

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	SAP Action Item	
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Re:	Action item re: comments 293, 301, 493	
Abstract	Start towards resolving the above comments	
Purpose	Resolve comments 293, 301, 493	
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SAP Action Item

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Background

At session 47 an action item was created to address comments 293, 301, 493 [2]. The Task Group decided that the best course of action was to turn the BS-BS and BS to other network entity messages (basically section 15.5 of [1]) into a SAP and primitives. The work done in 802.16g [3] was to be used as a reference.

In researching this action item two things became clear:

- 1) It will be a large task.
- 2) There are still some unanswered questions whose answer can impact a large quantity of work.

Suggested Way Forward

- 1) Certain concepts need to be viewed differently. The document should stop trying to define a database separately from a BSIS, separately from BTS-BTS communication. The document should simply define:
 - a. Those pieces of information a BTS needs to convey to entities outside its own network.
 - b. Those pieces of information a BTS needs to receive from entities outside its own network.
 - c. The exact specification of those pieces of information, including accuracy and precision where applicable.
- 2) Figure h28 on page 73 of [1] should be removed and the information merged into the updated Figure 1 from [3], where it belongs in section 1.3. An additional SAP, CX-SAP should be added.
- 3) The “container messages” CXP-REQ and CXP-RSP should be fully defined in sections 6.3.2.3.69 and 6.3.2.3.70 and the information for page 133, line 52 of [1] through page 135, line 28 should be merged into these sections.
- 4) The remainder of section 15.5 should be converted into proper SAP primitive definitions **and protocol diagrams** as is done for MSAP and C-SAP in chapter 14 of [3].
- 5) The messages in 15.5 need to be scrubbed for completeness and necessity. Most of the contents are ill defined. Some messages are never mentioned anywhere in [1] outside of section 15.5.

Suggestion is that the owners of the messages in section 15.5 implement the above changes using the next clean draft of the 802.16h amendment.

References

- [1] IEEE P802.16h/D2: *Air Interface for Fixed Broadband Wireless Access Systems Improved Coexistence Mechanisms for License-Exempt Operation*, Draft Standard.
- [2] IEEE 80216h-06_068r5: *Letter Ballot #24 Commentary file with resolutions from Session #47*.
- [3] IEEE P802.16g/D6: *Air Interface for Fixed Broadband Wireless Access Systems – Management Plane Procedures and Services*, Draft Standard.