

Document No:	<b>GSC16bis-IPR-07</b>
Source:	Association of Radio Industries and Businesses
Contact:	Tadaaki YOKOO
GSC Session:	IPR Working Group
Agenda Item:	4.1

# Activities of ARIB - Standardization and IPR -

**Tadaaki YOKOO**  
**Executive Director, ARIB**

- 
- ◆ **About ARIB**
  - ◆ **Standardization Activities**
  - ◆ **IPR Activities**

A decorative graphic on the left side of the slide consists of several overlapping squares in shades of blue and grey, arranged in a grid-like pattern. A large, solid blue horizontal bar spans across the middle of the slide, containing the main title.

# About ARIB

## ■ Organization

- A general incorporated association and non-profit standards development organization (SDO), based in Tokyo, Japan.
- Dealing with radio technologies in the fields of both telecommunications and broadcasting.

## ■ Establishment

- 15 May 1995 as a public service corporation
- By merging two organizations, RCR and BTA, who had worked on standardization from 1985 to 1995.

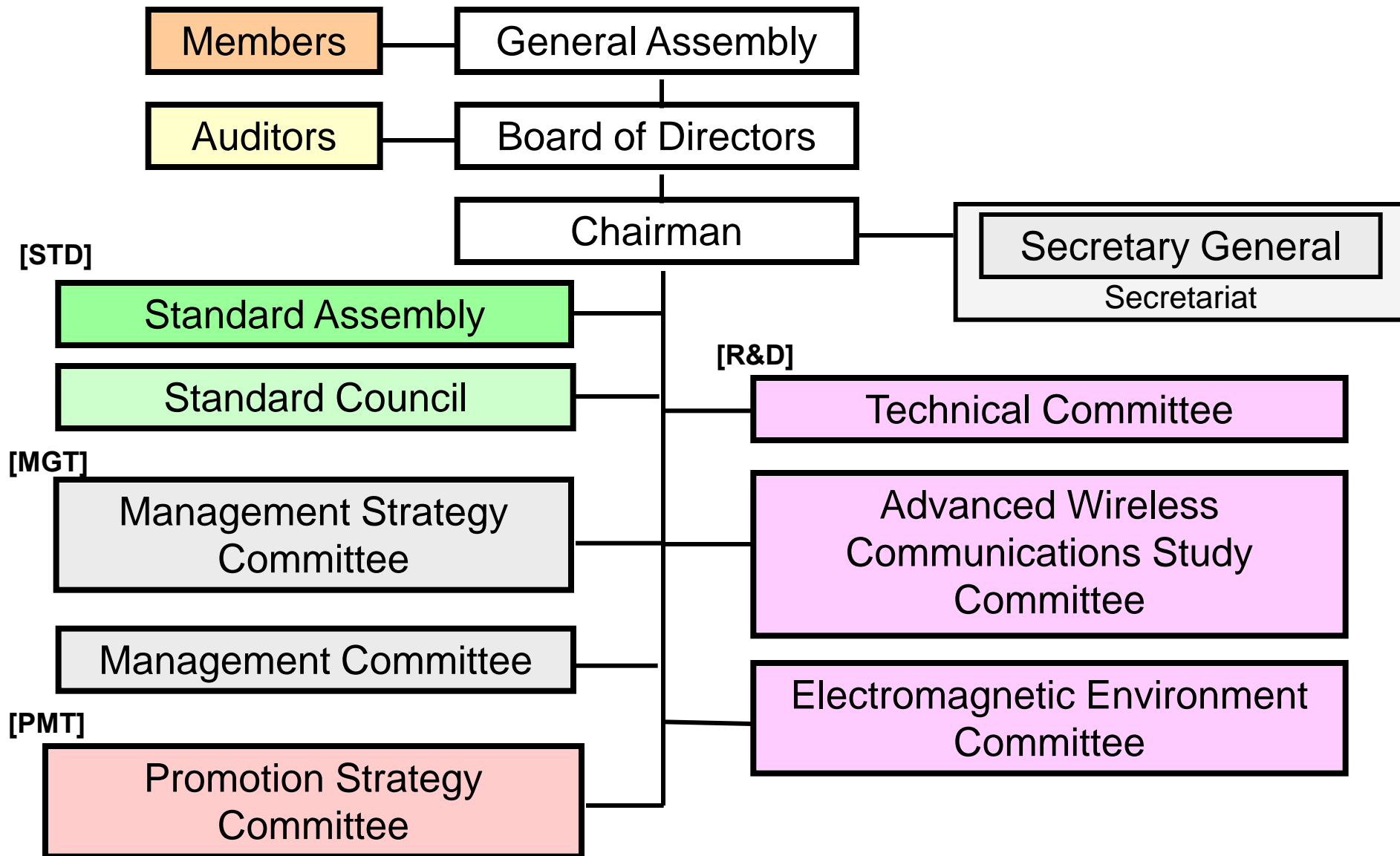
RCR : Research & Development Center for Radio Systems

BTA : Broadcasting Technology Association

## ■ Members (as of 1 September 2012)

- Regular members : 226
  - Telecom Operators : 11
  - Broadcasters : 23
  - Manufactures :160
  - Others : 32
- Supporting members: 2

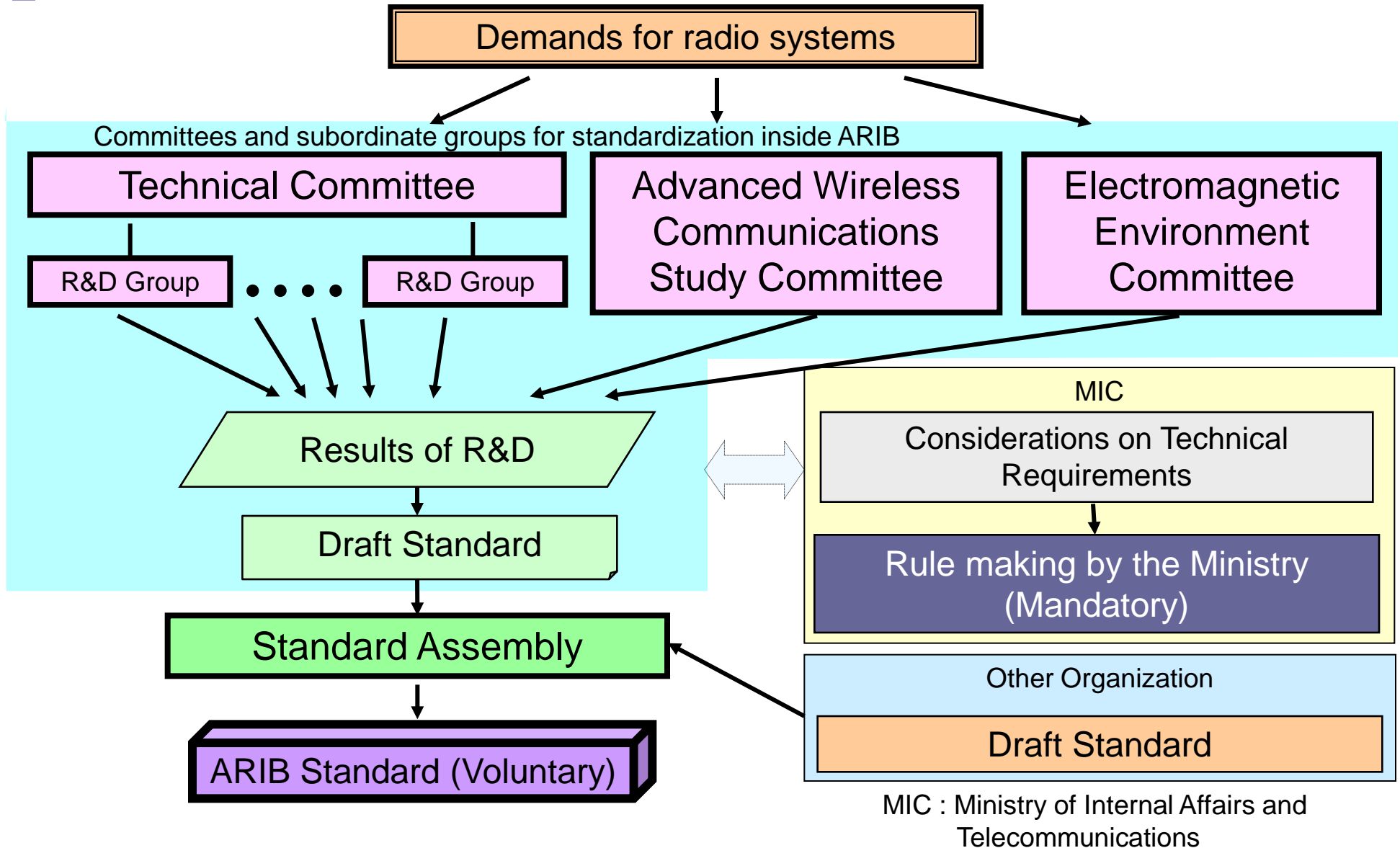
# Organization of ARIB



A decorative graphic on the left side of the slide consists of several overlapping squares in shades of blue and grey. The largest square is dark blue and contains the title text. Other squares in lighter blue and grey are positioned behind and to the left of it.

# Standardization Activities

# ARIB's R&D and Standardization



## ■ Establishment

May 1995

## ■ Membership

- Open to any entity, organization and person
- Independent from ARIB membership
- Members : 180 (as of 1 September 2012)

▪ Telecom Operators	:	8
▪ Broadcasters	:	18
▪ Manufactures	:	135
▪ Others	:	19

## ■ Holding period

3 - 4 times a year



# Outcome from Standard Assembly

## ■ ARIB Standard (STD)

- technical specification not covered by technical regulation  
e.g. communication protocol, sensitivity, bit error rate

## ■ ARIB Technical Report (TR)

- technical information not included in Standard

## ■ Number of STD and TR \*      As of 1 Aug 2012 (1 Aug 2011)

	STD	TR
Telecommunications	90 (84)	22 (20)
Broadcasting	62 (61)	41 (44)
General	0 ( 0)	1 ( 1)

\* Not including suppressed STD/TR

## ■ Free Download      Since 21 April 2008

<http://www.arib.or.jp/english/html/overview/index.html>

A decorative graphic on the left side of the slide consists of several overlapping squares in shades of blue and grey. A large, solid blue horizontal bar spans across the middle of the slide, containing the main title.

# IPR Activities

# History of activities on IPR

Month Year	Activity
Sep 1995	<b>IPR Guidelines established</b> “Guidelines for Treatment of Industrial Property Rights in connection with the ARIB Standard”
	<b>IPR Working Guidelines established</b> “Working Guidelines for Treatment of Industrial Property Rights in connection with the ARIB Standard”
Mar 2000	<b>IPR Working Guidelines Revised</b> (“Comprehensive Confirmation Form” added)
Mar 2011	<b>Copyright Guidelines established</b> “Guidelines for Treatment of Copyrights in connection with the ARIB Standard”
Sep 2011	<b>Copyright Guidelines revised</b> (Ownership of material copyright clarified)
Apr 2012	<b>IPR Database launched</b>
Jul 2012	<b>IPR Guidelines Revised</b> (Confirmation Form simplified)

## ■ IPR Guidelines

- Specify basic principles for handling IPR
- IPR is defined as “Industry Property Rights”.
- Treatment
  - Selection for Essential IPR:
    - Option 1 (Royalty Free),
    - Option 2 (Reasonable And Non-Discriminatory) or
    - Option 3 (Others) should be selected.
  - Inclusion of IPRs in Standards:
    - No responsibility of ARIB
  - Dispute regarding IPRs:
    - No liability of ARIB
- Procedure
  - Submission of “Confirmation Form”
  - Submission date

## ■ IPR Working Guidelines

- Essential IPR shall be treated as provided in the IPR Guidelines with no other terms and conditions.
- Treatment of “Non-Essential IPR” is excluded in the IPR Guidelines.
- A potential holder of Essential IPR who is not able to submit a “Confirmation Form” by the submission date can submit a “Comprehensive Confirmation Form”.
- The submitter of the “Comprehensive Confirmation Form” should submit the “Confirmation Form” within six months to declare the Essential IPR.

	License Grant	Submission		Standardization
		Confirmation Form	Attachment	
Option 1	Free	Mandatory *	Patent No. / holder	Yes
Option 2	RAND	Mandatory *	Patent No. / holder	Yes
Option 3	No	Mandatory	Patent No. / holder + Detailed Info.	No

\* Comprehensive Confirmation Form can be an alternative without specifying patent No. / holder

# Submission of IPR

## ■ ARIB Standard and IPR (1 Aug 2011 – 1 Aug 2012)

	Telecom		Broadcasting		Total
	Established	Revised	Established	Revised	
Standard	6	25	2	19	52
IPR	12	2,436	25	27	2,500

## ■ Number of IPR for major ARIB Standard

Code	Standard Name	IPR * (comprehensive)
STD-T105	WirelessMAN-Advanced System	89 (3)
STD-T104	LTE-Advanced System	781 (9)
STD-B55	Transmission System for Area-limited Digital Broadcasting	21 (2)
STD-B31	Transmission System for Digital Terrestrial Television Broadcasting	38 (8)

\* All IPRs are Option 2, including potentially Essential IPRs declared by “Comprehensive Confirmation Forms”.

## ■ Search

### A) Search by standard number and its version

- Select the "standard number" and "version number", then click the "Search" button.
- If you specify version number (2.0, for instance), a list of IPRs declared when making the version (2.0) is displayed.
- If you select "all" in version column, a list of all IPRs relating to the selected standard is displayed.

### B) Search by free words

- Enter your free words in the free words column, then click the "Search" button.
- A list of IPRs with the words you entered is displayed.

## ■ Currently available in Japanese only

<http://www.arib.or.jp/tyosakenkyu/sakutei/IPR/index.php>

The screenshot shows two search methods:

- A) 規格番号・版数による検索 (Search by standard number and version):** This section includes a "規格番号" (standard number) pull-down menu, a "版数" (version number) pull-down menu, and a "検索" (Search) button. Annotations point to the "規格番号" pull-down as "standard number pull-down", the "版数" pull-down as "version number pull-down", and the "検索" button as "Search".
- B) フリーワード検索(検索対象は「発明の名称」欄) (Free word search):** This section includes a text input field for "free words" and a "検索" (Search) button. Annotations point to the input field as "free words" and the "検索" button as "Search".



- i. The author of the Standard (STD) and the Technical Report (TR), including translation, is ARIB. ARIB can use STD/TR and sublicense them to any third party.
- ii. Members shall acknowledge the above condition in (i) when submitting the material, such as texts and graphics excluding software, to the Standard Assembly. The ownership of copyright shall be retained.
- iii. Non-Members should submit the material on the condition that they agree with provision (i).
- iv. When a quotation from a third party is made regarding the material, the origin should be notified.

- **Study for revisions to the IPR Policy in response to new trends and member needs**
  
- **Possible revision items**
  - Irrevocability of RF (Royalty Free) or RAND (Reasonable and Non-Discriminatory) Declaration
  - Transfer of IPR Ownership
  - Treatment of Patent Family
  - Software Copyright Guidelines and Trademark Guidelines.

**Thank you for your attention.**