

### CDR Requirements from MNOs:

| Phases  | No | Data  | Sources                                 | Purpose | Connection Point  | Requirement Details  |
|---------|----|---|---|---------|---|--|
| Phase 1 | 1  | VC Recharge Transaction including outbound roaming. | Voucher Management System (VMS)         | TSF 10% | <ul style="list-style-type: none"> <li>Database connection to CvBS table or view</li> </ul> | All used physical recharge transactions along with respective official Data Definition Files.  |
|         | 2  | OCS (Online charging system) detailed transactions  | E-Top-up (Me2U, M Paisa, M Share, etc.) | TSF 10% | <ul style="list-style-type: none"> <li>Database connection to CvBS table or view</li> </ul> | All electronic channels recharges that increase the subscriber main balance with local currency. Along this we need the official data definition file. |
|         | 3  | Postpaid Billed CDR including outbound roaming.     | IN / Billing System                     | TSF 10% | <ul style="list-style-type: none"> <li>Database connection to CvBS table or view</li> </ul> | Postpaid subscribers' usage CDR and generated bills by billing system.   |

|         |   |   |                         |                   |  |  |
|---------|---|---|-------------------------|-------------------|--|--|
|         | 4 | Roaming CDRs  | TAP OUT file            | TSF 10%           | <ul style="list-style-type: none"> <li>SFTP – File Sharing</li> </ul>  | Inbound roaming CDRs TAP out files   |
|         | 5 | Leased line   | Collection/invoices     | TSF 10%           | <ul style="list-style-type: none"> <li>SFTP – File Sharing</li> </ul>  | all leased line like E1 Links, staff lines etc.  |
| Phase 2 | 1 | 1- All Usage CDRs<br>2- VAS CDRs<br>3- Bundles CDRs<br>6- Others.   | IN/Billing              | Revenue Assurance | <ul style="list-style-type: none"> <li>Database connection to CvBS table or view</li> <li>SFTP – File Sharing</li> </ul> | All usage prepaid/postpaid CDRs, before mediation. CDRs description document.          |
|         | 2 | GGSN/SGSN CDRs  | GGSN/SGSN Core Networks | Revenue Assurance | SFTP – File Sharing  | All GPRS CDRs before mediation. CDRs description document.                             |
|         | 3 | SMSC CDRs   | SMSC                    | Revenue Assurance | SFTP – File Sharing  | SMSC CDRs before mediation. CDRs description document.                                 |
|         | 4 | a. Interconnect rates plan<br>i. PABX (Private Automatic Branch Exchange)<br>ii. Call Center<br>iii. Transit charges<br>iv. SMS | <b>MSC / GMSC</b>       | Revenue Assurance | SFTP – File Sharing  | All MSC - Raw CDRs before mediation. Invoices for E1 links. CDRs description document. |

|  |  |   |  |  |  |  |
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|  |  | v. E1 Links<br>b. Roaming<br>a. Inbound/outbound<br>c. Incoming domestic/International Calls<br>d. Others |  |  |  |  |
|--|--|---|--|--|--|--|

**NOTE:** Other rated or charged CDR in case missed in above table that contributes in revenue.

