#### TTA PG302 status report

Document Number:

	IEEE L802.16-05/002						
Date S	Submitted:						
	2005-01-25						
Source	e:						
	Panyuh Joo, Yung Hahn	Voice:	[Telephone Number]				
		Fax:	[Fax Number]				
Venue	2:						
	Session #35						
Base l	Document:						
Purpo	se:						
	Introduce the overview of recent TTA PG302 standard status.						
Notice:							
	This document has been prepared to assist IEEE 802.16. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.						
Release	:						
	The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE's name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE's sole discretion to permit other to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.16.						
IEEE 80	02.16 Patent Policy:						

The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures <a href="http://ieee802.org/16/ipr/patents/policy.html">http://ieee802.org/16/ipr/patents/policy.html</a>, including the statement "IEEE standards may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the patent holder or applicant with respect to patents essential for compliance with both mandatory and optional portions of the standard." Early disclosure to the Working Group of patent information that might be relevant to the standard is essential to reduce the possibility for delays in the development process and increase the likelihood that the draft publication will be approved for publication. Please notify the Chair <a href="mailto:chair@wirelessman.org">mailto:chair@wirelessman.org</a> as early as possible, in written or electronic form, if patented technology (or technology under patent application) might be incorporated into a draft standard being developed within the

IEEE 802.16 Working Group. The Chair will disclose this notification via the IEEE 802.16 web site <a href="http://ieee802.org/16/ipr/patents/notices">http://ieee802.org/16/ipr/patents/notices</a>>.

-

# TTA PG302 status report

Jan. 24, 2005

# 0. Wireless Internet Operators to Be Picked

Republic of Korea plans to select high-speed wireless Internet operators next February that will become licensed for faster Internet access via mobile devices using a locally developed wireless standard, the Ministry of Information and Communication said Thursday.

The ministry said the guidelines for awarding the high-speed wireless Internet licenses should be completed by the end of September and that commercialization of the new service may start in 2006.

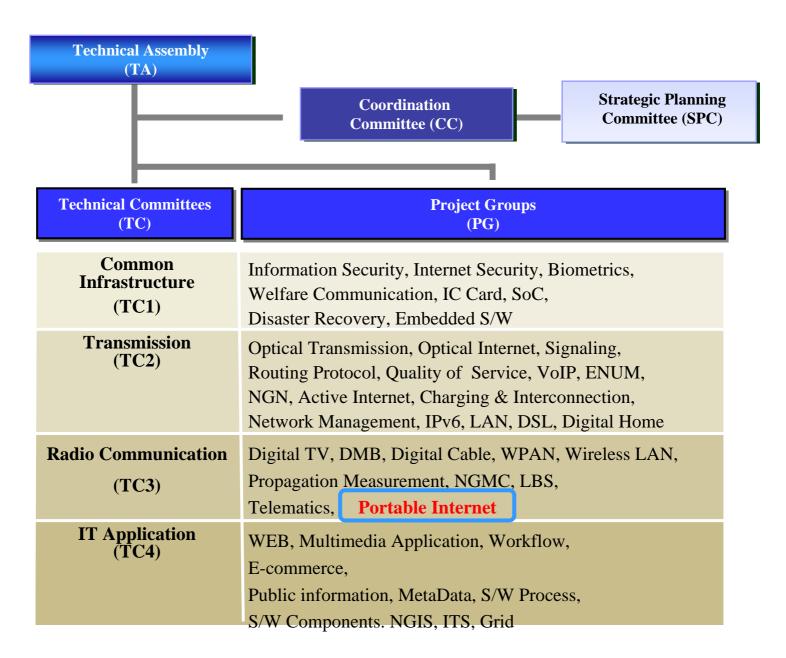
The new service, which is billed as a "WiBro" wireless service and formerly known as 2.3GHz portable Internet, will allow speedy Internet connection to data and video with mobile gadgets such as cell phones and personal digital assistants.

Currently, several telecom companies including KT, SK Telecom, Hanaro Telecom and Dacom\* are vying to get business licenses for the high-speed Internet service.

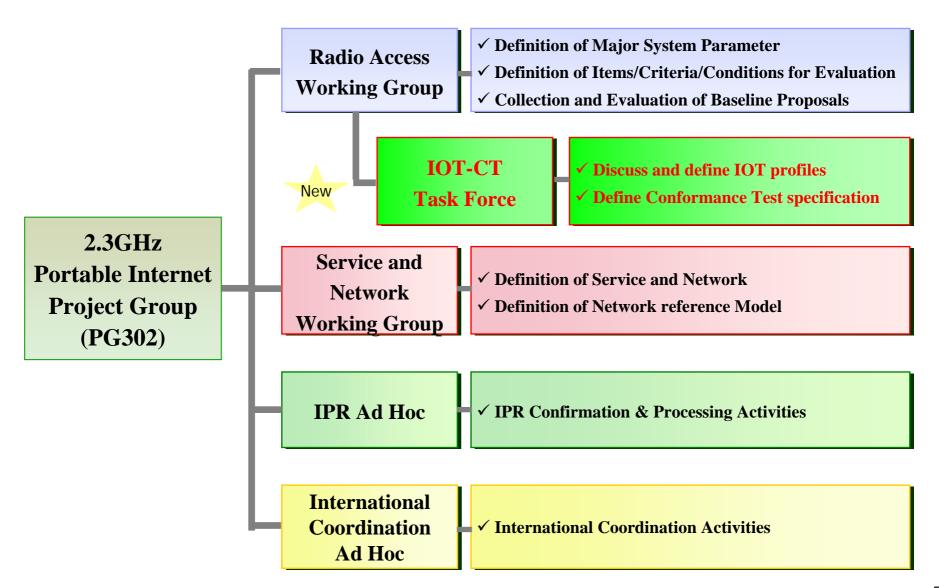
The ministry added it decided the IEEE 802.16, which includes Korea's home grown technologies, as the nation's WiBro standard.

07-29-2004 18:46

### I. Telecommunications Std Committee of TTA



#### II. Committee Structure and ToR of PG302



\* ToR : Terms of Reference

#### III. Establishment of PG302

#### Establishment of PG302 for WiBro standardization

- → Technical Assembly(TA) of TTA standardization committee approved the establishment of 2.3GHz Portable Internet Project Group(PG302, renamed from PG05) in June, 2003
- **○** The first meeting was held on 30 July, 2003 and The Chairman was elected.
- **○** The second meeting was held on 5 September, 2003 and approved the followings
  - The establishment of 2 Working Groups and 2 Ad Hoc
  - New TF established recently(2005.01)
  - The Goal of PG302 Activities & Timeline is as follows.

#### **Time** Goal (Phase 1 Standardization) 3Q 2003 Definition of Target Requirements - Minimum Service Requirements - Minimum System Requirements 4Q 2003 Preparation of the Draft Standard - Definition of major system parameters - Definition of items/criteria/conditions for Evaluation - Collection and Evaluation of Baseline Proposals - Selection of Proposed Baselines • IPR Confirmation and Processing Activities • International Cooperation Activities 1Q 2004 • Completion of Draft Standard Approval and Notification of Standard 2Q 2004

### IV. WiBro - Definition

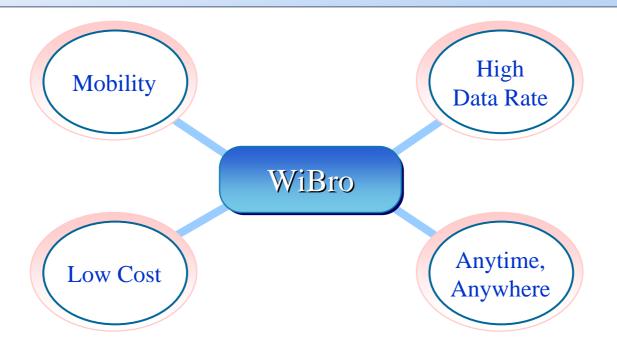
Definition

→ Portable Internet Service(WiBro) is to provide high data rate wireless internet access with PSS(Personal Subscriber Station) under the stationary or mobile environment, anytime and anywhere.

Reference

Portable Internet service was named as WiBro.

End of April, 2004, WiBro: Wireless Broadband



### V. Decision of PG302

### **Network Architecture of WiBro (Phase I) Public IP Network** HA **Operator's IP** Network $\mathbf{A}\mathbf{A}\mathbf{A}$ ACR: Access Control Router **ACR ACR** RAS: Radio Access Station **RAS** RAS RAS **RAS PSS**: Personal Subscriber Station

**PSS** 

**PSS** 

**PSS** 

**PSS** 

### VI. Decision of PG302 (cont'd)

#### **Progress**

- **→ PG302** 
  - selected two baselines for WiBro (March, 2004)
  - approved one of baselines as Draft (April, 2004)
- The Draft for WiBro in circulation to members of TTA.
  - May 3 ~ May 30, 2004 (during 4 weeks) / Done
- **PG302** selected the Draft as a Draft Standard for WiBro
  - June 7, 2004 / Done
- **○** Finally, The Draft Standard was approved as a Standard (phase I) for WiBro in Technical Assembly (TA) of TTA.
  - June 25, 2004 / Done
- Reopen phase I spec for discuss harmonization with 802.16
  - Dec 26, 2004/ Done
- **○** You may request for the Spec written in Korean through

following email address: <u>ibm686@tta.or.kr</u>

http://www.tta.or.kr/English/new/Main/index.htm

## VII. Future Plan of PG302 (Phase II Std)

Phase II Standardization for advanced WiBro will be started from 3Q 2004.

#### **Time**

#### Goal (Phase II Standardization)

3Q 2004

Definition of Service and System Requirements

- Determination of scope of technologies for improvements of system capacity
- Harmonization and collaboration with IEEE 802.16
- Preparation of detailed guideline for IPR Processing

4Q 2004

- Design of Evaluation Criteria of technologies for improvement of System Capacity
- Proposal and Evaluation of technologies for improvement of System Capacity
- Preparation of Evaluation Methodology for functional improvement for System
- Harmonization and Collaboration with IEEE 802.16
- IPR activities (Patent issue of factor technology, Patent Forum etc.)

1Q 2005

- Proposal and Evaluation of technologies for improvement of System Capacity
- Proposal and Evaluation of technologies for improvement of System Function
- Preparation of the Draft Standard
- Harmonization and Collaboration with IEEE 802.16
- IPR activities (Patent issue of factor technology, Patent Forum etc.)

2Q 2005

- Completion of Draft Standard
- Harmonization and Collaboration with IEEE 802.16
- IPR activities (Patent issue of factor technology, Patent Forum etc.)

### VIII. Requirement of WiBro

#### **Basic requirement of WiBro service**

The MIC announced the technical spec with 5 criterion

WiBro service should follow the following: IEEE 802.16-2004, 802.16eD5+a with 5 criterion

	0134	•	C	LL X, ID	•
<b>7</b>	( 'rife	110m	TOT	Wilkin	service
	OTT 100	NT TOTT	TOT	117770	BOT ATOO

**Duplexing** 

TDD (with BS sync)

**Channel Spacing** 

>= **9MHz** 

**Frequency Reuse Factor** 

1

Throughput (per user)

Min. DL / UL = 512 / 128 [Kbps] @60 [Km/h] (Cell Edge)

**Roaming** 

should be provisioned between all service providers