**3GPP TSG-SA5 (Telecom Management) S5-113723**

**Meeting SA5#80,** **14 - 18 November 2010, San Francisco, USA**

**Source: WG Chairman**

**Title: Working procedure between SA5 and BBF, Version 11.0.0**

**Agenda Item: 4.4**

This document supersedes S5-103065 from SA5#74 15-19 Nov 2010.

This is the working procedure between SA5 and BBFHome for HNB and HeNB data. This procedure was agreed at SA5#73 23 – 27 Aug 2010, New Delhi, India, and was sent by LS to BBF as S5-102566 from SA5#73 meeting.

The latest approved version of this document is available in the SA5 guidelines folder: <http://www.3gpp.org/ftp/tsg_sa/WG5_TM/Guidelines/>

**Overview:**

This document defines the working procedure between 3GPP SA WG5 (hereafter “SA5”) and Broadband Forum BroadbandHome WG (hereafter “BBHome”) for the scope of H(e)NB data model specification.

This document was written primarily with focus on 3GPP Release 9 work. However, the scope of the collaboration was not limited to 3GPP Rel 9 and this document applies to all current and future collaborative work associated with H(e)NB between BBHome and SA5. The working procedure shall apply to all the LTE and UMTS data model definitions irrespective of how BBF decides to organize the documents now or in the future (applicable BBF documents are called TR-xyz in this document).

The general work flow for defining the H(e)NB requirements, information model and procedure flows is defined in figure 1 below.

*Figure 1: working procedure*



SA5 is the single focal point within 3GPP for 3GPP OAM input towards BBF data model publication of TR-xyz.

SA5 has expertise in the H(e)NB Information model definition and working with BBHome to tap into their TR-069 expertise is crucial to get the final data model produced in a timely fashion.

While SA5 recognises that working with BBHome for the final specification of the data model, based on SA5 consolidated input and information model definition, may introduce extra delay, SA5 expects that any delay can be minimized through the use of joint ad-hoc meetings organised when needed, having common delegates in the two for a and by defining a clear working procedure between the two forums.

**The proposed working procedure consists of the following:**

**Section 1: Initial publication of Rel 9 LTE HeNB data model as TR-196 amendment:**

SA5 completes the 3GPP TS 32.592 which will be “necessary and sufficient” for operating a HeNB. This will be considered 100% for the Rel 9 WI. SA5 will handover the Information model to BBHome. TS 32.592 information model defines the “semantics” of the data model parameters. This necessarily implies that TS 32.592 information model definition requires translation into BBF specification document format and conventions.

BBHome will take TS 32.592 as input, generate the XML model and publish TR-196 based on BBF’s normal working procedure. During this process, BBHome may discover that certain transformation in parameter definitions and additions of parameters to supplement the “semantics” in TS 32.592 are needed in order to conform to the BBF specification document format, style, and convention while generating the XML data model.

If the changes are syntax related or editorial, in order to be efficient and speedy, BBHome will make the change as they work through the XML model definition. If this impacts changes to 3GPP spec, or if there are questions a LS will be sent to be addressed in the next SA5 meeting.

If the change is technical and impacts parameter definition or requires rearrangement of the definition of the table, it is expected that BBHome will have an ad-hoc conf meeting with SA5 to resolve it. At this point a determination can be made whether a change should be made. Depending on what the impacts are a determination will be made if a contribution needs to come from SA5 or BBF. Open Note: Can we put something in place here to indicate if the change is minor we can make a decision on the call especially in the initial stages where there may be several minor corrections.

The straw ballot version will be sent back to SA5 with change bars. It extends the process but ensures SA5 gets to provide input into straw ballot changes.

Note: The time it takes for BBHome to publish the data model is directly proportional to how many issues BBHome finds.

**Open Item** : Straw Ballot of TR-196 Amendment may result in changes from BBHome company members. Coordination of this case will be handled in the same way as described in section 2 below.

**Section 2: Subsequent to the initial publication of the data model the following process will be followed (applicable to all TR-xyz content, current and future):**

2.1 Changes initiated within 3GPP SA5:

When proposals are submitted for changes to the H(e)NB information model into SA5 meeting, SA5 members will review them, and upon approval send a liaison statement to BBHome to request the change to be incorporated into the BBF data model. The Change Requests (CRs) sent by SA5 will follow the 3GPP CR format. The transformation to BBF specification format will be done by BBF.

2.2 Changes initiated within BBF BBHome:

When proposals are submitted as BBF member contributions into BBHome meetings that may result in changes to the 3GPP portion of the data model specification for HNB or HeNB, BBHome should document the submission per the normal BBF process.

The submission and BBFHome proposed resolution shall be sent to SA5 in a liaison or presented during joint meetings with SA5.

 SA5 shall review and evaluate the submission based on its technical merits and compliance with SA5 requirements and respond back to BBHome in liaison indicating the results of the SA5 evaluation within 30 days of the next SA5 meeting or within 90 days of receipt, whichever occurs first.

 If the response from SA5 is negative and the objections pertain to the data model specification for HNB or HeNB, BBHome should honour the SA5 request to reject the submission, subject to any applicable constraints based upon the formal working procedures of BBF.

If the response from SA5 is positive or no response from SA5 has been received within the time intervals indicated above, then the normal BBF working procedures for addressing comments should be followed.

In order to ensure accuracy between SA5 requirements and the ongoing data model work, SA5 requests BBHome that tracking information be maintained and made available to SA5 by the editor of the BBF data model. The tracking information will map the data model parameters to SA5 requirements or information model. SA5 and the BBHome will work together to ensure that the processes to maintain this tracking information are implemented in a manner that avoids incurring excessive or unnecessary overhead in the BBF or 3GPP specification development processes.”

**Section 3: Some rules for modifying/republishing the BBF specs:**

Changes in new amendments to published specifications are to be done based on the principle of BBF’s core general process – if a mistake is found in the existing specification, it can be updated to correct the error in Corrigendum which will replace the original document. The decision to create and publish a Corrigendum document will be by taking the nature of the changes required and extent of its impact from the perspective of preserving backward compatibility into consideration.

A removal of an object/attribute from TR-xyz is marked DEPRECATED or OBSOLETED (per TR-106 issue 1 amendment 3, Section 2.3, 2.4). In 3GPP SA5 specifications (e.g., 32.582/32.592), if applicable, the same item will be removed and an indication added that the removed item is not applicable for 3GPP.

Informative clarifications that assist with the interpretation and usage of management objects (e.g., Appendix) do not affect backward compatibility and are therefore generally acceptable.

Adding new parameters and objects is generally acceptable.

SA5 should make reference to BBF Technical Reports whenever possible, rather than duplicating the text into 3GPP specifications.

This will reduce the likelihood that specifications will become out of sync when revisions are made in the future by either organization. If specific situations arise where BBHome or SA5 has consensus that the best course of action is to duplicate portions of a specification from the other organization, this can be discussed on a case-by-case basis.

**Document Sharing**

In some cases, it will be necessary for SA5 and BBHome to share unpublished documents (e.g., contributions, draft specifications, working texts, planning and coordination documents, etc.).  When SA5 shares a 3GPP document or contribution with BBHome, there are no serious issues since all 3GPP documents, drafts, and contributions are freely available on the 3GPP website.  However, BBF does not make all internal documents or contributions available on the open internet.  In the case where BBHome desires to share a private unpublished document with SA5 for working purposes (i.e., BBHome is willing to make the document available to SA5 member companies), SA5 will distribute the document on a local meeting server at SA5 face-to-face meetings, but will not make those files available on the 3GPP public internet site. (in case SA5 members need access to such documents outside of the SA5 face-to-face meetings, those SA5 members will request the document from the SA5 chair or the SA5/BBF liaison officer via email). It is also possible for BBHome to approve for a particular unpublished document to be submitted by some 3GPP member company as a normal 3GPP contribution; in this case, the document will appear on the 3GPP website as a contribution.  However, this should not be done by 3GPP member companies without explicit approval by BBF.

**SA5 and BBHome joint calls**

Joint conference calls between SA5 and BBHome will be conducted based on the mutual consent between the two WGs. The exact schedule and agenda will be decided as-needed basis dependent on the specific needs and circumstance.

SA5 and BBHome joint calls will not be conducted as official meeting by either organization. Note: By participating in the call, the participants are not considered bound by any policies, procedures, guidelines, or rules governing intellectual property (IPR) generally, and specifically the potential licensing and/or disclosure obligations thereof.

BBF Timeline

1. Delivery of Information model to BBF based on the agreed timeframe.
2. Conversion from SA5 Information Model into XML/HTML for review – Editors to think about

            Entry criteria: Delivery of Information model from SA5

            Exit criteria: Validating XML that passes the TR-069 XML validation tool

Will also catch a lot of semantic/syntactic errors

Resource: Editors

1. Review for consistency of Information Model

            Entry Criteria: XML/HTML Data Model

            Exit Criteria: BBF and SA5 acceptance of changes – meets TR-069 requirements and SA5 Requirements

Conducted in BBHome calls

Supported by SA5 calls as needed  (process described in document)

            Resource: BBF people, supported by SA5 people

1. Straw ballot XML/BBF document generation

            Entry Criteria: Agreement and acceptance of all data model changes

            Exit Criteria: Agreement to start Straw Ballot

            Somewhat parallel with Review, assuming resources available to update as changes are made

All changes agreed during review and collaboration w/ SA5 incorporated

            Resource: Editors, BBF people, supported by SA5 people

1. Straw Ballot Comment Period

            Entry Criteria: BBF Working group agrees document ready for straw ballot

            Exit Criteria: Straw ballot Deadline

Final content contributions

1. Straw ballot comment resolution (occurs on an interim call)

            Entry Criteria: Termination of Straw ballot voting date

            Exit Criteria: All straw ballot comments resolved (rejected or accepted)

Decide whether to accept/reject and how to incorporate all straw ballot comments – note that some of these may result in further questions to SA5 or open issues

            Resource: Editors, BBF people

1. Re-circulate any proposed changes back to SA5 for approval/veto (use SA5 exploder/use bi-weekly calls)

            Entry Criteria: Straw ballot comment resolution (or decision to see SA5 input)

            Exit Criteria: SA5 approval

Resource: SA5

1. Editor interval to incorporate all changes

            Entry Criteria: SA5 approval of straw ballot changes and answers to any open issues/questions

            Exit Criteria: Group decides ready for final ballot voting

Editor will circulate with contributors to verify changes were incorporated correctly.

Resource: Editors

\*Document is now frozen\*

1. Final Ballot

Entry Criteria: Working group decides ready for final voting

Exit Criteria: Final Ballot deadline

No changes to document allowed

Typically keyed to f2f meeting, but not necessarily

Yes/No electronic voting

Resource: None (simply primary reps voting)

Note: The time line for BBHome after SA5 publishes the 3GPP informational model will be discussed in the BBHome-SA5 call.

The timeline to determine when subsequent changes in the future 3GPP release will be incorporated into the BBF spec and amendments released also requires discussion in the BBHome leadership.

# Annex (informative): change history of the 3GPP/BBF process

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| **Change history** |
| **Date** | **SA5 #** | **Tdoc** | **Subject/Comment** | **Old** | **New** |
| 2010-11 | 74 | S5-103065 | First version approved by 3GPP and BBF. |  --- |  --- |
| 2011-11 | 80 | S5-113723 | Clarification of the format used for changes required by SA5. Change applicability of the working procedure to all the LTE and UMTS data model definitions irrespective of how BBF decides to organize the documents now or in the future. |  --- | 11.0.0 |