# Commit Requests 4p5\_3 and 4p5\_4

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## 4p5\_3: COM module NEXT package issue

- Title: NEXT for package taken from transmitter table
- Submitter: Upen Reddy Kareti and Ali Ghiasi
- Description:
  - The NEXT lengths and voltage values for the package is supposed to come from the receiver package. However, the current version of COM takes lengths from the transmitter package (this is incorrect) and the voltages from the receiver (this is correct)
  - Minimal impact observed. ~0.2dB

#### 4p5\_3: Fix Details

read_ParamConfigFile.m -2+2 /src/com_fcts/read_ParamConfigFile.m				
553	553		end	
554	554		<pre>tx_rx_fields = {'C_pkg_board' 'R_diepad'};</pre>	
555	555		<pre>tx_rx_fields_matrix = {'pkg_Z_c'};</pre>	
556 557		-	<pre>tx_fields = {'z_p_tx_cases' 'z_p_next_cases' 'z_p_fext_cases' 'pkg_gamma0_a1_a2' 'pkg_tau' 'a_thru' 'a_fext'}; rx_fields = {'z_p_rx_cases' 'a_next'};</pre>	
	556	+	<pre>tx_fields = {'z_p_tx_cases' 'z_p_fext_cases' 'pkg_gamma0_a1_a2' 'pkg_tau' 'a_thru' 'a_fext'};</pre>	
	557	+	<pre>rx_fields = {'z_p_rx_cases' 'a_next' 'z_p_next_cases'};</pre>	
558	558		<pre>tx_pkg_name=param.PKG_NAME{1};</pre>	
559	559		rx_pkg_name=param.PKG_NAME{2};	
560	560		<pre>tx_pkg_struct=param.PKG.(tx_pkg_name);</pre>	

### 4p5\_4: RXFFE floating tap index report error

- Title: RXFFE floating tap index report error
- Submitter: Upen Reddy Kareti and Howard Heck
- Description:
  - The reported location of floating taps does not match the locations of the reported coefficient values

#### 4p5\_4: Fix Details

~		MMSE.m -1+1 /src/com_fcts/MMSE.m
		else
77	77	C=Craw;
78	78	end
79		<ul> <li>MMSE_results.floating_tap_locations=idx;</li> </ul>
	79	+ MMSE_results.floating_tap_locations=idx-param.N_tail_start+1+Nfix;
80	80	MMSE_results.C=C;
81	81	