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| SEAMCAT Technical Group (STG)Send to: seamcat@eco.cept.org  |  |
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| Date issued:  | 02.12.2019 |
| Source: | Ericsson AB |
| Subject: | Add user interface for body loss and feeder loss in 3GPP cellular systems |

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| **Type of report** (Bug, Enhancement or New Feature) |
| Enhancement |
| **Issue ID** |
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| **SEAMCAT version**  |
| 5.3.1  |
| **SEAMCAT component** **involved** |
| Cellular 3GPP components and generic module |
| **Background information, reference documents and related tickets** |
| The body loss and feeder loss are parameters which are defined in ITU-R M.2292. In the current SEAMCAT version user interfaces in order to directly input these parameters are missing. This is a problem and can lead to wrong settings when people use SEAMCAT with these parameters. |
| **Description of the issue** |
| In the current SEAMCAT version there is a message that the feeder loss for non-AAS antennas should be considered at the BS max transmit power as shown in the figure below. For the UE this information can be even misleading.  This even with the information message can lead to wrong settings as people may add the feeder loss to the antenna gain. To avoid this and also to include body loss when simulating non-AAS systems separate selectable inputs for feeder loss and body loss needs to be added in SEAMCAT.* The standard setting could be 0 dB
* The losses shall be added to the BS and UE output power within the programme. This is also indicated in the “i” sign which can then be removed
* How the feeder loss and body loss have to be understood for non/AAS and AAS systems and also UEs will be described in the SEAMCAT helpfile with typical settings as examples.

Examples on how and where the new additional inputs could be implemented for the non-AAS (AAS) cellular 3GPP components are given below. For the DL in the 3GPP cellular components:For the UL in the 3GPP cellular components: |
| **Proposal** |
| Add user interface for body loss and feeder loss for the 3GPP cellular components and generic module in SEAMCAT |
| **Suggested Priority (High, Medium or Low)** |
| High |