） ・ 伝搬距離は離島間の伝送もあり、100km 以上も想定（SHF 帯は標準 50km） ・ フェージングの状況も SHF と異なり UHF 特有であるため、所要フェージングマージン及び SD 改善効果につき、実測をベースに新たな実験式を採用。なお、実測による確認値があれば使用可。 ・ 回線瞬断率は長距離回線でもあり、また放送波中継での区間品質との整合性を配慮し、0.1%とした。（SHF 帯では 5×10^{-7}/km） ・ 既存テレビジョン放送に影響を与えないため、放送局開設の基準にならい放送区域内での混信保護比を設定 参考資料 6～15 ・UHF 帯 TTL 特有の下記項目に関する説明資料を参考資料として新たに追加 - 回線設計 - 所要フェージングマージン - SD 改善効果 - 受信入力 - 回線品質 - 干渉検討 - 各種等化装置 - 空中線特性など

（詳細は規格会７３－１１の改定履歴表を参照のこと。）

デジタル放送におけるアクセス制御方式標準規格の改定の概要

（STD-B25 5.0 版から 5.1 版）

現行 ARIB STD-B25 5.0 版に対する改定の概要及び主な変更内容は以下のとおりです。

No.	改定の概要と主な変更内容
1	改定の概要
	（1）第 1 部 受信時の制御方式（限定受信方式）における、IC カードの小型化に係る規定の追加 （2）誤記訂正
2	主な変更内容
(1) 関連	第 1 部「受信時の制御方式（限定受信方式）」 4.3.2.2「端子の位置と形状」 ・通常の IC カード形状に加えて、Plug-in SIM の形状を追加記載 ・参照している ETSI 規格を 1.3.2「関連文書」に追加記載 4.3.2.3「電気信号及びプロトコル」 ・受信機が Plug-in SIM 形状の IC カードに対応する場合に、5V 単一電源（Class A）仕様に加えて、3V 単一電源（Class B）仕様も許容する規定を追加 ・通常 IC カード及び Plug-in SIM 形状 IC カードの電源仕様の規定を追加 - 通常 IC カード：5V 単一電源（Class A）仕様、又は 5V 及び 3V 電源（Class AB）仕様 - Plug-in SIM 形状 IC カード：5V 及び 3V 電源（Class AB）仕様 5.2.3.1「受信機に関わる仕様」 ・CA インタフェース（IC カードインタフェース仕様）の準拠規定を、4.3.2 項「IC カードインタフェース仕様」の適用に変更 参考 4「CA インタフェースに関する補足説明」 ・4.3.2.3 項の規定の再掲に伴う同内容の規定の追加記載 ・Plug-in SIM 形状の導入に伴う、Plug-in SIM 形状 IC カードと対応受信機の電源仕様に関する説明の追加
(2) 関連	まえがき　別表 ・記載漏れの追加と、特許が有効となる版数の誤記訂正

（詳細は、規格会７３－１２の改定履歴表を参照のこと。）

アスペクト比 16：9 の画面におけるセーフティーゾーン技術資料の改定の概要
（TR-B4　1.1 版から 2.0 版）

現行 TR-B4 1.1 版に対する改定の概要及び主な変更点は以下のとおりです。

No.	改定の概要と主な変更内容
1	改定の概要 (1) 第 3 章 現行セーフティゾーンの重要情報範囲を水平・垂直方向とも 90%に変更 (2) 第 4 章に、16:9 の CRT 受像機が少なくなった段階で運用することを前提にしたターゲットセーフティゾーンの規定を追加 (3) 今回の改定に関する背景、審議経過を追加 (4) 表紙の技術資料名を含め「セーフティーゾーン」を「セーフティゾーン」に変更
2	主な変更内容
(1)関連	第 3 章 アスペクト比 16：9 の画面におけるセーフティゾーンの規定に関して以下の変更を行った。 - 情報範囲 93%、安全範囲 80%は現規定のままであるが、重要情報範囲は水平 88%、垂直 89%から水平・垂直とも 90%に変更（ITU-R 勧告案、SMPTE 規格案と合わせることを優先） - 1125 i 方式に関しては、有効走査線数 1035 本から 1080 本に変更、525 i 方式に関してはデジタル放送を考慮し有効走査線数 480 本に変更、525 i レターボックスの規定を削除、720 p 方式、1080 p 方式を追加 - 各範囲の表記方法として百分率の他に、サンプル数（サンプル番号）、ライン数（ライン番号）での表記に変更 - 注 1, 注 2, 注 3 を追加
(2)関連	「第 4 章 アスペクト比 16：9 の画面におけるターゲットセーフティゾーン」の全部を新たに追加した。 - ターゲットセーフティゾーンとは、アスペクト比 16：9 の CRT 受像機が少なくなった段階で運用することを前提に規定するセーフティゾーン - 水平方向・垂直方向とも、情報範囲は 97.5%、重要情報範囲は 95%。 これに対応する映像サンプル数（サンプル番号）、ライン数（ライン番号）も表示
(3)関連	解説に「A1.平成 21 年 3 月改定時の内容に関する説明」を追加した。 - 背景に加えて、審議経過として、番組制作・放送側からの情報収集、セーフティゾーンの規定が持つ意味、国際動向、アスペクト比 4:3 の CRT 受像機へ接続する簡易チューナ・セットトップボックス、ターゲットセーフティゾーン、想定されるターゲットセーフティゾーンへの移行時期とその方法について記載

No.	改定の概要と主な変更内容
(4)関連	TR-B22 の表紙の技術資料名及び文中の「セーフティーゾーン」の表記を「セーフティゾーン」に変更、統一した。

（詳細は規格会７３－１３の改定履歴表を参照のこと）