

## IBISv5.0 AMI specification BIRD task list

Description	Clarification or correction	New feature	BIRD file name	Date done
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### Parser developer questions

Clarify case sensitivity of .ami (yes)  
 Clarify scale factors (no, AMI is a control/initialization syntax)  
 Syntax for leaf  
 Two distinct sections? (Model\_specific is optional)  
 Is AMI limited to line length?  
 Official comment character in AMI?  
 Define white space in AMI (spaces and tabs). Is CRLF allowed in string?  
 First Token File Name? (no, just any name)  
 Atul NA in Table - Not the same as NA  
 Inconsistent Init\_Returns\_Impulse and GetWave\_Exists True (correct)  
 As per the above BNF, the Format = Table syntax is invalid.  
 Table 1 and Table 3 of Section 6c have certain ambiguities.  
 Note that these two rules build in an ambiguity about the relationship between "Format" and text strings.  
 Problems with "Format", "Value", "Default". Define rules.  
 Is the parameter "Default" not allowed for Init\_Returns\_Impulse?  
 Definition of string, integer, float?  
 Define min/typ/max possible values  
 Is increment always positive?  
 Does default have to obey  $\text{min} \leq \text{default} \leq \text{max}$ ?  
 What about Format Table, Gaussian, DjRj and Dual-Dirac?

### AMI flow related

Order of EDA tool convolution and first Tx GetWave call add parameter: Init_Returns_Filter	5.1	5.1	Flow_BIRD_1.txt	April 13, 2010
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### Ambiguities in text

clarify clock_times	5.1			
clarify AMI parameter string extraction process from an .ami file	5.1			
define how impulse response is generated				
- what should be done in absence of an analog IBIS model?				
- if Thevenin (LTI) buffer is used, what should be the amplitude?	5.1			
- what tap coefficients should the analog model represent?				

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are quotes and other special characters allowed in parameter string?	5.1			
clarify unit of impulse response	5.1			

### List from existing BIRD draft (as of February 23, 2010)

remove branches: Reserved_Parameters, Model_Specific		5.1+		
remove reserved parameters: Tx_Jitter, Rx_Clock_PDF	??			
remove keywords: Format, Gaussian, Table, DJRj, Dual-Dirac	??			
add keyword: Array		5.1+		

Scott's suggestion:

- 1) clarification
  - top level clarification BIRD -> full document, rewrite 5.0 with clarifications
  - subset -> clarification sub-BIRD-s to clarify specific things (clock\_time, flow, etc...)
- 2) new stuff in separate BIRD-s (justification and proposed solutions)