Project	**IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>**
Title	**Clarification on CDMA Codes TLV**
Date Submitted	**2007-07-11**
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Re:	IEEE 802.16j-07/019: "Call for Technical Comments regarding IEEE Project P802.16j"
Abstract	This proposal clarifies the CDMA Codes TLV location and its content.
Purpose	Discuss and adopt proposed text.
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Clarification on CDMA Codes TLV

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1. Introduction

This contribution proposes some editorial and technical fixing for RS CDMA Codes TLV contained in subclause 11.19.1:

- CDMA Codes TLV should be under RNG_RSP, which is subclause 11.6, not 11.19. This is also mentioned in subclause 6.3.2.3.6.
- Added a bitmap for indicating which of the RS CDMA Code is contained in the TLV. This TLV may not carry all of the codes in one instance. This allows size saving.
- Dedicated periodic ranging can be added as another entry in the CDMA code list.

2. Specific Text Change

[Do the following changes in 6.3.10.3.5, starting from Page 104 line 16]

The RS may be assigned several unique CDMA ranging codes for ~~the purpose of supporting various ranging Processes. The codes that may be assigned to the RS to~~ communicat~~e~~ing ~~different~~ the following requests to the MR-BS~~:~~ ~~are:~~
1) ~~Indicate that the~~ RS needs BW on its access downlink (for SS) ~~on which to transmit~~for sending a RNG-RSP message~~with "continue" status~~. In this case, the RS does not send RS BR header to the MR-BS.
2) ~~Indicate that the~~ RS needs a BW allocation on the relay uplinks along the path to the MR-BS ~~on which to Transmit~~for sending a BW request message.
3) ~~Indicate that the~~ RS needs BW on its relay downlink (i.e. to its ~~downstream~~ subordinate RS) ~~on which to~~for ~~transmit~~ sending a RNG-RSP message ~~with "continue" status~~. In this case, the RS does not send RS BR header to the MR-BS.
4) ~~Indicate that the~~ RS needs BW allocations on the relay uplinks along the path to the MR-BS ~~on which to~~for forwarding a BW request header
5) RS needs BW allocations on the relay uplinks for sending HARQ error report
6) RS to perform dedicated periodic ranging

[Do the following changes onPage 17 line 11]

RS CDMA Codes TLV (see 11.~~19~~.6)

[Change 11.19.1 as follows]

~~11.19.1 CDMA Codes TLV~~

[Move the following in Table 367(.16e)/Table 616(Rev2):]

Name	Type (1 byte)	Length	Value
RS CDMA Code~~s~~	TBA~~-~~	~~4~~Variable	The first byte, CDMA Code Index, indicates which RS CDMA code is present in the TLV. - Bit #0: Ranging Request for SS - Bit #1: Forward a Bandwidth Request Message from RS - Bit #2: Ranging Request for RS (Continue) - Bit #3: Forward a Bandwidth Request Header from RS - Bit #4: Resource Request for HARQ Error Report(UL) - Bit #5: Dedicated periodic ranging code The subsequent bytes carry one byte ranging code for each of the bit set in the above bitmap and in the following

			order: The TLV carries 4 byte ranging code in the following order - Ranging Request for SS (Continue) - Forward a Bandwidth Request Message from RS - Ranging Request for RS (Continue) - Forward a Bandwidth Request Header from RS - Resource Request for HARQ Error Report(UL) - Dedicated periodic ranging code
Transparent MR system CDMA Code	T BD	1	The TLV carries 1 byte ranging code in the following order: - Dedicated periodic ranging code