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| SEAMCAT Technical Group (STG) Send to : [seamcat@eco.cept.org](mailto:seamcat@eco.cept.org) | |  |
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| Date issued: | 27/06/2019 | |
| Source: | PreHCM Services (berthold.ruth@prehcmservices.de) | |
| Subject: | Discussion on single sector case in SEAMCAT | |

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| **Type of report**(Bug, Enhancement or New Feature) |
| Enhancement |
| **Issue ID** |
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| **SEAMCAT version V.5.3.0** |
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| **SEAMCAT componentinvolved** |
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| **Background information, reference documents and related tickets** |
| STG#64 decided to invite stakeholders to discuss about the issues related to the definition and implementation of a single sector in cellular systems: how SEAMCAT currently deals with single sectors;  what the users would like to have implemented for different options involving the selection of a single sector. |
| **Description of the issue& discussion** |
| Several use cases have been expressed during STG#64:  Case\_1: Cellular system single cell  discussion singlecell 1.JPG  Any about azimuth angle makes no sense (Victim and interfering Link).  Case\_2: Cellular system Tri-Sector  discussion singlecell 2.JPG  Only one cell consisting by Tri-Sectors is meant (Victim and Interfering Link)..  Case\_3: Cellular system Tri-Sector with the Option ‘Single Sector’  discussion singlecell 3.JPG  Only one cell consisting by Tri-Sectors is meant, but by considering each Sector itself. Thus,  There is the possibility to define, in the past, a so called Ref-Cell. But Ref-Cell (red marked) could be in this context misunderstood. Maybe Ref-Sec is a better wording for it. This opens the possibility to define for the Victim System with a Ref-Cell, e.g. as ‘worst case sector’. For the Interfering Link it could be used to define a distance, e.g. in the Cross-Border case.  Case\_4: Cellular system Tri-Sector and 1-tier  discussion singlecell 4.JPG  In this case Single cell is predefined in SEAMCAT. That means it is possible to define a **Ref-Cell** consisting by Tri-Sectors. Victim and Interfering System.  Case\_5: Cellular system Tri-Sector and 1-tier and with the Option ‘Single Sector’  discussion singlecell 5.JPG  With this Option, there is the possibility to refer to only one Sector in a network case (red marked). The Ref-Sec should be selectable by the user (red marked). The Ref-Sec make sense in the Victim System, but for the Interfering System it could be used to define the distance between the networks. |
| **Proposal** |
| In the case of 2-tiers or Tri-Sector (3GPP2) it should be applied like presented accordingly. To avoid misunderstandings Ref-Cell, used in the former SEAMCAT Versions, should be renamed to Ref-Sec. |
| **Suggested Priority (High, Medium or Low)** |
| Medium |