

IBIS-ATM task group report

**IBIS Summit at DesignCon 2013
Santa Clara Convention Center, CA**

January 31, 2013

Arpad Muranyi
Mentor Graphics Corporation
(chairman of the IBIS-ATM task group)
arpad_muranyi@mentor.com

Achievements since DAC 2012 (June 5, 2012)

- **IBIS v5.1 has been released on August 24, 2012 including the following “clarification / correction” BIRDs:**

- **BIRD 112** IBIS-AMI Clock Times Clarification
- **BIRD 114.3** IBIS-AMI Definition Clarifications
- **BIRD 115** Clarifying Min/Tip/Max in IBIS-AMI
- **BIRD 120.1** IBIS-AMI Flow Correction
- **BIRD 126** IBIS-AMI New Reserved Parameter AMI_Version
- **BIRD 127.4** IBIS-AMI Typographical Corrections
- **BIRD 130** Crosstalk Clarification With Respect to AMI
- **BIRD 132** Clarification of the Table Format for IBIS_AMI
- **BIRD 134** AMI Function Return Value Clarification
- **BIRD 135.1** Add Boolean to BNF for IBIS-AMI
- **BIRD 136** Defining Relationships between Type and Format
- **BIRD 137.2** AMI_parameters_in, AMI_parameters_out, msg Clarifications
- **BIRD 138** IBIS-AMI Section 6c Tables Update
- **BIRD 139** Reserved_Parameters Order
- **BIRD 140.2** Format Corner and Range Clarification for IBIS-AMI
- **BIRD 143.1** Correcting the rules for AMI_Close
- **BIRD 146** Clarify sample_interval for IBIS-AMI
- **BIRD 148** Allowable Model_types with IBIS-AMI
- **BIRD 149** Usage Out Syntax Correction
- **BIRD 151** IBIS-AMI Modified Reserved Parameters for Jitter/Noise

BIRDS approved by the IBIS Open Forum

**BIRD 121.2 IBIS-AMI New Reserved Parameters
for Data Management**

**BIRD 123.5 IBIS-AMI New Reserved Parameters
for Jitter/Noise**

BIRD 152 Analog Model Boundary Definition

BIRDs under discussion

We are still neck deep in sorting out the analog BIRD proposals

- BIRD 116 Add IBIS-ISS to [External Model] and [External Circuit]
- BIRD 117.3 Parameterize D_to_A and A_to_D Converters
- BIRD 118.2 Analog Parameter Assignments
- BIRD 122 IBIS-AMI New Reserved Parameters for Analog Modeling
- BIRD 125.1 Make IBIS-ISS Available for Package Modeling
- BIRD 129 IBIS-AMI Typographical Corrections
- BIRD 144.1 Add Touchstone to [External Model/Circuit] as a Language
- BIRD 145.1 Cascading IBIS I/O buffers with [External Circuit]s
- BIRD 153 Parameter Tree Keyword

AMI enhancement BIRDs need to be finished

- BIRD 150 IBIS-AMI New Reserved Parameters for Dependency Tables
- BIRD 154 Using IBIS-AMI Leaf Labels in List Parameters
- BIRD 155 New AMI API to Resolve Dependent Model Parameter

Backchannel and Repeater proposals need to be addressed

- BIRD 128 Allow AMI_parameters_out to pass input data to AMI_GetWave
- BIRD 131 IBIS-AMI Repeaters
- BIRD 147 Back-channel support
- BIRD 156.1 IBIS-AMI Extension for Mid-channel Redriver