**BUFFER ISSUE RESOLUTION DOCUMENT (BIRD)**

**BIRD NUMBER:** 171.3

**ISSUE TITLE:** Clarify that Empty Root Name is Not Permitted in AMI Files

**REQUESTOR:**  Bob Ross, Teraspeed Consulting Group

**DATE SUBMITTED:** June 25, 2014

**DATE REVISED:** July 11, 2014, August 6, 2014, August 22, 2014

**DATE ACCEPTED BY IBIS OPEN FORUM:** August 22, 2014

**STATEMENT OF THE ISSUE:**

In IBIS Version 6.0, it was implied but never explicitly stated that an empty root name is illegal for AMI files.

**ANALYSIS PATH/DATA THAT LED TO SPECIFICATION:**

This issue came up during ibischk6 parser development where a number of test cases had empty root names. BUG152 was issued to test for empty root names and generate Errors if the root names were empty. The parameter definition file organization on page 184 shows my\_AMIname as the root name with an implication that it cannot be empty. This proposal adds the explicit constraint into the specification.

**ANY OTHER BACKGROUND INFORMATION:**

At the July 11, 2014 IBIS Teleconference meeting we changed “null” to “empty”. We also clarified that we require at least one non-white space character. We further questioned whether to rule should apply to any branch name. Based on the August 1, 2014 IBIS Teleconference meeting feedback, clarifications were made.

Note, for the Reserved\_Parameters section, empty branches are not permitted in ibischk6, Version 6.0.0. (An unknown child message is generated.) However, an empty branch name is permitted for the Model\_Specific section. In both examples below, no Error is generated. The first example show the branch called “branch\_name”. The second example replaces “branch\_name” with an empty string (a single space or white space):

 (Model\_Specific

 (branch\_name (xyz (Usage Info) (Type Integer) (Value 1)))

 )

This second example should be illegal since the branch\_name is empty:

 (Model\_Specific

 ( (xyz (Usage Info) (Type Integer) (Value 1)))

 )

The additional bullet regarding branches is added. This check would have to be added to ibischk6.

We could decide to remove this bullet if there is controversy.

This BIRD was approved at the August 22, 2014 IBIS Open Forum teleconference as BIRD171.3, with the substitution of “preceded by” for “with” in the final line of new specification text.

On page 184, under General Rules, change the fourth bullet from:

* The root name in the file may contain an arbitrary string and does not need to match the file name.

to a modified fourth and new fifth bullet:

* The root name in the file must contain an arbitrary non-empty string (with at least one non-white-space character) that does not need to match the file name.
* A branch name under the Model\_Specific branch must contain a non-empty string with at least one non-white-space character. For example, this syntax for parameter xyz preceded by double parenthesis indicating a branch with no name is illegal: ((xyx (Usage Info) (Type Integer) (Value 1))).