

Bluetooth/IEEE 802.15 Joint Meeting

Date/Time: 8Dec99, 1:30p to 2:30p

Venue: Bluetooth Development Conference 6-9Dec99 in LA

Purpose:

The goal of the meeting was to provide the Bluetooth SIG leadership corps an opportunity to meet with some of the IEEE leadership and discuss the latest information on the Bluetooth™ derived IEEE Draft Standard [P802-15/D0.6]

Agenda:

- Time Schedules (BT & IEEE)
- IEEE P802.15 Balloting Process (WG and Sponsor)
 - Bluetooth™ buy-in on process
- IEEE 802.15 Requests
 - Bluetooth™ SIG2 contacts
 - Early Information on Bluetooth™ 2.0
 - Test documents release to 802.15 as PICS Proforma

Brief Summary:

We had a good meeting with no controversial issues. Both groups are satisfied with the ongoing relationship.

We have agreement in principle on:

- Voting process and Bluetooth™ inputs to the comment resolution process
- Early exposure to Bluetooth™ release plans
- Formal designation of SIG2 representatives

Open item:

- Advanced information on content of subsequent releases

Action Items:

What	Who	When
Summary report of comments on IEEE 802.15.1 D0.6	Siep	27Dec99
Bluetooth™ commitment to proposed ballot comment resolution process	Kardach/ Bisdikian	Done
Review existing BSIG-IEEE Copyright License Agreement and make sure that it (1) covers the new IPR Pool as well as (2) the new SIG2 Promoters e.g., 3COM, Lucent, Microsoft, and Motorola.	Gifford/ Kardach	23Dec99
Decision on advanced information on content of subsequent releases	Kardach	31Dec99
Procedure or Mechanism for early notification of new updates/releases of Specification	Kardach/ Bisdikian	tbd
Test documents release to 802.15 as PICS Proforma	Kardach	tbd

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Attendees:

Bluetooth™

Name (title)	Company	email
Warren Allen	Toshiba	warren.allen@tais.toshiba.com
Tom Baker	Lucent	twbaker@lucent.com
Chatschik Bisdikian (chair IEEE/BT WG)	IBM	bisdik@us.ibm.com
Mike Foley	Microsoft	mfoley@microsoft.com
Jon Inouye	Intel	jon.w.inouye@intel.com
James Kardach (Bluetooth PM)	Intel	jim.kardach@intel.com
Peter Lee	IBM	leep@us.ibm.com
Dave Leeper	Motorola	dave.leeper@mot.com
Thomas Muller	Nokia	thomas.t.muller@nokia.com
Jan Ritmeester	Ericsson	jan.willem.ritmeester@erh.ericsson.se
Tod Sizer	Lucent	ts2@lucent.com
Nick Thomas	3Com	nick_thomas@mtn.3com.com
Mike Wehrs	Microsoft	mwehrs@microsoft.com

IEEE 802.15:

Name	Company	email
Bob Heile (chair)	GTE	bheile@bbn.com
Ian Gifford (vice chair)	M/A-COM	giffordi@ieee.org
Tom Siep (Tech Editor)	TI	siep@ti.com

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Details

On December 8, 1999 a meeting was held between members of the Program Management of Bluetooth™ and some of the leadership of IEEE 802.15. The purpose of the meeting was to introduce the IEEE leadership to the leaders of the SIG and to address any logistical issues that currently exist or are anticipated.

Time Schedules (BT & IEEE)

We presented historical and projected timelines for standardization of Bluetooth™ to the Program Management.

- ~Jun97 - Idea for standard
- Mar98 - Find Sponsor
- Feb99 - Submit PAR
- Mar99 - Approve PAR
- Jul99 - Organize working group
- Sep99 - Develop draft standard
- Nov99 - Ballot draft standard
- Jan00 – 1st comment resolution
- Mar00 – Final comment resolution
- Jul00 - Approve draft standard
- Dec00 - Publish approved standard

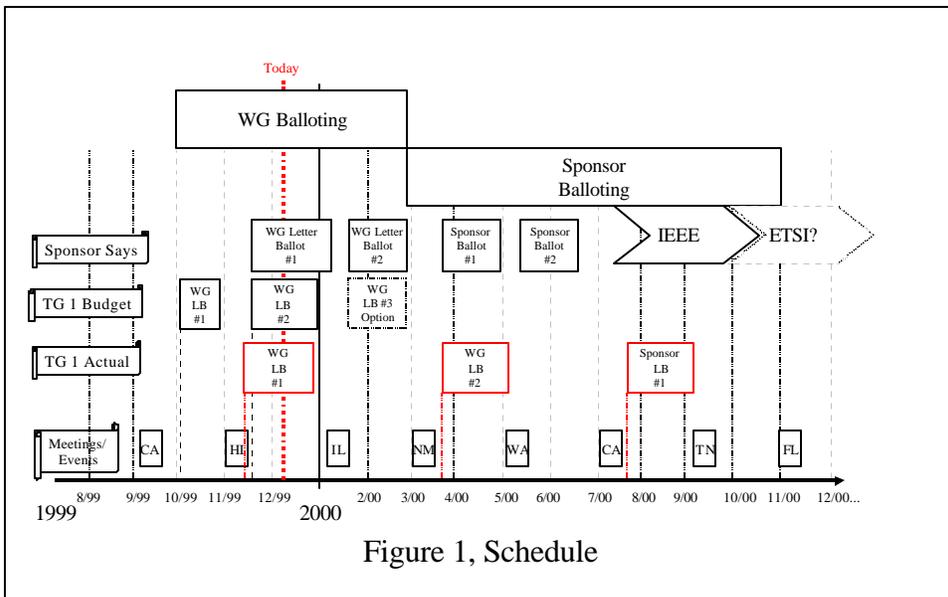


Figure 1, Schedule

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IEEE P802.15 Balloting Process (WG and Sponsor)

We presented an overview of the balloting process and where we are in it. Figure 2 shows the overview. Currently we are in WG Letter Ballot.

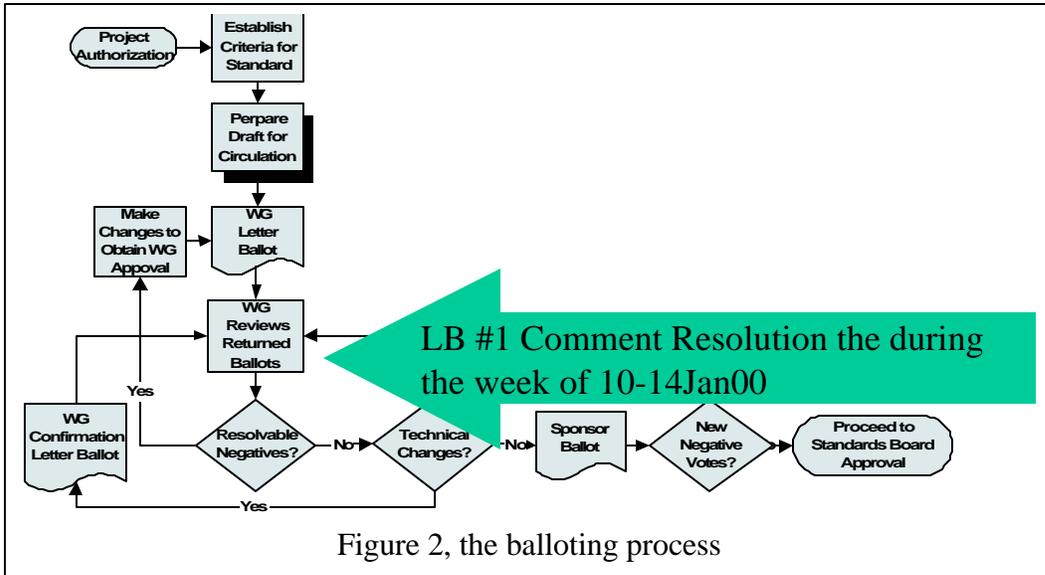


Figure 2, the balloting process

This review and resolution process is common for all IEEE standards creation. In 802.15 we are augmenting this process with additional reviews and inputs from the Bluetooth™ SIG. Figure 3 shows that the database created as a result of comments gathered as part of the voting process will be shared with Bluetooth™.

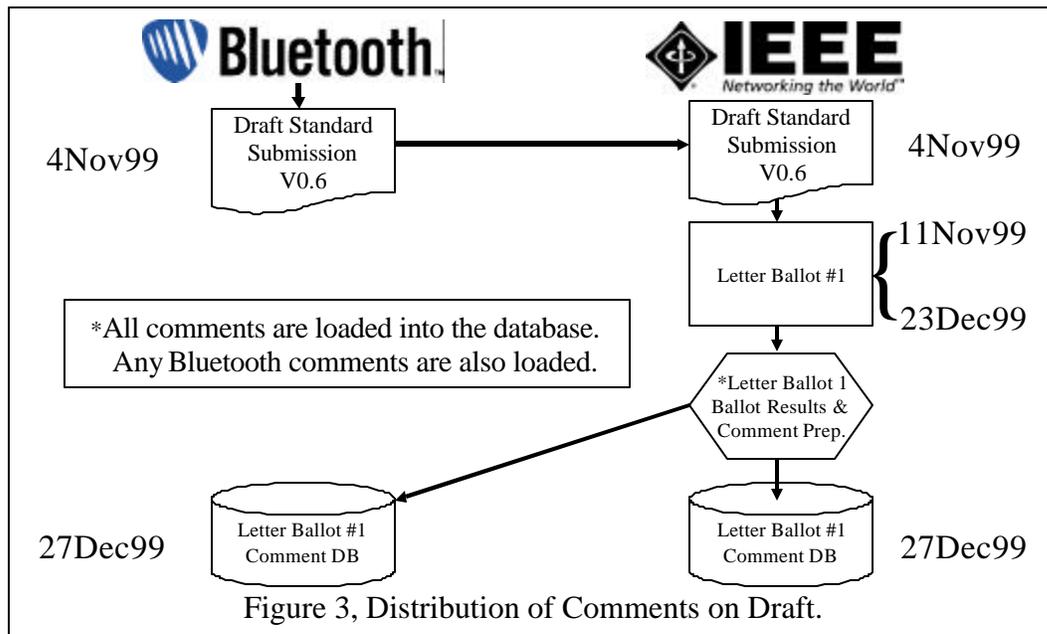


Figure 3, Distribution of Comments on Draft.

Figure 3 continues the process with Bluetooth™ providing written feedback on the comments lodged against the Draft. These comments will be merged with the proposed

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resolution of the comments from IEEE 802.15 voters to create a summary report, shown in Figure 4. Assuming no major disagreements in the two sets of statements, the current Draft will be updated with these resolutions and then put out for review by the SIG.

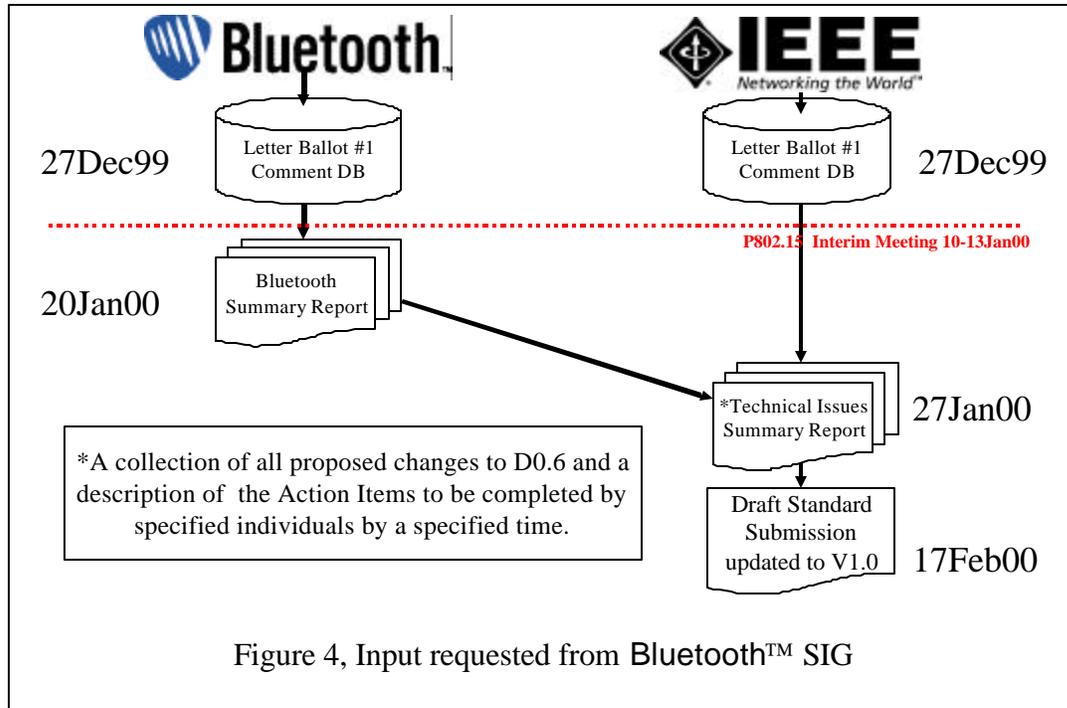


Figure 5 shows the decision process for issuing version 1.0 of the Draft. Since it is scheduled to be completed very near to the March meeting of IEEE 802, it is unlikely that we will be able to maintain our original goal of having a final version of the Proposed Standard for that meeting. This slip may result in the production of the final version of it for the July IEEE 802 meeting.

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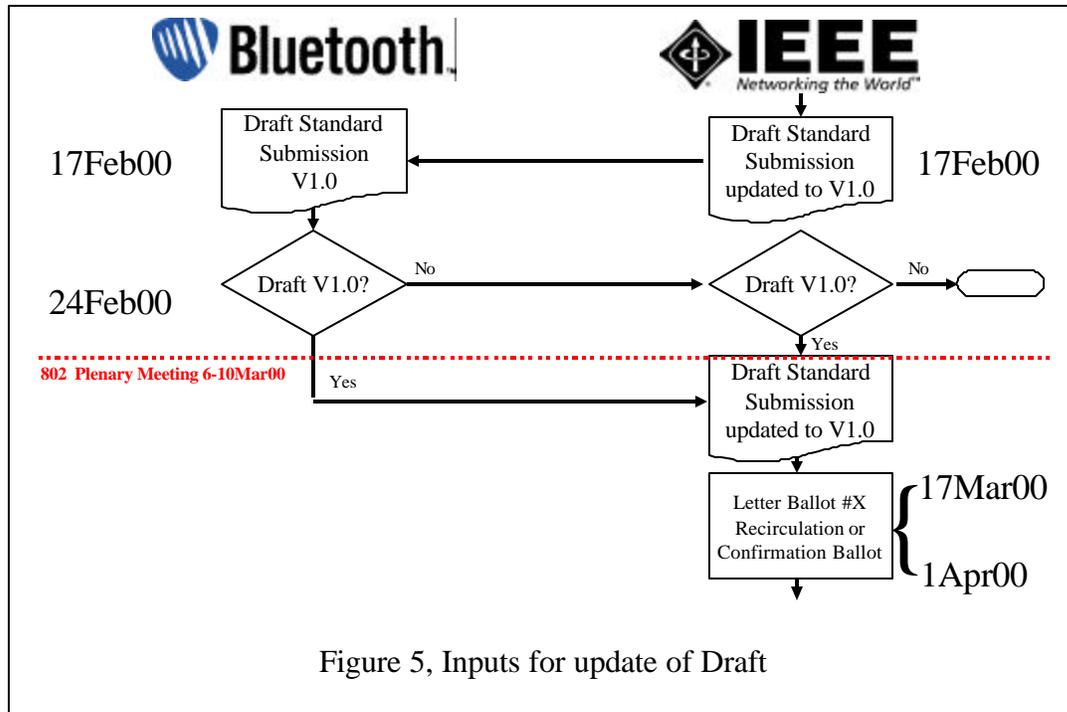


Figure 5, Inputs for update of Draft

IEEE 802.15 Requests

In addition to requesting active and official participation in the 802.15 comment resolution process, we also made some requests for specific coordination in three areas.

Bluetooth™ SIG2 contacts

Although there is no official “vote” by members of the SIG, 802.15 feels it is required to have the active participation of all the Promoter companies. We requested that the new Promoters (Microsoft, Lucent, Motorola, and 3Com) designate their official contacts to the IEEE.

Early Information on Bluetooth™ 2.0

Two types of early information on changes to the current specification were requested:

- 1) Timing
- 2) Content

The timing information is needed to prevent unnecessary delay in the update of the 802.15.1 Standard when the Bluetooth™ Specification is updated. The IEEE has a procedure that can take up to four or five months to authorize changes to an existing Standard.¹ The appropriate procedures can be executed in parallel to the SIG work if the IEEE knows that a change is to be made in the Specification in a certain time frame.

¹ After the appropriate changes are made, it should take no longer than three months to approve and update the Standard.

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Advanced information on content information is important for several reasons. It provides a perspective on proposals brought before the Working Group by outside parties, allows planning of the document structure over time, and may provide a method for increased reviewing of new features. It is understood that this type of information may have to be limited to a smaller, more controlled group, such as the currently existing Bluetooth™/IEEE Working Group.

Test documents release to 802.15 as PICS Proforma

The current version of the 802.15 Draft Standard does not have a complete Protocol Implementation Conformance Statement (PICS) proforma. The newly released testing specification appears to be a close match for this IEEE requirement. According to Jim Kardach, there may be a requirement for a separate agreement to cover copyrights for this set of documents, since they were done outside the standard Bluetooth™ agreement.

Next Steps

No specific “next steps” were noted in the meeting, other than the items listed in the Action Items section, above.

The IEEE 802 would like to thank the Bluetooth SIG for submitting their Specification for standards-making. We look forward to a long partnership.