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Vodacom (Pty) Ltd  
iCAP Interface Control Document  
High-Speed Interface Server

IDL Version 2.0.5



This document specifies an API that may be used by external systems e.g. USSD to access the functionality provided by iCAP.

The API is based on the CORBA standard.

**APPROVAL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Designation | Company | Date | Signature |
|  | Manager: Billing | Vodacom |  |  |
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**DOCUMENT HISTORY**

| Revision | Date | Rel | ECP/ Sharepoint | Comment |
| --- | --- | --- | --- | --- |
| … document history truncated, see previous version for details… | | | | |
| 2.550 P | 2012-10-08 | RSA | 4099 | Add function to add and remove the Summer Promotion Opt-in Service - Table 368 |
| 2.551 P | 2012-10-11 | RSA | 4099 | Remove the Summer Promotion Opt Out function – DEASMP - Table 368 |
| 2.552 P | 2012-10-15 | RSA | 3771 | Add QRYBOX - 3.5.96 |
| 2.553 P | 2012-10-11 | RSA | 4099 | Remove the Summer Promotion Opt In function – ACTSMP - Table 368 |
| 2.554 P | 2012-10-19 | RSA | 3608 | Add new function Gifting Recharge History - ICAP – QRYGTR – 3.5.97 |
| 2.555 P | 2012-10-19 | DRC | R3-06-1642 | Corrected ADDBUN Function to match TZFS-170. Changed attribute MSISDN to RECIPIENT |
| 2.556 P | 2012-10-25 | RSA | 3771 | Update QRYBOX - 3.5.96 |
| 2.557 P | 2012-10-25 | DRC | [J1-01-3531](http://issrvraptor/jobOrder.do?p_action=showJobOrder&jobOrderNumber=J1-01-3531) | Added new SYNCHRONOUS calls for Bundle Activation via the Web: ADWBUN – Add DATA bundles   ADWVBN – Add VOICE bundles  ADWSMS – Add SMS bundles  ACWBLB – Add Blackberry Bundle  RWWM2M – Wimax M2M Renewal QINACB enabled for DRC |
|  |  | DRC | DC005609 | Corrected QRYRVD. |
| 2.589 P | 2012-11-14 | RSA | 3608 | Updated Gifting Recharge Attribute names - QRYGTR – 3.5.97 |
| 2.560 P | 2012-11-15 | TZN |  | Update the decode for QRYHSB so as to return ‘Un-registered’ for REG\_STATUS=N |
| 2.561 P | 2012-11-27 | DRC | [J1-01-3531](http://issrvraptor/jobOrder.do?p_action=showJobOrder&jobOrderNumber=J1-01-3531) | Added QRBBAL – call to IN for the Bundle Balance- 3.5.98 |
| 2.562 P | 2012-11-30 | DRC | [J1-01-4464](http://raptor/jobOrder.do?p_action=showJobOrder&jobOrderNumber=J1-01-4464) | ACTBLB keywords 0 |
| 2.563 P | 2012-12-04 | TZN | [J1-01-4676](http://issrvraptor/jobOrder.do?p_action=showJobOrder&jobOrderNumber=J1-01-4676) | Staff data friend functions ADDSDF, DELSDF, QRYSDF. Ref 3.6.222 |
| 2.564 P | 2012-12-05 | RSA | 3800 | Add new query function - Query RTN Bundle information – QRTBUN - **Error! Reference source not found.** |
| 2.565 P | 2012-12-07 | DRC | J1-01-4819 | Add SUBSCRIBE action to UPDRBT |
| 2.566 P | 2012-12-11 | TZN | TZ009663 | SIMCHG parameters UNLOCK ICCID and UNLOCK SMS are mandatory |
| 2.567 P | 2012-12-13 | RSA |  | 3.6.93, corrected ID from DELTCL to DELCTL. |
| 2.568 P | 2012-12-14 | DRC | [J1-01-4527](http://issrvraptor/jobOrder.do?p_action=showJobOrder&jobOrderNumber=J1-01-4527) | REMCSV to remove credit service (ref festive handset service DRFS-177). |
| 2.569 P | 2012-12-18 | DRC | [J1-01-4527](http://issrvraptor/jobOrder.do?p_action=showJobOrder&jobOrderNumber=J1-01-4527) | Update REMCSV with SERVICE parameter 3.6.224. |
| 2.570 P | 2013-01-15 | TZN | J1-01-4644 | ADDMCN, REMMCN |
| 2.571 P | 2013-01-18 | DRC | [J1-01-4761](http://issrvraptor/jobOrder.do?p_action=showJobOrder&jobOrderNumber=J1-01-4761) | Added new request to register or update email address via Highspeed – UPDEML. |
| 2.572 P | 2013-01-25 | TZN | J1-01-4753 | Roaming credit limit for bill shock SETRCL, QRYRCL, QRYRCB. 3.6.228 |
| 2.573 P | 2013-01-25 | RSA | J1-01-4223 | Update Output parameters for VTHQBN - 0 |
| 2.574 P | 2013-01-29 | TZN | J1-01-5072 | QRYHSB – add decode for PREG – Pre-Registered. 3.5.91 |
| 2.575 P | 2013-02-06 | RSA | J1-01-4223 | Update order of Output parameters for VTHQBN - 0 |
| 2.576 P | 2013-02-08 | DRC | [J1-01-5037](http://help.altechisis.com/jobOrder.do?p_action=showJobOrder&jobOrderNumber=J1-01-5037) | Added SLFREG (DRC – self registration for prepaid) 3.6.226 |
| 2.577 P | 2013-02-18 | DRC | J1-01-4591 | Self Care Pin (DRC) functions. **Error! Reference source not found.**. PINSET,PINCRE,PINCHG,PINRST,PINAUT. Also added SECQRY,SECAUT,SECCHG (additional scope for a future job). The portal will use these SEC\* functions on the subscriber secret data, so that the highspeed PIN functions PINCRE,PINCHG,PINRST do not need to validate the secret answer. |
| 2.578 P | 2013-02-27 | DRC | J1-01-4555 | Postpaid statement queries. QRYOAB, QRYLIP, QRYANA. Ref 3.5.100 |
| 2.579 P | 2013-02-28 | DRC | J1-01-4593 | CSI – QRYSVY and ANSSVY – DRFS-184. |
| 2.580 P | 2013-03-07 | RSA | 3800 | Remove attribute ‘ADHOCINFO’ from Query RTN Bundle information – QRTBUN - **Error! Reference source not found.** |
| 2.581 P | 2013-03-07 | DRC | [J1-01-5037](http://help.altechisis.com/jobOrder.do?p_action=showJobOrder&jobOrderNumber=J1-01-5037) | SLFREG added LANGUAGE and change ID and ID TYPE to be optional. |
| 2.582 P | 2012-03-15 | DRC | J1-01-4178 | Add BAR GPRS option on LCKCCL. |
| 2.583 P | 2012-04-03 | DRC | J1-01-5037 | Removed ‘\_’ from Address\_Type for SLFREG. |
| 2.584 P | 2013-04-15 | RSA | 4061 | Add new Query – QRCID Query caller ID 3.5.104 |
| 2.585P | 2013-04-24 | TZN | J1-01-5387 | Added output fields on QRYHSB 3.5.91 |
| 2.586 P | 2013-05-15 | RSA | 4061 | Update QRICID description to Query RICA SIM Swap Check 3.5.104 |
| 2.587 P | 2013-05-22 | RSA | 4360 | Update QRYBLB to also return Blackberry data bundle balance |
| 2.588 P | 2013-05-24 | RSA | 4061 | Update QRICID display messages - Table 244 |
| 2.589 P | 2013-05-30 | DRC | J1-01-5111 | RMDTOF/RMDTON will also be used in DRC. |
| 2.590 P | 2013-06-03 | RSA | 4337 | Add REMPSC and ADDPSC for push sales channels - 0, 0 |
| 2.591 P | 2013-06-10 | RSA | 4329 | Update QFCTRE to check for a free change every 1 day - 3.5.30 |
| 2.592 P | 2013-06-20 | TZN | [J1-01-5588](http://issrvraptor/jobOrder.do?p_action=showJobOrder&jobOrderNumber=J1-01-5588) | Cancel roaming credit limit for bill shock CANRCL. 3.6.229 |
| 2.593 P | 2013-06-21 | RSA | 4452 | Change International Call Promo to ‘International Calling Plus’ - 3.6.213 ; 3.6.214 |
| 2.594 P | 2013-06-25 | RSA | 4394 | Add QRTSUM Query Summarised RTN Bundle Information - **Error! Reference source not found.** |
| 2.595 P | 2013-06-25 | RSA | 4447 | Add QOCSPA - Query OCS Packages 3.5.105 Add QOCSPI - Query OCS Package Item 3.5.106 Add QOCSPB - Query OCS Package Balances 0 |
| 2.596 P | 2013-07-15 | DRC | J1-01-5533 | Corrected input attributes for the ADDVDE and DELVDE functions for DRC. See 3.6.110 and 3.6.111 |
| 2.597 P | 2013-07-16 | RSA | 4211 | Viewthru CCS Bundle information – CCSBDV - 3.5.108 |
| 2.598 P | 2013-06-17 | RSA | 4211 | Update ‘Viewthru CCS Bundle information {CCSBDV}’ function code, Update the CCSBDV function output definitions to indicate the same format as QBNDET - 3.5.108 |
| 2.599 P | 2013-07-31 | RSA | 3933c | Add Promo Gift Engine view thru functions: QRYGTU - 3.5.109, QRYGTE - 3.5.110, QRYGTN - 3.5.111, QRYGTA - 3.5.112 |
| 2.600 P | 2013-07-31 | RSA | 3933c | Added gift redemption code to QRYGTU and QRYGTE in 3.5.109 and 3.5.110. |
| 2.601 P | 2013-08-13 | DRC | J1-01-5205 | Added ZTE VMS provisioning commands for: CREMBX MODMBX DELMBX QRYMBX |
| 2.602 P | 2013-08-14 | RSA | 3552 | Added exempt option for repeat caller, see changes: 5.9, Table 719 |
| 2.603 P | 2013-08-15 | RSA | 3933c | Added GIFT STATUS to QRYGTU and QRYGTE in 3.5.109 and 3.5.110. |
| 2.604 P | 2013-08-26 | RSA | 4301 | Added Query Subscriber Roaming Service Offering QROMSO - 3.5.114  Remove Vodafone from MTOVPR and MFRVPR - 3.6.86, 3.6.87 |
| 2.605 P | 2013-08-28 | RSA | 4502 | Added Redeem By date to QRYGTU in 3.5.109. |
| 2.606 P | 2013-09-02 | RSA | 4457 | Add View U Choose Smart Bundles VTHUCS - 3.5.115 |
| 2.607 P | 2013-09-02 | RSA | 4420 | Add QRYSVB – Query Service Bundles - 0 |
| 2.608P | 2013-09-09 | DRC | J1-01-6067 | DRC: ACTBLB, ACWBLB will add GPRS if not already subscribed |
| 2.609 P | 2013-09-11 | RSA | 4434 | Add QRYSSC – Query SIM Swap Count - 3.5.117 |
| 2.610 P | 2013-09-12 | RSA | 4434 | Update QCRFLG – Query Call Routing Flag flags - Table 719 |
| 2.611 P | 2013-09-26 | RSA | OT4222 | Viewthru CCS Bundle Summary information – CCSBDS - 3.5.118 |
| 2.612 P | 2013-09-27 | DRC | J1-01-6077 | QRYRVD updated as per new QRYRVD on Alcatel ICC (DRFS-095). 3.5.48 |
| 2.613 P | 2013-09-30 | RSA | OT4311 | Update QRYAAA to allow an IMSI as Sub Identifier - 3.5.69 |
| 2.614 P | 2013-09-30 | RSA | OT4602 | Add new: QRYVBP – Query Voice Biometrics Profile 3.5.119 QATFLG – Query Attribute Flags 3.5.120 REGVBS – Register Voice Biometrics System **Error! Reference source not found.** DRGVBS – Deregister Voice Biometrics System **Error! Reference source not found.** OPTOVB – Opt Out Voice Biometrics **Error! Reference source not found.** OPTIVB – Opt In Voice Biometrics **Error! Reference source not found.** |
| 2.615 P | 2013-10-02 | TZN | J1-01-5940 | ADDBUN cater for new origin and response for Selcom. 3.6.149 |
| 2.616 P | 2013-10-04 | RSA | OT4602 | Add new: DELSID – Delete Speaker ID |
| 2.617 P | 2013-10-14 | RSA | OT4386 | Add new: QSSINF – Query Specified Subscriber Info - 3.5.121 |
| 2.618 P | 2013-10-15 | TZN | J1-01-6206 | Sim Swap Process 2 function SIMCH2 |
| 2.619 P | 2013-10-17 | RSA | OT4602 | Remove DELSID |
| 2.620 P | 2013-10-28 | DRC | J1-01-5205 | Changed following ZTE VMS provisioning functions to the PerformFunction method. CREMBX MODMBX DELMBX |
| 2.621 P | 2013-10-31 | DRC | J1-01-5205 | Updated Language to be 114 – FRENCH. 112 – ENGLISH for ZTE VMS. COM LANG and BRAND CODE must be blank. |
| 2.622 P | 2013-11-01 | RSA | J1-01-2103 | Add new queries: QRYONP – Query One-Net Profile - [3.5.127](#_Query_One-Net_Profile) QRYOVM – Query One-Net VPN Members - [3.5.128](#_Query_One-Net_VPN) VTHONE - Query One-Net CUG Minutes - [3.5.124](#_Query_One-Net_CUG) |
| 2.623 P | 2013-11-07 | RSA | OT5386 | Added short description field to QRYGTE - 3.5.110. |
| 2.624 P | 2013-11-29 | RSA | OT5419 | Update QRYROM Table 215 and MTOVPR and MFRVPR |
| 2.625 P | 2013-12-09 | RSA | OT5084 | Changed VTHONE query’s output attributes field names to uppercase Table 283. Removed iCAP as Parameter/Value Description from Parameter SUB ID for queries QRYONP (Table 278) and QRYOVM (Table 280). |
| 2.626 P | 2014-01-09 | RSA | OT6639 | Update and remove QRICID display messages - Table 244 |
| 2.629 P | 2014-01-09 | RSA | OT6639 | Add QRICID display messages- Table 244 |
| 2.629 P | 2014-01-10 | RSA | OT6639 | Update QRICID display messages- Table 244 |
| 2.630 P | 2014-01-15 | RSA | OT4436 | Added new query QRYPID – Query Product ID - 3.5.125 |
| 2.631 P | 2014-01-24 | RSA | OT6988 | Update Query QBNASM and QBNDET - 0, 3.5.9 |
| 2.632 P | 2014-01-30 | RSA | OT4436 | Added query QRYSMB - 3.5.126 |
| 2.633 P | 2014-01-31 | RSA | OT4436 | Changed NE\_ID to PACKAGE in QRYPID - 3.5.125 |
| 2.634 P | 2014-02-05 | RSA | OT6480 | Add new query: VTHCMX – Viewthru Corporate Mailbox - 3.5.127 |
| 2.635 P | 2014-02-07 | RSA | OT4436 | Added NE\_ID in QRYPID - 3.5.125 |
| 2.636 P | 2014-02-12 | RSA | OT4436 | Update to QRYPID - 3.5.125 |
| 2.637 P | 2014-03-10 | RSA | OT7361 | Remove Corporate Number from VTHCMX output - 3.5.127 |
| 2.638 P | 2014-04-11 | RSA | OT7964 | Update QRYVBP - 3.5.119 and remove OPTIVB, OPTOVB from document |
| 2.639 P | 2014-05-13 | RSA | OT8486 | Added START TIME\_n, END TIME\_n, COMPACT DESC\_n, GIFT COST\_n in the response list of the gift related queries QRYGTU, QRYGTE, QRYGTN, QRYGTA. Sections 3.5.109, 3.5.110, 3.5.111, 3.5.112. |
| 2.640 P | 2014-05-22 | DRC | J1-01-7263 | Added MSAUTH and DIDREG for integration with Papersoft DMS. |
| 2.641 P | 2014-05-29 | RSA | OT7638 | Update SETNTF - 2913.6.169 |
| 2.642 P | 2014-05-29 | DRC | J1-01-7695 | Make Amount optional on Bundle provisioning and Charge Mode mandatory. |
| 2.643 P | 2014-06-09 | RSA | OT7073 | Add VGE Roamer - Table 215, Table 263 |
| 2.644 P | 2014-06-17 | RSA | OT7638 | Add Set Subscriber Link {SETLNK} 3.6.240 |
| 2.645 P | 2014-06-23 | DRC | J1-01-7810 | DRC Convergent Billing Solution, make change to UPDRBT and add QRYCLL. |
| 2.646 P | 2014-06-25 | RSA | OT7638 | Add Query Subscriber Link QRYLNK - 3.5.130 |
| 2.647 P | 2014-07-08 | DRC | J1-01-7810 | QRYCLL should be QRYCCL. |
| 2.648 P | 2014-07-10 | DRC | J1-01-7810 | UPDRBT update for Convergent Billing Solution. |
| 2.649 P | 2014-07-11 | RSA | OT9684 | Add QBNDTC – Query Bundle Details – Contract  Add QBNASC – Query All Bundle Summary Details – Contract  Table 30, 3.5.131 , 3.5.132 Referenced Documents |
| 2.650 P | 2014-07-31 | RSA/ ALL | OT10135 | Update Subscriber Identifier Section - 3.2, 3.2.1, Table 2 Update all functions to refer to Table 2 |
| 2.651 P | 2014-08-05 | RSA/ ALL | OT10135 | Update 14 DM changes after external review - 3.2.2, 3.5.16, 3.5.17, 3.5.19 |
| 2.652 P | 2014-08-19 | DRC | J1-01-8092 | Added MNGBUN for Africa Roaming Bundles. |
| 2.653 P | 2014-08-20 | DRC | J1-01-7695 | Removed mandatory CHARGE MODE from DRC bundle provisioning as there is no OCS mapped parameter in PRVBUN, ChangeOptionalOffer. |
| 2.654 P | 2014-08-27 | DRC | J1-01-7454 | CATEGORY should be optional for QRBBAL on OCS (DRC). |
|  |  | DRC | J1-01-7909 | Added mandatory OPER TYPE to LCKADM and UNLADM for convergent billing. |
| 2.655 P | 2014-08-29 | RSA | OT10553 | QRYAAA – corrected to QRYRAA and additional return of “I” (ignore) - 3.5.69 |
| 2.656 P | 2014-09-02 | RSA | OT9990 | Update QRYONP to only return one value for the CUG SERVICE field - 3.5.122 |
| 2.657 P | 2014-09-05 | DRC | DC006567 J1-01-8278 | Updated LCKCCL and UNLCCL with new reason codes for Barring International Roaming – 6.16 |
| 2.658 P | 2014-09-23 | RSA | OT18009 | Make OPTOVB, OPTIVB available on HSI - **Error! Reference source not found.**, **Error! Reference source not found.** |
| 2.659 P | 2014-10-03 | RSA | OT9729 | Update QRYROM attributes for Travel Saver (remove Passport add Travel Bundle) - 3.5.90  Add new function to activate and activate Vodacom Travel Bundle VTBON1 - 3.6.242 VTBOFF - 3.6.243 |
| 2.660 P | 2014-10-03 | TZN | J1-01-8158 | CREACT – Create and Activate a Subscriber. |
| 2.661 P | 2014-10-07 | RSA | OT18009 | Make VALVBS, INVVBS available on HSI - **Error! Reference source not found.**, **Error! Reference source not found.** |
| 2.662 P | 2014-10-09 | DRC | DC006544 | Added ACTION parameter to MNGBUN |
| 2.663 P | 2014-10-09 | DRC | DC006586 | KEYBIL function added - 3.5.133 |
| 2.664 P | 2014-10-10 | RSA | OT18013 | Update the QOCSPB function with additional output attributes - 3.5.107 |
| 2.665 P | 2014-10-16 | DRC | DC006586 | KEYZON, KEYZOC, KEYZOT functions added - 3.5.134 |
| 2.666 P | 2014-10-17 | DRC | DC006544 | Updated MNGBUN to ignore Recipients input (if provided) with ACTION = UNSUBSCRIBE.. |
| 2.667 P | 2014-10-20 | DRC | DC006031 | Added 4 new queries, QRYPUK, QRYROM, QRYCAL and QRYUSE. |
| 2.668 P | 2014-10-23 | TZN | J1-01-8234 | Added ADPCRF function. Ref 3.6.245 |
| 2.669 P | 2014-10-29 | DRC | DC006544 | Updated SUB ID for MNGBUN. |
| 2.670 P | 2014-11-10 | TZN | J1-01-8158 | Added changes to ACTPPS and CREACT. |
| 2.671 P | 2014-11-12 | RSA | OT11303 | Update supported MSISDN Format - 3.2.2 |
| 2.672 P | 2014-12-08 | TZN | [J1-01-9014](http://issrvraptor/jobOrder.do?p_action=showJobOrder&jobOrderNumber=J1-01-9014) | Added SNDSRD and UPDSRD. |
| 2.673 P | 2014-12-11 | RSA | OT21228 | Added ADDEIR (3.6.247) and DELEIR (3.6.248) |
| 2.674 P | 2014-12-11 | DRC | DC006735 | New Business Rule on CRERGL for Starter Packs – mandatory PUK1 validation required. |
| 2.675 P | 2015-01-09 | DRC | DC005889 | Wimax Renewal RNWM2M will use PWE workflow and not SRM. |
| 2.676 P | 2015-01-16 | RSA | OT21737 | Added QRYEIR - 3.5.140 |
| 2.677 P | 2015-02-09 | TZN | J1-01-9661 | Tanzania: Registration details for banks (know your customer). Added QRYKYC - 3.5.141 |
| 2.678 P | 2015-02-13 | TZN | J1-01-9687 | Tanzania: Daily Roaming Bundle. Added function ADDRBN - 3.6.249 |
| 2.679 P | 2015-03-03 | TZN | J1-01-9014 | Updated SNDSRD and removed UPDSRD. |
| 2.680 P | 2015-03-04 | DRC | J1-01-9592 | 3.6.28 UPDLAN to log MNGATT request with LOG OCS CMD = Y. 3.6.235 CREMBX and 3.6.236 MODMX – remove Language, Com Language and Password. |
| 2.681 P | 2015-04-24 | DRC | J1-02-0485 | MIGPRD new business rule. |
| 2.682 P | 2015-05-08 | DRC | J1-01-9592 | UPDATE NETWORK ELEMENTS is not used for DRC. |
| 2.683 P | 2015-07-23 | RSA | OT24907 | Update the subscriber ID's allowed - Table 2, 3.5.122, 3.5.123, 3.5.124 |
| 2.684 P | 2015-07-24 | DRC | J1-02-0791 | QRYRVD validation rules to also cater for 18 digits long serial numbers. |
| 2.685P | 2015-07-29 | DRC | J1-01-9174 | SKFPRA, SKFQMU, SKFPCM |
| 2.686 A | 2015-08-12 | MS | J1-02-1082 | Add migration status in QRYPRF -  Table *58* |
| 2.687 P | 2015-08-17 | DRC | J1-02-0793 | Added new query QRYREG, to check if subscriber is legally registered. |
| 2.688 P | 2015-08-21 | DRC | J1-01-8829 | Added ADDBLK, DELBLK and QRYBLK for EIR provisioning on SDM. |
| 2.689 A | 2015-08-24 | MS | J1-02-1082 | Add Migration status rule -  Table *58* |
| 2.690 P | 2015-08-27 | MS | J1-02-1510 | Submitted External Approval |
| 2.691 P | 2015-09-09 | TZN | J1-02-1190 | Added SIMCC2 and updated SIMCH2. |
| 2.692 P | 2015-10-20 | DRC | DC007062 | Added rule for value to be returned on QINACB for DRC. |
| 2.693 P | 2015-10-30 | TZN | J1-02-0900 | MNP Tanzania. QLCRDB, QMNPME. 3.5.144 |
| 2.694 P | 2015-11-05 | TZN | J1-02-0900 | MNP Tanzania. PTINRQ, PTINCN, PTOTRR. 3.6.256 |
| 2.695 P | 2015-11-06 | DRC | J1-02-1892 | RNWM2M and RWWM2M added WM4 services logic. |
| 2.696 P | 2015-11-26 | DRC | J1-02-1693 | MIGPRD error handling of failed IPRVID command on OCS. |
| 2.697 P | 2015-11-30 | DRC | J1-02-1693 | Added SMS text messages fro ENGLISH and FRENCH. |
| 2.698 P | 2015-12-07 | DRC | J1-02-1693 | Added other languages for error message. |
| 2.699 P | 2015-12-14 | TZN | J1-02-1339 | ADDRBN to use PWE workflow. |
| 2.700 P | 2015-12-23 | DRC | J1-02-1691 | New function MIGPD1 Highspeed-Migrate between Prepaid Offers OCS. |
| 2.701 P | 2016-01-07 | TZN | J1-02-0900 | Update used to string. MNP Tanzania. PTINRQ, PTINCN, PTOTRR. 3.6.256 |
| 2.702 P | 2016-01-26 | RSA | OT32602 | Update the attribute descriptions for QBNDET - 3.5.9 |
| 2.703 P | 2016-04-13 | RSA | OT35802 | New query CCSDBN - Viewthru CCS Bundle Information All Services Node - 3.5.146 |
| 2.704 P | 2016-05-13 | TZN | J1-02-2675 | Month to Month M2MTOM, M2MFRM, M2MLCK, M2MUNL. Ref 3.6.260 |
| 2.705 P | 2016-06-06 | TZN | J1-02-2675 | Add Account Number to Month to Month M2MTOM. Ref 3.6.260 |
| 2.706 P | 2016-06-21 | DRC | DC007272 | Made Address1..3 optional for CRERGL. |
| 2.707 P | 2016-06-23 | DRC | DC007184 | Added UNLLGL. |
| 2.708 P | 2016-07-21 | RSA | OT35225 | Update VTBON1 for Vodacom Travel Data Bundles - 3.6.242 |
| 2.709 P | 2016-08-08 | DRC | DC007278 | New Highspeed function ADDCLR to activate/deactivate CLIR service on HLR via USSD. |
| 2.710 P | 2016-08-10 | DRC | DC007179 | Add 3 new Highspeed functions for DRC: SIMCHV, LCKSTV and UNLSTV. |
| 2.711 P | 2016-08-17 | DRC | DC007179 | Added sms text messages. |
| 2.712 P | 2016-08-23 | DRC | DC007179 | Added feedback from SJ. |
| 2.713 P | 2016-08-31 | TZN | TZ010990 | Add Title and Address parameters on M2MTOM (conditional for prepaid) as per section below 3.6.260 |
| 2.714 P | 2016-09-02 | DRC | DC007278 | ADDCLR (S12) - use CLT for Prepaid and CLRS for contract and Hybrid. |
| 2.715 P | 2016-09-08 | RSA | OT41296 | Add queries: Subscriber Reward Details Viewthru QRYREW-3.5.147 Subscriber Prize Details Viewthru QRYPRI- 3.5.154 Subscriber Summary Viewthru QSPIWN-3.5.155 |
| 2.716 P | 2016-09-09 | DRC | DC007278 | ADDCLR must use CLIR service for both PP and contract. |
| 2.717 P | 2016-09-13 | RSA | OT41296 | Updated queries : Subscriber Reward Details Viewthru QRYREW-3.5.147 Subscriber Prize Details Viewthru QRYPRI- 3.5.154 Subscriber Summary Viewthru QSPIWN-3.5.155 |
| 2.718 | 2016-09-14 | RSA | OT41296 | Update SUB ID, SUB ID TYPE-3.5.147, 3.5.154 ,3.5.155 |
| 2.719 P | 2016-09-29 | TZN | J1-02-3739 | Added SIMSHI for SIM Swap Immediate for LTE 4G. |
| 2.720 P | 2016-09-30 | RSA | OT41296 | Updated the sample promo name for QRYPRI and QRYREW from ‘Summer 2016’ to ‘Summer’ to be inline with the name being used for Play Everyday. |
| 2.721 A | 2016-11-01 | RSA | OT37176 | Added QRYMON - 3.5.156 |
| 2.722 P | 2016-11-03 | DRC | J1-02-3993 | Added LCKLGL. |
| 2.723 P | 2017-01-20 | RSA | OT40637 | Added Provisioning for ADDADB - 0 Added Provisioning for REMADB- 3.6.272 |
| 2.724 P | 2017-02-15 | RSA | OT35225 | Update VTBON1 for Vodacom Travel Data Bundles - 3.6.242 |
| 2.725 P | 2017-02-16 | RSA | OT41271 | Add new query QRYAGF - 3.5.157 |
| 2.726 P | 2017-03-13 | DRC | DC007445 | Remove business rule on CRERGL and UPDRGL that prevents postpaid subscribers using these functons. |
| 2.727 P | 2017-03-30 | RSA | OT46941 | Updated query QRYAGA - 3.5.76 |
| 2.728 P | 2017-04-03 | TZN | TZ010995 | Add REASON to M2MLCK and M2MUNL for CBA 3.6.262 3.6.262and 3.6.268. |
| 2.729 P | 2017-04-05 | TZN | TZ010995 | Add Reasons for M2MLCK and M2MUNL. |
| 2.730 P | 2017-05-15 | RSA | [J1-02-4849](https://bustelraptor.altron.com/jobOrder.do?p_action=showJobOrder&jobOrderNumber=J1-02-4849) | Remove query QRYIMS |
| 2.731 P | 2017-05-17 | DRC | DC007475 | Added new optional parameter on CRERGL. Added new function for G2 registration CREMMS. |
| 2.732 P | 2017-05-17 | DRC | DC007517 | Added new query for G2 – QRYMMT and new function UPGMMT – Upgrade MPESA Account to Premium. |
| 2.733 P | 2017-05-24 | RSA | J1-02-4667 | Added PROMO DESC to the return attributes of QRYGTU and QRYGTE queries – 3.5.109, 3.5.110 |
| 2.734 P | 2017-06-06 | DRC | J1-02-5039 | Added QIDRGL query for Papersoft to query the max count for ID and ID Types allowed. |
| 2.735 P | 2017-06-08 | DRC | J1-02-5039 | QIDRGL should be PerformFunction. |
| 2.736 P | 2017-06-13 | RSA | J1-02-4850 | Update the Travel Saver requests Table 368 Update RDMTON - 3.6.203 |
| 2.737 P | 2017-06-27 | DRC | DC007517 | Updated QRYMMT and UPGMMT to use performfunction. |
| 2.738 P | 2017-07-05 | DRC | DC007475 | CREMMS to use performfunction. |
| 2.739 P | 2017-07-19 | DRC | DC007475 | Removed U15 from ID Types. |
| 2.740 P | 2017-08-03 | DRC | J1-02-4957 | VMS\_NGCSS\_TO\_INSTAVOICE = ‘Y’ to switch provisioning from NGCSS to KIRUSA. |
| 2.741 P | 2017-08-11 | DRC | J1-02-4988 | Added new SMS text for ADDCLR and new PIN authentication. |
| 2.742 P | 2017-08-15 | DRC | J1-02-4741 | ID NO and ID Type should be optional. |
| 2.743 P | 2017-09-20 | RSA | J1-02-5501 | Update description and size of DRC3 - 3.6.242 |
| 2.744 P | 2017-09-22 | TZN | J1-02-5513 | Added 2 new functions CREDLR and ALOCSP for Agent Management System. |
| 2.745 P | 2017-09-26 | RSA | J1-02-5501 | Update description of DRC3 as input parameter for VTBON1 - 3.6.242 |
| 2.746 P | 2017-09-28 | RSA | OT54127 | Update QRYAGA input attributes - 3.5.76 |
| 2.747 P | 2017-10-02 | RSA | OT53488 | Add Red Roam service offering - 3.6.242, 3.6.243 |
| 2.748 P | 2017-10-09 | DRC | J1-02-4988 | Added New and Missing Error Codes. |
| 2.749 P | 2017-10-20 | DRC | J1-02-5440 J1-02-5807 | Highspeed function SIMCHV to log SIMCHP request type. Added ACTION TYPE to SIMCC2 for DRC. |
| 2.750 P | 2017-10-27 | DRC | J1-02-5805 | Added new input parameters for SIMCHV and validations. |
| 2.751 P | 2017-11-03 | DRC | J1-02-5440 | SIMCHV only for Prepaid Subscribers. |
| 2.752 P | 2017-11-15 | RSA | OT56103 | Update QRYAGA - 3.5.76 |
| 2.753 P | 2017-11-17 | TZN | J1-02-5513 | Updated CREDLR |
| 2.754 P | 2017-11-17 | DRC | DC007688 | Added LMSACN – Layby Auto Cancelation |
| 2.755 P | 2017-12-05 | TZN | J1-02-5513 | Updated CREDLR |
| 2.756 P | 2017-12-11 | DRC | J1-02-5806 | SIMCHV – PIN should be optional if Agent MSISDN supplied. |
| 2.757 P | 2017-12-13 | TZN | J1-02-5513 | Updated CREDLR – COMMISSION POINT and ALOCSP to use DEALER CODE and not AGENT ID. |
| 2.758 P | 2017-12-18 | RSA | OT57465 | Add MNGWSV (Manage subscriber WASP Services - 3.6.278 |
| 2.759 P | 2018-01-16 | TZN | J1-02-5517 | Added QRYPUK for Loyalty System JO. |
| 2.760 P | 2018-01-22 | TZN | J1-02-5513 | Corrected Function Selector for ALOCSP. |
| 2.761 P | 2018-01-26 | TZN | J1-02-5513 | For ALOCSP (TZN), specified that Start and End ICCID parameters must be 18 digits. |
| 2.762 P | 2018-02-02 | DRC | DC007688 | Added unique error for LMSACN. |
| 2.763 P | 2018-03-20 | DRC | J1-02-6658 | Updated Validation rules for Agent ID / MSISDN on CRERGL |
| 2.764 P | 2018-03-24 | RSA | ICAP-104 | Add two new parameters to default requests-3.6.1 Add Appendix Digital revenue reporting-5.21 |
| 2.765 P | 2018-04-13 | TZN | J1-02-6967 | TREG status not allowed for SNDSRD. |
| 2.766 P | 2018-04-18 | RSA | J1-02-6847 | Red Roam deactivation must activate last Red Travel Saver service - 3.6.243 |
| 2.767 P | 2018-04-23 | DRC | J1-02-6467 | Added MNG4GS to add / remove 4G service. |
| 2.768 P | 2018-05-16 | TZN | J1-02-6187 | New Highspeed functions to replace SNDSRD – SNDSR2. New function IDL – PerformFunctionWithAttachment. |
| 2.769 P | 2018-05-17 | RSA | ICAP-183 | New high speed function UPDCLL. - 3.6.282 |
| 2.770 P | 2018-05-18 | RSA | ICAP-183 | New Query function VTHSLS- 3.5.160 |
| 2.771 P | 2018-05-24 | TZN | J1-02-6187 | Updated SNDSR2. |
| 2.772 P | 2018-05-24 | RSA | ICAP-183 | Update Query VTHSLS- 3.5.160 |
| 2.773 P | 2018-05-28 | TZN | J1-02-6408 | Added new parameter to SETRCL and CANRCL for local credit limit. |
| 2.774 A | 2018-05-31 | RSA | J1-02-6992 | Due to IRB being decommissioned, the following queries, GNVBBA, QBNSRV and QCLLST now throw error messages that it is no longer in use. **Error! Reference source not found.**, 3.5.1, **Error! Reference source not found.**, **Error! Reference source not found.** |
| 2.775 P | 2018-05-31 | TZN | J1-02-6408 | Data Spend Limits. |
| 2.776 P | 2018-06-12 | RSA | ICAP 192 | Add new query QRYROB-3.5.161 Add new provisioning request RTRODB-3.6.283 |
| 2.777 P | 2018-06-18 | RSA | ICAP-192 | Updated new query QRYROB – 3.5.161 Updated new request RTRODB - 3.6.283 |
| 2.778 P | 2018-06-19 | RSA | ICAP-192 | Added TID to QRYROB – 3.5.161 Added DESCRIPTION as mandatory to RTRODB - 3.6.283 |
| 2.779 P | 2018-06-20 | DRC | J1-02-5695 | Add optional parameter CHANNEL to DIDREG. |
| 2.780 P | 2018-06-21 | RSA | ICAP-192 | Updated QRYROB – 3.5.161 Updated RTRODB - 3.6.283 |
| 2.781 P | 2018-06-22 | DRC | J1-02-7103 | New optional attributes for SIMSHV. |
| 2.782 P | 2018-06-22 | RSA | ICAP-192 | Updated QRYROB – 3.5.161 Updated RTRODB - 3.6.283 |
| 2.783 P | 2018-06-26 | RSA | ICAP-193 | Add new query QRYSTL-3.5.162 Add new request MNGDTL-0 |
| 2.784 P | 2018-06-27 | TZN | J1-02-6187 | Updated SNDSR2 with allowed values. |
| 2.785 P | 2018-07-02 | RSA | ICAP-193 | Add new query QRYTBN – 3.5.163 Add new provisioning request RTTDBN - 3.6.285 |
| 2.786 P | 2018-07-13 | RSA | ICAP-192 | Updated an attribute description for QRYROB - 3.5.161 |
| 2.787 P | 2018-07-18 | DRC | J1-02-7356 | Added new mandatory input parameter CONTROL\_YN to CREMMS 3.6.278. |
| 2.788 P | 2018-07-20 | RSA | ICAP-282 | Added an attribute, INSTANCE to QRYROB – 3.5.161 Added an attribute, INSTANCE to RTRODB - 3.6.283 |
| 2.789 P | 2018-07-25 | RSA | ICAP-193 | Added an attribute, INSTANCE to QRYTBN – 3.5.163 Added an attribute, INSTANCE to RTTDBN - 3.6.285 |
| 2.790 P | 2018-07-25 | RSA | ICAP-193 | Add new query VTHTBN -3.5.164 |
| 2.791 P | 2018-07-26 | DRC | J1-02-5695 | Default value to be used for optional parameter CHANNEL in DIDREG. |
| 2.792 P | 2018-07-26 | RSA | iCAP-184 | Redefined CLV values - 5.9 |
| 2.793 P | 2018-08-06 | RSA | ICAP-300 | Remove parameters for RTTDBN-3.6.285 |
| 2.794 P | 2018-08-13 | RSA | iCAP-274 | Replaced IVR PIN Status with Tenure value - 5.9 |
| 2.795 P | 2018-09-13 | RSA | ICAP-345 | Add additional parameter to QRYPRI-3.5.154 |
| 2.796 P | 2018-09-13 | RSA | REDB-11 | Added new Query QPBBDT - **Error! Reference source not found.** |
| 2.797 P | 2018-10-04 | RSA | ICAP-435 | Add new functions ADDCNT and REMCNT for Content Block - 3.6.104, 3.6.105 |
| 2.798 P | 2018-10-12 | RSA | ICAP-455 | Add new query QRYDTC for data transfer - 3.5.165 |
| 2.799 P | 2018-10-15 | RSA | ICAP-435 | Added WASP\_BLOCK\_DATE to QRABIN - Table 124 |
| 2.800 P | 2018-10-23 | RSA | ICAP-409 | Removed requests: DRGVBS, INVVBS, OPTIVB, OPTOVB, REGVBS and VALVBS - **Error! Reference source not found.**,**Error! Reference source not found.**,**Error! Reference source not found.**,**Error! Reference source not found.**, **Error! Reference source not found.**,**Error! Reference source not found.**, 0 |
| 2.801 P | 2018-10-31 | TZN | J1-02-7377 | Added LCKOEM and UNLOEM for Deposit Debtor Account, [3.6.293](#_Provision:_Lock_Subscriber), [3.6.294](#_Provision:_Unlock_Subscriber). |
| 2.802 P | 2018-11-01 | TZN | J1-02-7933 | Added new attributes to SNDSR2 for SIM Swap Compliance [3.6.287](#_Provision:_Send_Subscriber). |
| 2.803 P | 2018-11-01 | RSA | ICAP-527 | Add parameter to RTTDBN and VTHTBN and QRYTBN -3.6.285, 3.5.164,3.5.163 |
| 2.804 P | 2018-11-01 | RSA | ICAP-391 | Added extra information for field INSTANCE and SERVICE in query QRYROB-3.5.161 Added extra information for field INSTANCE and SERVICE in RTRODB - 3.6.283 |
| 2.805 P | 2018-11-08 | RSA | iCAP-147 | Update QSMINF with eSIM attribute - Table 69 |
| 2.806 P | 2018-11-09 | RSA | ICAP-527 | Add parameter to RTTDBN and VTHTBN and QRYTBN -3.6.285, 3.5.164,3.5.163 |
| 2.807 P | 2018-11-14 | RSA | REDB-11 | Added new parameter to query QPBBDT - **Error! Reference source not found.** |
| 2.808 P | 2018-11-23 | RSA | ICAP-527 | Update QRYTBN for remaining size - 3.5.163 |
| 2.809 P | 2018-11-28 | TZN | J1-02-7614 | Add EXPIRY DATE to SNDSR2 for ID for Customer Base Cleanup. |
| 2.810 P | 2018-11-30 | RSA | REDB-11 | Updated query QPBBDT - **Error! Reference source not found.** |
| 2.811 P | 2018-12-14 | RSA | REDB-11 | Updated query QPBBDT - 3.5.10 |
| 2.812 P | 2019-01-08 | RSA | ICAP-507 | Added an attribute, TYPE to QRYROB – 3.5.161 Added an attribute, TYPE to RTRODB - 3.6.283 |
| 2.813 P | 2019-01-10 | RSA | ICAP-507 | Removed attribute TYPE to QRYROB – 3.5.161 Removed attribute, TYPE to RTRODB - 3.6.283 |
| 2.814 P | 2019-01-25 | RSA | ICAP-608 | Update QRYREW change the “PROMO DESC” field to “Shake”- 3.5.147 |
| 2.815 P | 2019-01-29 | RSA | ICAP-608 | Update QRYREW change the “PROMO DESC” field to “Summer” - 3.5.147 |
| 2.816 P | 2019-02-14 | DRC | J1-02-7597 | Added SIMCHC for SIM Swap for contract subscribers. |
| 2.817 P | 2019-02-22 | DRC | J1-02-7597 | Removed underscore fro attribute AGENT MSISDN in SIMCHC [3.6.295](#_Provision:_SIM_Swap). |
| 2.818 P | 2019-03-07 | RSA | ICAP-662 | Add Validity parameter to QRYTBN and QRYDTC- 3.5.163, 3.5.165 |
| 2.819 A | 2019-03-11 | RSA | ICAP-666 | Added Expiry Date as input for RTTDBN - 3.6.285 |
| 2.820 P | 2019-03-07 | RSA | ICAP-662 | Add Validity and Period parameter to QRYTBN and QRYDTC and RTTDBN - 3.6.285, 3.5.163, 3.5.165 |
| 2.821 P | 2019-04-17 | TZN | J1-02-8746 | Added new mandatory attributes for TCRA CSIS Integration [3.6.280](#_Provision:_Send_Subscriber) SNDSR2 (TZN). |
| 2.822 P | 2019-04-18 | TZN | J1-02-8806 | Addendum to Web Biometics. [3.6.97](#_Provision:_Provision_SIM) SIMCH2, [3.6.269](#_Sim_Swap_Immediate) SIMCHI and [3.5.166](#_Query:_Subscriber_KYC) QRYKYC. |
| 2.823 P | 2019-05-07 | DRC | J1-02-8840 | Routing for Partners to 1116 Line: ADDVDE [3.6.110](#_Provision:_Add_the), MODVDE [3.6.289](#_Provision:_Update_the) and DELVDE [3.6.111](#_Provision:_Remove_the). |
| 2.824 P | 2019-05-09 | DRC | J1-02-8840 | Extended Organisation list for ADDVDE and MODVDE. |
| 2.825 P | 2019-05-10 | DRC | J1-02-7672 | iCAP Integration into New KYC Platform: [3.6.75](#_Provision:_Add_Activation) ADDAGT [3.5.167](#_Query:_User_Agent) AGTAUT [3.5.168](#_Query:_Query_KYC) QRYKIN [3.6.290](#_Provision:_Activate_and) ACTRGL [3.6.82](#_Provision:_Deregister_Subscriber) DRGSUB [3.6.79](#_Provision:_Create_Registered) CRERGL [3.6.81](#_Provision:_Update_Subscriber) UPDRGL [3.6.264](#_Provision:_Lift_Legal) UNLLGL [3.6.274](#_Provision:_Upgrade_MPESA) UPGMMT |
| 2.826 | 2019-0513 | RSA | IC212481 | Corrected Sections 3.6.103 and 3.6.104 (ADDCTB and REMCTB) to use IDL Function PerformFunction |
| 2.827 | 2019-05-10 | RSA | ICAP- 704 | Updated QPBBDT to add / remove two fields to the output list - 3.5.10 |
| 2.828 | 2019-05-14 | TZN | J1-02-8778 | Agent MSISDN on SNDSR2 must be in 12 digit format [3.6.280](#_Provision:_Send_Subscriber). |
| 2.829 | 2019-05-14 | DRC | J1-02-8840 | EVC Level to be numeric ADDVDE [3.6.110](#_Provision:_Add_the), MODVDE [3.6.289](#_Provision:_Update_the). |
| 2.830 | 2019-05-16 | TZN | J1-02-8746 | Added Transaction ID as mandatory parameter [3.6.280](#_Provision:_Send_Subscriber). |
| 2.831 | 2019-05-28 | DRC | J1-02-8840 | EVC Level to be numeric ADDVDE [3.6.110](#_Provision:_Add_the), MODVDE [3.6.289](#_Provision:_Update_the) must allow for values greater than 99. |
| 2.832 | 2019-06-06 | DRC | J1-02-7672 | DIDREG will have new optional parameter SUB UNIQUE KYC ID, [3.6.239](#_Provision:_Add_Document). Added AGENT MSISDN to DRGSUB [3.6.82](#_Provision:_Deregister_Subscriber). Added new fields on QSBPRF [3.5.14](#_Query:_Subscriber_Profile). |
| 2.833 | 2019-06-11 | TZN | TZ011937 | Updated input attribute name AGENT MSISDN to be AGENT NO to avoid validation [3.6.280](#_Provision:_Send_Subscriber). |
| 2.834 | 2019-06-13 | DRC | J1-02-7672 | ACTRGL will use execFunction [3.6.290](#_Provision:_Activate_and).  QRYKIN will return party structure [3.5.168](#_Query:_Query_KYC). ADDAGT [3.6.75](#_Provision:_Add_Activation). |
| 2.835 | 2019-06-18 | DRC | J1-02-7672 | [3.6.79](#_Provision:_Create_Registered) CRERGL expiry date format must be YYYY-MM-DD. |
| 2.836 | 2019-06-18 | TZN | J1-02-8806 | Addendum to Web Biometics. [3.5.166](#_Query:_Subscriber_KYC) QYBKYC. |
| 2.837 | 2019-06-27 | DRC | J1-02-8974 | Updated attribute list for ACTRGL [3.6.290](#_Provision:_Activate_and). |
| 2.838 | 2019-06-28 | DRC | J1-02-8974 | ACTRGL will now use PerformFunction [3.6.290](#_Provision:_Activate_and). |
| 2.839 | 2019-07-02 | DRC | J1-02-8974 | SUB ID Type for [3.5.168](#_Query:_Query_KYC) QRYKIN may only be MSISDN ‘M’. |
| 2.840 | 2019-07-03 | DRC | J1-02-8974 | ACTRGL to log ACTPPS not CRERGL and attributes removed / updated [3.6.290](#_Provision:_Activate_and). |
| 2.841 | 2019-07-04 | TZN | J1-02-9042 | Added RESMS2 for Special Number [3.6.291](#_Provision:_Reserve_Special). |
| 2.842 | 2019-07-08 | TZN | J1-02-9042 | Updated RESMS2 for Special Number [3.6.291](#_Provision:_Reserve_Special). |
| 2.843 | 2019-07-09 | TZN | J1-02-8806 | Addendum to Web Biometics. [3.5.166](#_Query:_Subscriber_KYC) QYBKYC changed to use performFunction. |
| 2.844 | 2019-07-10 | DRC | J1-02-8957 | Added new attributes on [3.6.266](#_SIM_Swap_with) SIMCHV |
| 2.845 | 2019-07-16 | DRC | J1-02-8957 | Added new attributes on [3.6.266](#_SIM_Swap_with) SIMCHV |
| 2.846 | 2019-07-16 | TZN | J1-02-9043 | Added new attributes on ADDRBT [3.6.72](#_Provision:_Activate_the) and REMRBT [3.6.73](#_Provision:_Deactivate_the) for Reverse RBT. |
| 2.847 | 2019-07-18 | DRC | J1-02-9132 | Added CSRPSR [3.6.292](#_Provision:_Create_Service) and QRYSRS [3.5.169](#_Query:_Query_Subscriber) |
| 2.848 | 2019-08-01 | TZN | J1-02-8806 | Addendum to Web Biometics Table 349. |
| 2.849 P | 2019-08-29 | RSA 19.14 | ICAP-916 | Update QSBPRF by adding an attribute for subscriber classification for Content Block US 4 - 3.5.14 |
| 2.850 P | 2019-09-02 | TZN | J1-02-9453 | Added 2 new attributes to be returned on QYBKYC [3.5.166.](#_Query:_Subscriber_KYC) |
| 2.851 P | 2019-09-04 | TZN | J1-02-9453 | LANGUAGE returned on QYBKYC [,](#_Query:_Subscriber_KYC) must be subscriber attribute not party details. |
| 2.852 P | 2019-09-30 | DRC | J1-02-9132 | Updated QRYSRS [3.5.169](#_Query:_Query_Subscriber) to use performFunction and added optional attribute MAX ROWS. |
| 2.853 P | 2019-10-18 | TZN | J1-02-9539 | Added SNDSR3 for machine and Organisation Registration, [3.6.293](#_Provision:_Send_Corporate). |
| 2.854 P | 2019-10-22 | TZN | J1-02-9545 | Added new optional attribute NAME MISMATCH on SNDSR2 [3.6.280](#_Provision:_Send_Subscriber) |
| 2.855 P | 2019-10-24 | TZN | J1-02-9539 | Corrected spelling of LICENCE [3.6.293](#_Provision:_Send_Corporate). |
| 2.856 P | 2019-10-24 | RSA | ICAP-843 | Update query QRYMON with attributes TUTORIAL COMPLETE YN and VOICE DEPOSIT ACTIVE YN – 3.5.156 Add request MNGMON - 3.6.294 |
| 2.857 P | 2019-11-03 | TZN | J1-02-9545 | Aligned date formats in SNDSR2 [3.6.280](#_Provision:_Send_Subscriber) and SNDSR3 [3.6.293](#_Provision:_Send_Corporate) |
|  | 2019-11-03 | TZN | J1-02-9539 | Aligned date formats in SNDSR2 [3.6.280](#_Provision:_Send_Subscriber) and SNDSR3 [3.6.293](#_Provision:_Send_Corporate) |
| 2.858 P | 2019-11-04 | TZN | J1-02-9545 | SIM SWAP COMPLIANCE YN and NAME MISMATCH are mutually exclusive – only one can = ‘Y’ or the function will fail. [3.6.280](#_Provision:_Send_Subscriber) |
| 2.859 P | 2019-11-08 | RSA | J1-02-9846 | Add SOID as input to ADDADB and REMADB - 0,3.6.272 |
| 2.860 P | 2019-11-18 | RSA | ICAP-1402 | Decommission RTN. Removed QRTBUN and QRTSUM - **Error! Reference source not found.**, **Error! Reference source not found.** |
| 2.861 P | 2019-11-18 | RSA | J1-02-9846 | Update SOID input to ADDADB and REMADB to be optional - 0, 3.6.272 |
| 2.862 P | 2019-11-22 | RSA | ICAP-1331 | Update QRYROM with Worry Free services - Table 215 Add RR3–RR9 with business rules for all DPR services to VTBON1 - 3.6.242 |
| 2.863 P | 2019-12-20 | DRC | J1-02-9800 | Added QRYSLN for Query Loan Eligibilty Status [3.5.170](#_Query:_Query_Loan). |
| 2.864 P | 2020-01-15 | TZN | J1-03-0092 | Added RCHTRG for Biometric Registration Fee. |
| 2.865 P | 2020-01-15 | DRC | J1-02-9634 | Update LCKADM and UNLADM modify and add new attribute 3.6.45, 3.6.46 |
| 2.865 P | 2020-01-16 | TZN | J1-03-0092 | Removed RCHTRG and added UNBAR AFTER RECHARGE YN on SNDSR2 for Biometric Registration Fee, [3.6.280](#_Provision:_Send_Subscriber). |
| 2.866 A | 2020-01-17 | RSA | ICAP-1519 | Added new Query – Norton Subscription Query as well as two new provisioning functions - 3.5.171, 3.6.295, 3.6.296 |
| 2.867 A | 2020-01-24 | RSA | ICAP-1519 | Ammended input parameters for ADDNOR and DELNOR - 3.6.295, 3.6.296 |
| 2.868 P | 2020-01-27 | RSA | ICAP-1519 | Added “\_n” to output parameters for QRYNOR, Added new function Resend SMS for Norton - 0, 3.6.297 |
| 2.869 P | 2020-02-07 | DRC | J1-02-9800 | Changed QRYSLN for Query Loan Eligibilty Status to be PerformFunction [3.5.170](#_Query:_Query_Loan). |
| 2.870 P | 2020-02-13 | TZN | J1-03-0235 | Added Biometric Deregistration requirements, [3.5.172](#_Query:_Query_Biometric), [3.6.299](#_Provision:_Deregister_Biomteric) and [3.6.300](#_Provision:_Delete_Prepaid). |
| 2.871 P | 2020-03-22 | TZN | J1-03-0374 | Updated SNDSR2 [3.6.280](#_Provision:_Send_Subscriber) and SNDSR3 [3.6.293](#_Provision:_Send_Corporate) to use new table of Registration types. |
| 2.872 P | 2020-04-22 | TZN | J1-03-0374 | Updated SNDSR3 [3.6.293](#_Provision:_Send_Corporate) for DIPL Registration type. |
| 2.873 P | 2020-05-08 | TZN | J1-03-0636 | Added new mandatory attribute TCRA STATUS to SNDSR2 [3.6.280](#_Provision:_Send_Subscriber) and SNDSR3 [3.6.293](#_Provision:_Send_Corporate) |
| 2.874 P | 2020-05-11 | TZN | J1-03-0636 | Added new attribute TCRA STATUS to SNDSR2 [3.6.280](#_Provision:_Send_Subscriber) and SNDSR3 [3.6.293](#_Provision:_Send_Corporate) and [3.5.172](#_Query:_Query_Biometric). |
| 2.875 P | 2020-05-14 | TZN | J1-03-0677 | Added new function UPTCRA to update TCRA STATUS of a registered subscriber [3.6.301](#_Provision:_Update_TCRA). |
| 2.876 P | 2020-05-20 | TZN | J1-03-0634 | Updated SNDSR2 [3.6.280](#_Provision:_Send_Subscriber) with new attributes for Minor’s Registration and [3.5.141](#_Query_Know_Your) and added new query for Minor’s KYC details [3.5.173](#_Query_Know_Your_1). |
| 2.877 P | 2020-06-19 | RSA | ICAP-2712 | Added ADDMNP and REMMNP - 3.6.301, 3.6.302 |
| 2.878 P | 2020-06-19 | TZN | J1-03-0677 | Updated function UPTCRA, registered status to be checked in DB not Highpseed [3.6.301](#_Provision:_Update_TCRA). |
| 2.879 P | 2020-06-24 | TZN | J1-03-0634 | Updated [3.5.141](#_Query_Know_Your) and [3.5.173](#_Query_Know_Your_1) - Minor is identified by sa\_party\_details.registration\_type = ‘MINR’. |
| 2.880 P | 2020-06-24 | TZN | J1-03-0677 | Add new optional attribute on QRYBPS [3.5.172](#_Query:_Query_Biometric). |
| 2.881 P | 2020-08-04 | TZN | J1-03-0634 | Corrected SNDSR2 [3.6.280](#_Provision:_Send_Subscriber) and SNDSR3 – NATIONALITY is not validated. |
| 2.882 P | 2020-08-14 | DRC | J1-03-1067 | Added checks for SIMBOX ID Blacklisting, [3.5.159](#_Query:_Query_Max), [3.6.290](#_Provision:_Activate_and) and [6.14](#_Error_Code_Mapping). |
| 2.883 P | 2020-11-27 | TZN | J1-03-1792 | Added new attributes for TCRA provisioning for CORP registration – SNDSR3 [3.6.293](#_Provision:_Send_Corporate). |
| 2.884 P | 2020-12-02 | DRC | J1-03-1712 | Added QRYCSC for Query Call Sponsor Consumption - 1, 3.5.171 |
| 2.885 P | 2020-12-10 | RSA | IC226264 | Added note that QRYBRV has been disabled in the database - 3.5.47 |
| 2.886 P | 2021-03-09 | DRC | J1-03-1712 | Updated QRYCSC - 3.5.171 |
| 2.887 P | 2021-03-11 | DRC | J1-03-2203 | Update QRYSRS – [3.5.169](#_Query:_Query_Subscriber). |
| 2.888 P | 2021-03-16 | DRC | J1-03-1712 | Updated QRYCSC - 3.5.171 |
| 2.889 P | 2021-03-28 | DRC | J1-03-2267 | Add ARPU\_THRESHOLD\_CHECK\_YN to SIMCHV and 2 new validations for ARPU and if Vendor locked [3.6.266](#_SIM_Swap_with). |
| 2.890 P | 2021-05-12 | DRC | J1-03-2394 | ARPU requirement moved to its own JO updated [3.6.266](#_SIM_Swap_with). |
| 2.891 P | 2021-05-19 | DRC | J1-03-2530 | Updated QIDRGL [3.5.159](#_Query:_Query_Max) and ACTRGL [3.6.290](#_Provision:_Activate_and) for ID capping check. |
| 2.892 P | 2021-08-23 | DRC | R3-24-0190 | Added function Migrate Offer2 (MIGPR2) for DRC 3.6.304 |
| 2.893 P | 2021-08-23 | TZN | J1-03-3008 | Added a new function ROMACT for TZN - 3.6.304 |
| 2.894 P | 2021-09-09 | RSA | IC232042 | Add a new Call Routing Flag - 5.9 |
| 2.895 P | 2021-09-29 | DRC | J1-03-3237 | Updated function Migrate Offer2 (MIGPR2) for DRC - 3.6.303 |
| 2.896 P | 2021-10-08 | TZN | J1-03-3292 | Updated function SNDSR2 for TZN - 3.6.280 |
| 2.897 P | 2021-10-13 | RSA | J1-03-3163 | Added new parameter: TRANSPORT\_KEY to SIMPRV request and QSMINF query for eSIM - 3.6.24 and 3.5.19 |
| 2.898 P | 2022-02-03 | RSA | J1-03-3800 | Updated RTTDBN input parameter examples - 3.6.285 |
| 2.899 P | 2022-08-01 | DRC | J1-03-4365 | Added new attribute OTP\_YN on 3.6.266 SIMCHV |
| 2.900 P | 2022-08-17 | DRC | J1-03-4370 | Added new attribute OTP\_4G\_YN to 3.6.266 SIMCHV |
| 2.901 P | 2022-08-30 | DRC | J1-03-4367 | Add attribute time control YN to 3.6.266 SIMCHV |
| 2.902 P | 2022-08-31 | DRC | J1-03-4370 | Added 2 new functions for DRC Sim Swap OTP functionality. VALOTP and NEWOTP. See 3.6.305 and 3.6.306 |
| 2.903 P | 2022-09-05 | DRC | J1-03-4370 | Update NEWOTP function. Remove OTP as an output attribute. See 3.6.306 |
| 2.904 P | 2022-09-08 | DRC | J1-03-4370 | Update VALOTP and NEWOTP functions. Renamed input attribute AGENT MSISDN to SUBMITTING MSISDN and made it mandatory. . See 3.6.305 and 3.6.306 |

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# Referenced Documents

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*Table 1: Referenced Documents*

| Document Reference | Identification | Name\Description | Publishing Agency | Revision\ Date |
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| [1] |  | High Speed IDL | ISIS | Tbd |
| [2] | BA 02-0131 | Contract Admin Business Rules | ISIS | Rev 1.000C 2002-11-07 |
| [3] | BA/02-0188 | Offer Definitions – All Service Providers | Vodacom | Rev 3.008 Draft 2003-10-23 |
| [4] | BA/03-0657 | ICAP Exception Messages | Vodacom | Rev 1.010 6 December 2005 |
| [5] | VCVF-909 | Specific Needs Version Feature | ISIS | Rev 1.000 C |
| [6] | VCFS-041 | VSP Offer Definition | ISIS | Latest Version |
| [7] | VCFS-042 | SP Offer Definition | ISIS | Rev 3.013 P |
| [8] | VCVF-763 | IVR Error Mapping FS | ISIS | Rev 0.004 9 December 2005 |
| [9] | TZFS-050 | Loyalty | Altech ISIS | 0.008P 2007-12-07 |
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| [14] | DRFS-021 | Postpaid Offer Definition (DRC) | Altech ISIS | Latest |
| [15] | VCFS-1179 | Bundled Viewthru Management | Altech ISIS | Rev 0.005 P 2014-07-03 |
| [16] | VCFS-1126 | PWE Manager | Altech ISIS | Rev 0.022A 2014-07-03 |
| [17] | VCFS-1844 | 14 Digit Number Plan | Altech ISIS | Latest Revision |
| [18] | DRFS-0209 | Convergent Billing Solution | Altech ISIS | Sept 2014 |
| [19] | TZFS-133 | Legal Registration Processes | Altech ISIS | Latest Revision |
| [20] | TZFS-199 | ERS | Altech ISIS | Latest Revision |
| [21] | VCID-029 | Function Selectors ICD | BUSTel | September 2016 |
| [22] | TZFS-0238 | Addendum I to SIM Registrations | BUSTel | May 2018 |
| [23] | VCVF-548 | Priority Routing | BUSTel | August 14, 2018 |
| [24] | DRURR-0184 | New Query Papa Bonheur Data Consumption | ABSI | Latest |
| [25] | DRFS-0249 | COPS Initiatives | ASI | Latest |

# Interface Specification

## Interface Purpose

The iCAP External System Interface allows 3rd Party systems to interface to the iCAP system and make use of the functionality offered by iCAP. The actual functions exposed by the interface will depend on:

* What has been implemented in the interface. These functions are documented in this specification.
* What functions the specific user is allowed to access. This access is controlled via security control.
* Which subscribers the specific user is allowed to manipulate. The execution of functions for a particular subscriber is also determined by the privileges that have been configured for a user via the security model in iCAP.

## Interface Context

The External systems shall interface to the iCAP system as indicated in Figure 1.

For DRC ZTE http/xml implementation see Figure 2.

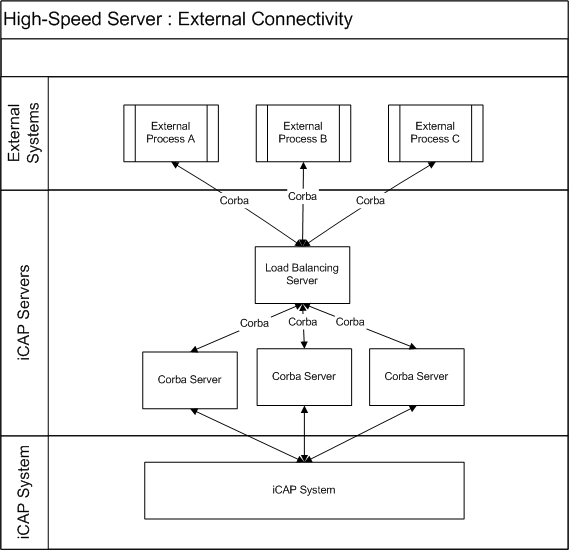


Figure 1 : Interface context



Figure 2: ZTE http/xml Implementation

## Interface technology

The interface to iCAP is implemented using CORBA method calls to CORBA servers. The CORBA compliant ORB under which iCAP operates is Orbix from Iona Technology. The current version of the ORB at implemented for iCAP at time of writing is v2000 (Windows NT).

The external system is required to implement a CORBA client, which can access an Orbix based server and execute the relevant methods.

## Server resolution

A CORBA naming server is not used. The client binds directly the load balancing High Speed interface server using a server reference (IOR string), which consists of a host name (if DNS or local host table is available) or a host IP, and a server name. In order to allow for fail over to a second server in the event that the primary is unavailable, a secondary server reference is supplied.

## Interface security

### User authentication

The external system is required to authenticate itself via a user ID, domain (optional), password and origin ID combination. Authentication is performed via a method call. This method call returns a security key and a user ID, which must be submitted for all future function calls along with the origin ID. A combination of the security key and user ID is used by the High Speed Server to validate all future requests. The High Speed Server will prevent more than a single login for a specific user at any point in time. Multiple connections can use the same username, origin ID and security key combination.

The origin ID is a 2-character code depicting the originating source that the query or request is coming from. This origin ID code will be supplied by Vodacom on request and will be unique for each different 3rd party connecting to the High Speed interface.

This username is the username of a standard iCAP user. There will be no permanent passwords in iCAP.

**NB: ORIGIN ID to be used by ZTE will be ‘ZT’**

### Security key timeout

There is no timeout period on the security key. If the client should lose the security key for any reason the client is required to log in to the HighSpeed interface again using the required parameters – username, password and origin ID. This will have the effect of invalidating any security key that was previously associated with the user name, and generating a new security key. All clients that were connected to the HighSpeed interface using the same user name and ‘old’ security key will be unable to perform requests until the new security key has been indicated to the clients.

### Authentication Domain

Currently the user is authenticated on iCAP. The system may request that the user is to be authenticated on an external domain. The external domain name for the authentication shall be prepended to the user name in the following format:

<*domain name*>\<*user name*>

If the domain name is omitted, the default domain shall be used for authentication. Currently the default domain is iCAP – this is current functionality.

For following conditions must exist for a user to be authenticated on an external domain:

* The domain name shall be pre-registered in iCAP.
* The user profile in iCAP shall indicate the external authentication domain.

The following user name formats are valis:

<*user name*>

\<*user name*>

<*domain name*>\<*user name*>

# Interface functionality

## Methods

The following methods are available via the interface IDL

* PerformLogOn(Username,Password,SecurityKey)
* PerformLogOff(UserId, SecurityKey)
* PerformFunction(,)
* ExecFunction(originId, userID, securityKey, FunctionSelector, AttributeList, ServiceActionList, ActionAttributeList, Party, RequestResultList) originId, userId, SecurityKey,FunctionSelector, InOutAttributeList
* QueryFunction(originId, userID, securityKey, FunctionSelector, AttributeList, ServiceActionList, ActionAttributeList, Party, SubAttributeList , RequestResultList)
* Lookup (userId, securityKey, originId, queryType, lookupList)
* ValidateSecurityKey(SecurityKey)
* PerformFunctionWithAttachment(originId, userId, SecurityKey,FunctionSelector, InOutAttributeList,AttachmentList)

Refer to the IDL included in [1] for the definition of these parameters.

## Interfacing Notes

*The following must be noted*:

* The client system may in some cases be required to pass a parameter returned from a function call as an input parameter to a following call, e.g. to query the commands for a request, the applicable request sequence number of the specific request must first be obtained via a query of all/outstanding requests.
* The data returned from a network element is unformatted. The client system will be required to parse and format the returned data as required.
* The client system will be required to translate returned parameters to appropriate descriptions if required, e.g. ‘M’ = Master, ‘S” = Slave etc. These values will be indicated in the return parameters of the queries and provisioning requests.
* It will be possible to request that a SMS be sent to the subscriber on successful completion of some functions. The SMS text will be configured on the iCAP system per function type and may be configured in more than one language (Maximum 11 official languages). If it is desired that the standard request SMS be sent and the SMS is not configured in the specified language, but is configured in the default language of ‘ENG’ or English, an English version of the SMS will be sent to the subscriber. If the send SMS flag is set to ‘Y’ and a language parameter is not included in the function, the default language of English will be used to determine the SMS text. If there is no SMS configured for the request type, then no SMS will be sent.
* In order for the subscriber to receive a SMS, the subscriber must have a T21 (SMS-Mobile Terminating) service. T21 services are provisioned by default when the subscriber is provisioned with a T11 service. If the subscriber does not have a T11 service & by default a T21 service, the subscriber will be unable to receive any SMS’s. Similarly, if the subscriber is locked for incoming calls or full locked, the subscriber will not be able to receive any SMS’s. The send SMS flag & language parameters are available on every function, but that does not guarantee that a SMS will be sent on every occasion or that if a SMS is sent, that the subscriber will receive it.
* The functions introduced in this API are controlled by a set of Vodacom business rules. These business rules are further documented in specification [2] and this document should be interpreted together with this specification in order to ensure accurate implementation of this functionality.
* Every function executed via the High Speed API shall be validated to ensure that the user has access to the subscriber for whom the function is attempted.
* MSISDN 10 digit format is the format as follows: An MSISDN in the format nnxxyyyyy where nn = NDC, xx = logical HLR e.g. 98, and yyyyy = last 5 digits of MSISDN e.g. *‘12345’ e.g. 0829812345.*
* When an MSISDN is a 14 Digit length MSISDN the 15 digit input format shall be used. Please see [17] and 3.2.2 for more information on the 14 Digit MSISDN's.
* If the security key becomes invalid for any reason the client shall be able to log on again and receive a new security key. If there are any other client connections using the old security key, these client connections shall fail. The other client connections shall be required to use the new security key to perform requests again. How the client receives the new security key is not part of this specification – it is part of the client’s system logic.
* Exceptions will be handled in an exception object containing a group type, and error code and an error description. Please refer to [8] for more information on the error handling, and section 5.14 for the error codes.
* Highspeed will connect to the database for all security related functions using the ‘SecurityDatabase’ node config parameters instead of the ‘Database’ node config parameters. This will enable Highspeed to use one database for security related functionality and another database for non-security related functionality.
* The external reference number passed to the HSI by an external system must be written to the log file. This functionality shall be able to be activated/ deactivated via configuration.

### Subscriber Identification:

iCAP has to identify the subscriber the query is intended for when a query is processed on iCAP.    The external systems use the identifiers such as MSIDN and ICCID to identify the subscriber.   iCAP attempts to identify the subscriber by finding the profile the identifier is linked to.

iCAP processes the identification of the subscriber in the following manner:

1. Search for the identifier as an active identifier on an active subscriber (a subscriber that is not deleted)
2. If the identifier is not found on an active subscriber then search for the last subscriber profile the identifier was linked to.  The last subscriber profile  may be one of the following:
3. A deleted subscriber profile
4. An active subscriber profile where the identifier has been swapped out or service change has taken place e.g.
5. An MSISDN change
6. A SIM Swap
7. A service has been deleted

This may appear misleading as a profile of an active subscriber may be returned and this profile does not reflect the ‘deleted’ identifier, but the current active identifiers linked to the subscriber.  iCAP processes the subscriber search in this manner to get to the last subscriber the identifier was linked to.

1. If the identifier (MSISDN) is reused the new subscriber will be returned in the subsequent action in iCAP

The following table lists the common subscriber ID's used in the interface.

Each function will list the ID's that are applicable to the function.

*Table 2:* *Subscriber Identifiers*

|  |  |  |
| --- | --- | --- |
| ID Type | Indicators | Description and Examples |
| MSISDN | M, MSISDN | Subscriber’s MSISDN e.g. 0829805010 (10 digit MSISDN)  or 279612312345678 (15 Digit MSISDN)  Note: The 15 Digit MSISDN format is used for the 14 Digit length MSISDN. |
| ICCID | C, ICCID | Subscriber’s ICCID e.g. 89980000000000015682 - 20 digit format |
| IMSI | S, IMSI | Subscriber IMSI value e.g. 655019800005125 - 15 digit format |
| MSIN | I, MSIN | Subscriber’s MSIN e.g. 9800005125 10 - digit format |
| IMEI | IMEI | The handset mobile equipment Identifier 14 -17 digits |
| External SP ID | E, SP\_ID | SP’s subscriber reference number (Contract subscribers only, where recorded on iCAP. |
| Subscriber ISDN | Y, ISDN | Directory Number ISDN - Landline |
| ADSL User Name | K, USER\_NAME | Subscribers ADSL User Name |
| ICAP ID | Q | The ICAP ID - the unique number given to each subscriber by the ICAP system |
| SMARTCARD | SMARTCARD | DSTV Subscriber’s SMARTCARDART |
| DECODER | DECODER | DSTV subscriber decoder number |
| SPACK | SPACK | Reference Number on the Starter pack (MSISDNless Starter Pack) |
| PORTING\_ID | 2 | The PORTING ID string |
| Enterprise ID | $ | OneNet Business Enterprise ID |

### MSISDN Format Changes

A distinction between MSISDN **Length** and **Format** is defined as follows.

1. **MSISDN Length:** It refers to the length of the MSISDN as it is defined in the public number range e.g. 10 or 14 digits.
2. **MSISDN Format:** It refers to the format in which the MSISDN is passed between systems on the interfaces. The current supported formats are either 10 or 15.

iCAP will update the interface to support the existing MSISDN Format of 10 digits, but add the structures to additionally support a 15 digit Format MSISDN.

MSISDNS with the length of 14 digits shall be passed to iCAP in the 15 digit Format.  All MSISDNS which have a length of 10 digits, should still use the existing 10 digit format although the 15 digit format will be accepted if used.

**Examples:**

1. MSISDN with length 10 = 0821231234, supported formats in 10 and 15 digits = 0821231234, and 270821200031234
2. MSISDN with length 14 = 09612312345678,  supported Format in 15 digits = 279612312345678

## Login Method

The Logon method shall be used to log the external user onto the iCAP system, and perform the validations for what functions the user can perform. The High Speed manager will return a userID and a Security Key that is required in the subscriber query and provisioning transactions. The logon requests are the following:

* PerformLogOn()
* PerformLogOff()
* ValidateSecurityKey(SecurityKey)

### PerformLogOn Method

The PerformLogOn method is used to log the external user onto the High Speed Server. A userID and key is returned to the client. The return values are used in further requests to the High Speed Server.

*Table 3: PerformLogOn Input Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| originId | String | The Origin ID of the calling client |
| userName | String | The user name and authentication domain (optional) of the external client attempting to access the High Speed interface in the format defined in 2.5.3 |
| passWord | String | User’s password e.g. abc*12345* |

*Table 4: PerformLogOn Out Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| userId | Number | ICAP User ID |
| securityKey | String | Unique key for the logged on subscriber |

### PerformLogOff Method

The PerformLogOff method is used to log the external user onto the High Speed Server. A userID and key returned to the client. These return values are used in further request to the High Speed Server.

*Table 5: PerformLogOff Input Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| originID | String | The Origin ID of the calling client |
| userID | Number | ICAP User ID |
| securityKey | String | Unique key for the logged on subscriber |

There are no parameters returned from the PerformLogOff method. If the log off fails an exception will be raised indicating the error result.

### ValidateSecurityKey Method

The ValidateSecurityKey method shall be used to validate a security key. The method call returns true if the key is valid, or false if the key is invalid.

*Table 6: PerformFunction Input Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| securityKey | String | Unique key for the logged on subscriber |
| userId | Number | iCAP User ID |
| originId | String | The Origin ID of the calling client |

## Service Request Methods

The Service Request methods shall be used after a user has logged onto the iCAP system. It will allow the user to execute queries, parameter lookups and provision service requests. The Service Request methods are the following:

* PerformFunction()
* PerformFunctionWithAttachment()
* ExecFunction()
* QueryFunction()
* Lookup()

### PerformFunction Method

The PerformFunction method shall be used to perform certain query and provisioning requests in the iCAP system using IDL method ‘PerformFunction’.

*Table 7: PerformFunction Input Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| userId | Number | ICAP User ID |
| securityKey | String | Unique key for the logged on subscriber |
| originId | String | Origin ID of the 3rd part client |
| functionSelector | String | Query or Provisioning Function to be executed. See Table 30 & Table 368 for the FunctionSelector Values. |
| attributeList | String | See sections 3.5 & 3.5.15 for the attributes for specific query and provisioning requests. The attribute list structure is defined in 5 |

*Table 8: PerformFunction Out Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| attributeList | String | See sections 3.5 & 3.5.15 for the attributes for specific query and provisioning requests. The attribute list structure is defined in 5 |

### ExecFunction Method

The ExecFunction method shall be used to perform certain provisioning requests in the iCAP system where personal information and/or subscriber attributes are provisioned. These are performed using IDL method ‘ExecFunction’. Note that this method has additional structures, which must all be initialised to null or populated on every call of this method.

*Table 9: ExecFunction Input Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| userId | Number | ICAP User ID |
| securityKey | String | Unique key for the logged on subscriber |
| originId | String | Origin ID of the 3rd part client |
| functionSelector | String | Query or Provisioning Function to be executed. See Table 30 & Table 368 for the FunctionSelector Values. |
| attributeList | String | See sections 3.5 for the attributes for specific query and provisioning requests. The attribute list structure is defined in 5 |
| serviceActionList | Structure | See  Table *10* for details |
| partyDetails | Structure | See Table 11 for details |
| actionAttributeList | Structure | See  Table *16* for details |

*Table 10: ServiceActionList Structure*

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| currentSoId | Optional | Used | Service Offering ID to be activated, deactivated or migrated. Values defined in: [6] & [7] – Required for deactivation of a service offering. Required for migration of a service offering. **Mandatory for activation of a new service offering.** |
| newSoId | Optional | String | Service Offering ID to be migrated to. Values defined in: [6] & [7]– **only required for service offering migration**. |
| actionType | Mandatory | String | Values defined in section 5.8 |
| sid1Type | Optional | String | Identifier type for service offering being activated e.g. M (MSISDN) or C (ICCID) for Twincall service.  Values defined in section 5.8 |
| sid1 | Optional | String | Identifier. Format as per section 5.8 |
| sid2Type | Optional | String | Alternative identifier type if necessary. As per SID1\_TYPE |
| sid2 | Optional | String | Alternate identifier if necessary. As per SID1 |
| sid3Type | Optional | String | Alternative identifier type. As per SID1\_TYPE |
| sid3 | Optional | String | Alternate identifier if necessary. As per SID1 |
| sid4Type | Optional | String | Alternative identifier type. As per SID1\_TYPE |
| sid4 | Optional | String | Alternate identifier if necessary. As per SID1 |

*Table 11: Personal Information (Party) Structure*

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| icapId | Optional | String | The Party Identifier for the subscriber – not used in provisioning |
| icapRole | Optional | String | The party identifier type – not used in provisioning |
| titleId | Mandatory | String | Values determined by lookup as defined in section 0 |
| surname | Mandatory | String | Maximum 64 characters |
| firstName | Mandatory | String | Maximum 20 characters |
| initials | Mandatory | String | Maximum 4 characters |
| langCode | Mandatory | String | Values determined by lookup as defined in section 0 |
| birthDate | Optional | String | Subscriber’s date of birth e.g. 1965-01-01 |
| activeYN | Optional | String | Null |
| listedYN | Optional | String | Listed in national directory. Values: ‘Y’ or ‘N’ |
| gender | Optional | String | Values: ‘F’ or ‘M’ |
| contactList | Mandatory | Structure | Refer to  Table 12 – ContactList (tPartyContactList*)*, one or more contacts can be created. The street address must be created. |
| idList | Mandatory | Structure | Refer to  Table 13 – IDList (tPartyIdList*)*, one ore more ID’s can be created |
| roleList | Mandatory | Structure | Refer to  Table 14 – RoleList (tPartyRoleList*)*, one or more roles can be created |
| contactNumList | Optional | Structure | Refer to  Table 15 – ContactNumList (tPartyContactNumList*)*, one or more contact numbers can be created. |

*Table 12: ContactList (tPartyContactList) Structure*

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| seq | Optional |  | Null |
| addressInd | Mandatory | String | Values: ‘P’ – Postal, ‘S’ – Street, ‘D’ – Delivery. If the same address is used for more than one address type, send a comma delimited list of indicators e.g. for postal & street address ‘P,S’. For Delivery & Postal ‘D,P’ |
| fromDate | Optional | String | Null |
| address1 | Mandatory | String | Maximum 100 characters (optional for DRC – if no data supplied send ‘-‘ to DB) |
| address2 | Optional | String | Maximum 100 characters (optional for DRC – if no data supplied send ‘-‘ to DB) |
| address3 | Optional | String | Maximum 100 characters (optional for DRC – if no data supplied send ‘-‘ to DB) |
| suburb | Mandatory | String | Maximum 60 characters |
| town | Mandatory | String | Maximum 40 characters |
| toDate | Optional | String | Null |
| postalCode | Mandatory | String | Maximum 10 characters. Values determined by lookup as defined in section 0 |
| countryId | Mandatory | String | ISO Country Code – Values determined by lookup as defined in section 0 |
| \_region | Null | String | Province, state or region in which the town of the subscriber is located. Region is derived from the post code submitted by the user. |

*Table 13: IDList (tPartyIdList) Structure*

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| seq | Optional |  | Null |
| countryId | Mandatory | String | ID Nationality. Values determined by lookup as defined in section 0. **Optional if ID\_TYPE = ‘@’** |
| idNumber | Mandatory | String | Maximum 40 characters |
| idType | Mandatory | String | Values: ‘N’ – SA ID document, ‘P’ – passport or ‘B’ – Business Registration number, ‘@’ – Email address |

*Table 14: RoleList (tPartyRoleList) Structure*

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| seq | Optional |  | Null |
| roleType | Mandatory | String | Values: ‘S’ – Subscriber |
| suSeq | Optional |  | Null |

*Table 15: ContactNumList (tPartyContactNumList) Structure*

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| seq | Optional |  | Null |
| countryCode | Mandatory | String | Dialing code for the country in which the number is located e.g. ‘27’ for South Africa, ‘44’ for the United Kingdom  Maximum 15 characters |
| areaNetCode | Mandatory | String | Dialing code for the national area in which the number is located e.g. ‘11’ for Johannesburg or ‘21’ for Cape Town or ‘82’ or ‘72’ for Vodacom  Maximum 15 characters |
| dialNum | Mandatory | String | Dialed service number e.g. ‘4256160’ or if mobile phone entered, e.g. 0829805125 – ‘9805125’  Maximum 15 characters |
| type | Mandatory | String | B – Business Contact Number, F – Fax number, H – Home contact number, Maximum 1 character |

*Table 16: Subscriber Attribute Action (ActionAttributeList) Structure*

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| satId | Mandatory |  | Attribute type identifier e.g. ‘CCI’ as determined from subscriber attributes lookup query. Values determined by lookup as defined in section 0. |
| currentSacId | Optional |  | Current attribute value being replaced or terminated – if subscriber already allocated to an attribute type, e.g. ‘VIP’ as determined from subscriber attributes query. **Mandatory if subscriber attribute is being migrated[[1]](#footnote-2) or terminated.** Values determined by lookup as defined in section 0. |
| newSacId | Optional |  | New attribute value replacing the existing value if any – if subscriber is being allocated to an attribute type, e.g. ‘VIP’ as determined from subscriber attributes lookup query. **Mandatory if subscriber attribute is being created.** Values determined by lookup as defined in section 0. |
| dateFrom | Optional |  | Date from which the change in attribute is applicable, typically system date. **Mandatory if subscriber attribute is being created.** |
| dateTo | Optional |  | Date to which the change in attribute is applicable, typically system date. **Mandatory if subscriber attribute is being terminated.** |

*Table 17: ExecFunction Out Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| attributeList | String | See sections 3.5 & 3.5.15 for the attributes for specific query and provisioning requests. The attribute list structure is defined in 5 |

### ExecFunction2 Method

The ExecFunction2 method is a new method has new structures in addition to all parameters supported by ExecFunction.

Note that this method has additional structures, which must all be initialised to null or populated **on every call of this method**.

*Table 18: DoFunctionEx4 Input Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SecurityKey | String | Unique key for the logged on user |
| FunctionSelector | String | Query or Provisioning Function to be executed. |
| Isis:AttributeList | String | Described in the following section for each function type |
| Party | Structure | See Table 11 for details |
| ActionAttributeList | Structure | See Table *16* for details |
| ContactNumberList | Structure | See Table 19 for details. |
| NotificationPreferenceList | Structure | See Table 20 for detail**s.** |

*Table 19: Contact Number List Structure*

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| actionType | Mandatory | String | CRE / DEL |
| seq | Optional |  | Null |
| countryCode | Mandatory | String | Dialling code for the country in which the number is located e.g. ‘27’ for South Africa, ‘44’ for the United Kingdom |
| areaNetCode | Mandatory | String | Dialling code for the national area in which the number is located e.g. ‘11’ for Johannesburg or ‘21’ for Cape Town or ‘82’ or ‘72’ for Vodacom |
| dialNum | Mandatory | String | Dialled service number e.g. ‘4256160’ or if mobile phone entered, e.g. 0829805125 - ‘9805125’ |
| contactType | Mandatory | String | Refer to Appendix M for full set of Contact Types |
| fromDate | Mandatory | Date | The date from which the contact number is valid. YYYY-MM-DD HH24:MM:SS |
| toDate | Optional | Date | The date to which the contact number is valid. YYYY-MM-DD HH24:MM:SS |

*Table 20: Notification Preference List Structure*

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| actionType | Mandatory | String | CRE / DEL |
| timeslotCategory | Mandatory | String | Time slot category |
| contactType | Mandatory | String | Contact type |
| notificationCategory | Mandatory | String | Notification category |
| defaultValue | Mandatory | String | Default value |
| fromDate | Mandatory | Date | The date from which the notification preference is valid. YYYY-MM-DD HH24:MM:SS |
| toDate | Mandatory | Date | The date to which the notification preference is valid. YYYY-MM-DD HH24:MM:SS |

*Table 21: ExecFunction2 Out Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| RequestResultList | String | See sections below for the attributes for specific query and provisioning requests. The attribute list structure is defined in **Error! Reference source not found.** |

### QueryFunction Method

The QueryFunction method shall be used to perform certain query requests in the iCAP system where personal information and/or subscriber attributes are queried. These are performed using IDL method ‘QueryFunction’. Note that this method has additional structures, which must all be initialised to null or populated on every call of this method.

*Table 22: QueryFunction Input Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| userId | Number | ICAP User ID |
| securityKey | String | Unique key for the logged on subscriber |
| originId | String | Origin ID of the 3rd part client |
| functionSelector | String | Query Function to be executed. See Table 30 for the FunctionSelector Values. |
| attributeList | String | See sections 3.5 for the attributes for specific query requests. The attribute list structure is defined in 5 |

*Table 23: QueryFunction Out Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| attributeList | String | See sections 3.5 & 3.5.15 for the attributes for specific query requests. The attribute list structure is defined in 5 |
| serviceActionList | Structure | See  Table *10* for details |
| partyDetails | Structure | See Table 11 for details |
| actionAttributeList | Structure | See  Table *16* for details |
| subAttributeList | Structure | See Table 24 for details |

*Table 24: Subscriber Attribute (SubAttributeList) Structure*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| dateFrom | String | The Date the Attribute started in ‘YYYY-MM-DD HH:MI:SS’ format |
| dateTo | String | The Date the Attribute is applicable till in ‘YYYY-MM-DD HH:MI:SS’ format. t |
| attCatID | String | The Attribute Category ID |
| attCatDescription | String | The Attribute Category Description |
| attTypeID | String | The Attribute Type ID |
| attTypeDescription | String | The Attribute Type Description |
| benefitStartDate | String | The date the benefit started – if applicable for this attribute – only applicable to VCRP attributes. |

### Lookup Method

The Lookup method shall be used to perform lookups of lists of parameters that are required as inputs into various functions.

*Table 25: Lookup Input Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| originId | String | iCAP\_int |
| userId | Number | ICAP User ID |
| securityKey | String | Session Key for logged –on user |
| functionSelector | String | Default to “LOOKUP” |
| lookupList | String | See Table *26*. |

*Table 26: Lookup List Format*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| actionType | Number | Function Selector for which lookup is being performed. As per Table 368. |
| elementTwo | String | See ? for the attributes for specific lookups |
| elementThree | String | See ? for the attributes for specific lookups |
| elementFour | String | See ? for the attributes for specific lookups |
| elementFive | String | See ? for the attributes for specific lookups |
| elementSix | String | See ? for the attributes for specific lookups |
| elementSeven | String | See ? for the attributes for specific lookups |

### PerformFunctionWithAttachment Method

The PerformFunction method shall be used to perform certain query and provisioning requests in the iCAP system using IDL method ‘PerformFunction’.

*Table 27: PerformFunctionWithAttachment Input Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| userId | Number | ICAP User ID |
| securityKey | String | Unique key for the logged on subscriber |
| originId | String | Origin ID of the 3rd part client |
| functionSelector | String | Query or Provisioning Function to be executed. See Table 30 & Table 368 for the FunctionSelector Values. |
| attributeList | String | See sections 3.5 & 3.5.15 for the attributes for specific query and provisioning requests. The attribute list structure is defined in 5 |
| attachmentList | String | The attachment list consisting:   * Id - Image Identifier e.g. :   1. Customer Picture   2. ID Front   3. ID Back   4. Customer Signature   5. Agent Signature. * FileName (Optional) * MimeType * Content (Mandatory) Raw Image Data |

*Table 28: PerformFunction Out Parameters*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| attributeList | String | See sections 3.5 & 3.5.15 for the attributes for specific query and provisioning requests. The attribute list structure is defined in 5 |

### General actions to perform actions via the High Speed interface

The following actions are an example of connecting to the High Speed interface and performing actions to query and provisioning subscriber information.

1. Connect to the Corba High Speed Server using an IOR string.
2. Logon to the High Speed interface using the PerformLogOn method
3. Process query and provisioning requests using the PerformFunction / ExecFunction / QueryFunction method. This method call can be repeated until the external client has no more requests.
4. Log off from the High Speed interface using the PerformLogOff method

## Query Functions

**Note: MSIN is not a valid SUB ID TYPE on the High Speed Interface.**

### Default Input Parameters

All the requests have optional and mandatory parameters that add additional information to the request, or indicate that a response message should be generated for the action requested. The parameters are listed below for brevity, and apply to all the request types unless otherwise indicated.

*Table 29: Default Input Parameters*

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| ORIGIN ID | Mandatory | String(2) | The Origin ID as supplied by Vodacom. |
| EXTERNAL REF | Optional | String(15) | Maximum 15 characters – unique to the function type. |
| SEND SMS | Optional | String(1) | ‘Y’ or ‘N’ – send SMS when request completed successfully. Default = ‘N’. |
| LANGUAGE | Optional | String(3) | 3-character string of the language the sms must be sent in. Default = ‘ENG’ (The languages available for use should now be determined by a lookup as defined in section 0.  Table 716) |
| IP ADDRESS | Optional | String(15) | The IP Address of the originating system calling the query request. Validation on iCAP shall confirm that a valid IP address is supplied i.e. [www.xxx.yyy.zzz](http://www.xxx.yyy.zzz) where www/xxx/yyy/zzz is a number 0-255 and will be logged to audit trails for use by the external system. |

The following Query Functions are available in the High Speed interface as listed in Table 30. Not all queries are available to all subscribers. The ‘applicable’ column in Table 30 indicates which type of subscribers the query applies to. The client shall ensure that query and request provisioning is performed for the correct type of subscriber.

*Table 30: Query Functions available in the High Speed Interface.*

| Function Selector ID | Function Selector Description | Subscribers Applicable to: Contract/Prepaid/Hybrid/All |
| --- | --- | --- |
| QPYMTH | Return the subscriber payment method as reflected in the iCAP system. | Contract, Prepaid & Hybrid |
| QINACB | Return the subscriber’s IN Account Balance on the IN platform. | Prepaid & Hybrid |
| QLSTCL | Return the subscriber’s Last 10 Calls in the previous 30 days | Prepaid & Hybrid |
| QATWND | Return the subscriber’s Airtime Window Expiry Date | Prepaid |
| QBNDET | Return bundle details for all bundle services | Contract, Prepaid & Hybrid |
| QBNSMY | Return Bundle summary info for USSD | Initially Contract, later Prepaid & Hybrid |
| QSINFO | Query Subscriber information | Contract, Prepaid & Hybrid |
| QCSLNK | Query the CallSponsor Links of a subscriber | Contract, Prepaid &Hybrid |
| QGRYST | Query the Greylist status of a Handset | Contract, Prepaid & Hybrid |
| QSBPRF | Query the subscriber’s profile | Contract, Prepaid & Hybrid |
| QSBSRV | Query the subscriber’s services | Contract, Prepaid & Hybrid |
| QIMEIL | Query IMEI List | Contract, Prepaid & Hybrid |
| QSTTYP | Query Itemised Statement Type | Prepaid & Hybrid |
| QSBSHR | Query Siebel Self Help Requests | Contract, Prepaid & Hybrid |
| QSBATT | Query Subscriber Attributes | Contract, Prepaid & Hybrid |
| QSMINF | Query SIM Information | Contract, Prepaid & Hybrid |
| QRYPIN | Query PIN Details | Contract, Prepaid & Hybrid |
| QCRFLG | Query Call Routing Flag | Contract, Prepaid & Hybrid |
| HNDMKM | Query Handset Make Model | Contract, Prepaid & Hybrid |
| QRGINF | Query Subscriber Registration Information. | Contract, Prepaid & Hybrid |
| QPBSRV | Query Prepaid /Hybrid SMS Bundle. | Prepaid & Hybrid |
| QVLPKG | Query Vodafone Live Packages | Contract, Prepaid & Hybrid |
| QVLTRN | Query Vodafone Live Transaction Details | Contract, Prepaid & Hybrid |
| QVLCRD | Query Vodafone Live Credit Details | Contract, Prepaid & Hybrid |
| QFCTRE | Query Free Change Transaction Eligibility | Prepaid |
| QSRMSR | Query SRM Service Requests | Contract, Prepaid & Hybrid |
| QDFMSI | Query the Data and FAX MSISDNS | Prepaid |
| QVLPTR | Query Vodafone Live Transaction Details for a package | Contract, Prepaid & Hybrid |
| QRYFAF | Query Friends and Family Service | Contract, Hybrid, Prepaid |
| VTHEML | Query Vodacom Email Service details | Contract, Prepaid & Hybrid |
| QRYADC | Query Adult Content details | Contract, Prepaid & Hybrid |
| QRYPLP | Query Prepaid Loyalty Points | Prepaid |
| QRYPLT | Query Prepaid Loyalty Transactions | Prepaid |
| QVRHIS | Query Voucher Recharge History | Prepaid & Hybrid |
| QCLVAS | Query VAS Call Limit Lock Parameters | Contract |
| QCLTMP | Query VAS Temporary Call Limit Lock Parameters | Contract |
| QRYINT | Query Prepaid Loaylty IN Tariff discount | Prepaid |
| QRYPAR | Query Party Information | Contract, Prepaid & Hybrid |
| QSBSUM | Query Subscriber Information Summary (short fast query) | All |
| QRYHND | Query Subscriber Handsets | All |
| QRYEBA | Query Entrant’s Competitino Entry Balance | All |
| QRYVLP | Query Subscriber VLP service offering status | Contract and Hybrid |
| QASBUN | Query All Subscriber Bundles | Prepaid and Hybrid |
| QCLLSE | Query Call Limit Lock Settings – iCAP | Contract and Hybrid |
| QRYPOO | Query Proof of Ownership | All |
| QUNPKG | Query Unified Package | All |
| QBNASM | Return Bundle summary info | All |
| QRYBSS | Query Bulk SMS Service Information | Prepaid or postpaid |
| QRYPRO | Query Promotional Data bundle details | Prepaid |
| QRYHSB | Query Heritage Subscriber Profile | TZN |
| QNTFPR | Query notification Preferences | Contract, Prepaid & Hybrid |
| QRBBAL | Query Bundle Balance | Prepaid and Hybrid (DRC) |
| QRTSUM | Query Summarised RTN Bundle Information | Contract |
| QRYVBP | Query Voice Biometrics Profile | All |
| QATFLG | Query Attribute Flag | All |
| QSSINF | Query Specified Subscriber information | Contract, Prepaid & Hybrid |
| MSAUTH | Authenticate MSISDN | DRC – All |
| QBNDTC | Query Bundle details – Contract | Contract |
| QBNASC | Query All Bundle Summary Detail – Contract | Contract |

If there is no data found for the MSISDN provided, there shall be a NO DATA exception returned to the client. The NO DATA exception shall also be returned if the MSISDN is an invalid MSISDN.

### Query: Payment Method {QPYMTH}

IDL Function: PerformFunction

Function Selector: QPYMTH

This query returns the type of payment method for a particular subscriber.

*Table 31: Query: Payment Method – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 32: Query: Payment Method – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| PAYMENT\_METHOD | String | This field indicates hybrids as contract payment method ‘C’ = ‘Contract’  ‘P’ = ‘Prepaid’ |
| PAYMENT\_TYPE | String | This field distinguishes hybrids from pure postpaid contracts ‘C’ = ‘Contract’  ‘P’ = ‘Prepaid’ ‘M’ = ‘Mixed’ (Hybrid) |

Note: Hybrid subscribers are reflected as Contract payment subscribers in PAYMENT\_METHOD and this is in use in RSA. In addition PAYMENT\_TYPE has been added to differentiate hybrids from contracts, and this is in use in DRC. The subscriber table is queried for payment method (P/C), and the offer table is queried for payment type (P/C/M).

The current RSA offers that indicate a Hybrid subscriber are listed in Table 33 for information.

*Table 33: Current Hybrid Offers*

|  |  |
| --- | --- |
| Offer ID | Description |
| WTP | Weekend Top Up |
| BTP | Business Top Up |
| 5TP | Top Up 590 |
| LTP | Top Up Lite |

### Query: IN Account Balance {QINACB}

IDL Function: PerformFunction

Function Selector: QINACB

This query returns the IN account balance for a subscriber.

*Table 34: Query: Subscriber services – In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 35: Query: Subscriber services – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| IN\_ACCOUNT\_BALANCE | String | Value in Rands, e.g. 13.50 – for DRC see rule below. |
| Airtime Advance Balance | String | Value in Rands e.g. R-15.00 |
| IN\_HOSTED\_PROMO\_MINUTES | String | Value in Minutes and Seconds e.g. 15 Minutes and 0 Seconds |

For DRC – IN\_ACCOUNT\_BALANCE will contain the value for:

* Accounttype = 2000 if this is the only balance returned (prepaid)
* Accounttype = 3000 if this is the only balance returned (postpaid)
* Accounttype = 2000 if both 2000 and 3000 balances are returned (hybrid)

### Query: Last Call Details {QLSTCL}

IDL Function: PerformFunction

Function Selector: QLSTCL

This query returns the last 10 call details for a subscriber in the previous 30 days. Each call record service is returned as a set of attributes. As there may be multiple call records for a subscriber, the attributes for each call record are appended with an underscore character and the number of the record e.g. TRANSACTION TYPE\_1, TIME\_STAMP \_1, …. TRANSACTION TYPE\_2, TIME\_STAMP \_2 etc.

*Table 36: Query: Last Call – In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 37: Query: Last Call– Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| TRANSACTION\_TYPE | String | Transaction type e.g. On-line SMS. See Table 717 for current possible values. |
| TIME\_STAMP | Date | Datetime of call |
| OTHER\_PARTY | String | Dialled number |
| DURATION | String | Duration in seconds |
| VALUE | String | Call value in Rands |
| CREDIT\_BALANCE | String | Credit balance in Rands |
| ROAMING | String | ‘0’ or null indicate call made on local network.  1’ indicates call made whilst roaming |
| VOLUME | String | Volume of data transmitted in kB. |
| TOTAL\_DESTINATIONS | String | Only applies to MMS. How many subscribers did the MMS get sent to? |
| SPONSOR\_MSISDN | String | The CallSponsor MSISDN if the destination number has been sponsored. |
| COUNTER | String | The SMS-MO / Loyalty SMS counter value of an SMS |
| SERVICE\_TYPE | String | A description of the content service requested by the customer |
| PROVIDER\_ID | String | The name of the WASP providing the service for content records |
| AUTHORISATION\_REF\_REQ | String | The unique USSD session identifier for bearer and content records |
| TARIFF\_DISCOUNT\_PERCENTAGE | Number | The discount applicable to the tariff |

### Query: Promotional Data bundle details {QRYPRO}

IDL Function: PerformFunction

Function Selector: QRYPRO

This query returns the promtional data bundles details for prepaid subscribers. Each call record service is returned as a set of attributes.

*Table 38: Query: Promotional Data Bundle– In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | MSISDN or ICCID |

*Table 39: Query: Promotional Data Bundle Details – OutParameterList*

| Parameter | Format | Description |
| --- | --- | --- |
| BUNDLEID\_0 | String | The description of the subscriber’s promotional data bundle(s) (e.g. MYGIG 1 PROMO ) |
| PROMO VALUE\_0 | String | Bundle size purchased, and not monthly allocation, unless the size purchased is the same as the monthly recurring allocation. The bundle value shall be displayed in Megabytes (MB) or Gigabytes (GB) .e.g. 100 MB or 1GB |
| VOUCHER TYPE\_0 | String | The voucher type (e.g. 905) |
| PROMO INITIAL DATE\_0 | String | The date that the promotional bundle was initially activated. |
| PROMO PERIOD\_0 | String | The number of months that the promotional will be valid for (i.e. The number of top ups the subscriber will receive in total), e.g. 3, 6 or 12 |
| MONTHLY PROMO TOP UP VALUE\_0 | String | This is the monthly promotional data bundle that the subscriber will receive. The bundle value shall be displayed in Megabytes (MB) or Gigabytes (GB) .e.g. 100 MB or 1GB. |
| MONTHLY PROMO TOP UP REMAINING\_0 | String | The number of (monthly) promotional top ups remaining still to be credited to the subscriber. |
| NEXT PROMO TOP UP DATE\_0 | String | The date of the next promotional bundle top up. |
| LAST ALLOCATION DATE\_0 | String | The date of the last promotional bundle allocation |
| DESCRIPTION\_0 | String | The description of the subscriber’s promotional data bundle(s) (e.g. MYGIG 1 PROMO ) |
| … | … | … |
| BUNDLEID\_N | String | The description of the subscriber’s promotional data bundle(s) (e.g. MYGIG 1 PROMO ) |
| PROMO VALUE\_N | String | Bundle size purchased, and not monthly allocation, unless the size purchased is the same as the monthly recurring allocation. The bundle value shall be displayed in Megabytes (MB) or Gigabytes (GB) .e.g. 100 MB or 1GB |
| PROMO VALUE\_N | String | Bundle size purchased, and not monthly allocation, unless the size purchased is the same as the monthly recurring allocation. The bundle value shall be displayed in Megabytes (MB) or Gigabytes (GB) .e.g. 100 MB or 1GB |
| VOUCHER TYPE\_N | String | The voucher type (e.g. 905) |
| PROMO INITIAL DATE\_N | String | The date that the promotional bundle was initially activated. |
| PROMO PERIOD\_N | String | The number of months that the promotional will be valid for (i.e. The number of top ups the subscriber will receive in total), e.g. 3, 6 or 12 |
| MONTHLY PROMO TOP UP VALUE\_N | String | This is the monthly promotional data bundle that the subscriber will receive. The bundle value shall be displayed in Megabytes (MB) or Gigabytes (GB) .e.g. 100 MB or 1GB. |
| MONTHLY PROMO TOP UP REMAINING\_N | String | The number of (monthly) promotional top ups remaining still to be credited to the subscriber. |
| NEXT PROMO TOP UP DATE\_N | String | The date of the next promotional bundle top up. |
| LAST ALLOCATION DATE\_N | String | The date of the last promotional bundle allocation |
| DESCRIPTION\_N | String | The description of the subscriber’s promotional data bundle(s) (e.g. MYGIG 1 PROMO ) |

### Query: Air Time Window Expiry Date {QATWND}

IDL Function: PerformFunction

Function Selector: QATWND

This query returns the Air Time Window Expiry Date for a subscriber.

*Table 40: Query: Air Time Window – In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 41: Query: Air Time Window – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| EXPIRY\_DATE | String | Airtime window expiry date in YYYY-MM-DD format e.g. 2003-10-27 |

### Query: Bundle Summary {QBNSMY}

IDL Function: PerformFunction

This function will be disabled in Release 10.0.20.

This query provides summary information for use by USSD. Initially it will only be available for Contract Subscribers, and USSD will use QBNSRV for prepaid subscribers. When QBNSMY is extended to include prepaid subscribers, QBNSRV will be terminated

*Table 42: Query: Bundle SUmmary Usage - In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUBSCRIBER\_ID | String | See Table 2 |
| SUBSCRIBER\_ID\_TYPE | String | MSISDN, ICCID |

*Table 43: Query: Bundle Summary Usage - Out AttributeList*

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | | **Format** | **Description** |
| SERVICETYPE | String | | <Name> |
| TOTALAVAILABLE | String | | <Total Available> |

### Query: Bundle All Summary {QBNASM}

IDL Function: PerformFunction

This query shall return the summary of a subscriber’s bundles. It will be available for Contract, Prepaid and Hybrid Subscribers. The types of bundled services that shall be displayed are:

| **Name** | **Sub-Type** |
| --- | --- |
| T11 | Purchased |
| T11 | More Minutes |
| T22 | Purchased (Adhoc) |
| T22 | Promotional |
| T22 | Purchased (Recurring) |
| GPRS | Purchased |
| GPRS | Loyalty |
| MMS | Loyalty |
| MMS | Promotional |
| MMS | Purchased |
| AIRTIME | Purchased |

*Table 44: Query: Bundle Summary Usage - In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUBSCRIBER ID | String | See Table 2 |
| SUBSCRIBER ID TYPE | String | MSISDN, ICCID |
| OFFER\_ID | String | The Subscriber’s Offer Id e.g. ‘BUS’ Business, ‘WTP = Weekend Top Up |
| PAYMENT\_METHOD | String | P = Prepaid, C = Contract, M = Mixed (Hybrid) |

*Table 45: Query: Bundle Summary Usage -Out AttributeList*

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Format** | **Description** |
| SERVICE TYPE | String | Bundle e.g. T22 |
| SERVICE | Sting | Sub type of bundle e.g. if ST = T22: SERVICE = 'Purchased' |
| TOTAL AVAILABLE | String | Available balance e.g. 100 |

### Query: Bundled Details {QBNDET}

This query replaces QBNSRV in South Africa (Rel 10.0)

IDL Function: PerformFunction

This query superceeds the QBNSRV query.

The underlying billing systems have restructured the data that is returned when querying bundle details, and this has allowed this QBNDET query to return the data regarding bundles in a consistent manner across all service types and across Contract, prepaid and Hybrid subscribers.

Additional information is available through this query, but during the transition period of the billing systems, not all data is available for all service types and/or contract types. In these instances, nulls will be returned, but the minimum information will be equivalent to that returned by its predecessor QBNSRV

*Table 46: Query: Bundle Details Usage - In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUBSCRIBER\_ID | String | See Table 2 |
| SUBSCRIBER\_ID\_TYPE | String | MSISDN, ICCID |
| SERVICE\_TYPE | String | e.g. ‘T11’, ‘T22’, ‘G00’, ‘MMS’, ‘AIRTIME’ or ‘ALL’ T11 = Telephony T22 = SMS G00 = GPRS AIRTIME = Top-Up subscribers airtime carryover information MMS = Multimedia Messaging ALL = Query All bundles applicable to a particular subscriber. |
| BUNDLE\_TYPE | String | Optional: Possible values for BUNDLE\_TYPE are "Promotional", "Purchased" and "Loyalty" for prepaid and hybrid subscribers. Refer to [6] for valid service types contract subscribers. |
| OFFER\_ID | String | The Subscriber’s Offer Id e.g. ‘BUS’ Business, ‘WTP = Weekend Top Up |
| PAYMENT\_METHOD | String | P = Prepaid, C = Contract, M = Mixed (Hybrid) |

Table 47 shall be displayed when the service type is ‘T11’, ‘T22’, ‘G00’, ‘MMS’ or when ‘ALL’ is selected.

*Table 47: Query: Bundle Details Usage -Out AttributeList*

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | | **Format** | **Description** |
| SERVICETYPE | String | | <Name>, "Buckets"\*,<Buckets> |
| SERVICE | String | | <Status>,<SubType>,<Name>,"Start Date"\*,<StartDate> |
| ADHOCINFO | String | | <Adhoc Info> |
| HEADING | String | | "Month","Threshold","Used Bundle","Remaining Bundle","Carry Forward","Start Date","Expiry Date" |
| ROW1 | String | | <Month>,<Threshold>,< Used Bundle>,<Remaining Bundle>,<Carry Forward>,<Start Date>,<Expiry Date> |
| ROW2 | String | | <Month>,<Threshold>,< Used Bundle>,<Remaining Bundle>,<Carry Forward>,<Start Date>,<Expiry Date> |
| … |  | |  |
| ROWN | String | | <Month>,<Threshold>,< Used Bundle>,<Remaining Bundle>,<Carry Forward>,<Start Date>,<Expiry Date> |
| TOTALAVAILABLE | String | | "Total Bundle Available",<Total Available> |
| OUTOFBUNDLE | String | | "Out of Bundle Usage",<Out of Bundle> |
| TOTALFORFEIT | String | | "Total Bundle Forfeit",<Total Forfeit> Please note that this field wil not be available after CCS CV2 release |
| FORFEITMONTH | String | | "Bundle Forfeit Month",<Forfeit Month> Please note that this field wil not be available after CCS CV2 release |

\*The strings "Start Date" will be inserted only if the <StartDate> attribute of the <Disc> element is present. Note that the <Month> element also has a <StartDate> and <EndDate> attribute.

Table 48 shall be displayed when the service type ‘AIRTIME’ or when ‘ALL’ is selected.

*Table 48: Query: Bundle Details Usage -Out AttributeList - AIRTIME*

| Attribute Name | Format | Parameter Value Description |
| --- | --- | --- |
| ACTUAL MONTH | Char | The actual Month |
| TOP UP MONTHLY SUBSCRIPTION | INT | Purchased Top Up subscription. Value in cents, convert to Rands |
| USED TOPUP BUNDLE | INT | Amount of subscription used. Value in cents, convert to Rands |
| UNUSED TOPUP BUNDLE | INT | Amount of subscription not used. Value in cents, convert to Rands |
| TOTAL CARRY OVER | INT | Value in cents, convert to Rands |
| MAXIMUM CARRY OVER ALLOWED | INT | Value in cents, convert to Rands |
| POTENTIAL FORFEIT | INT | Amount of subscription to potentially forfeit. Value in cents, convert to Rands |
| FORFEIT DATE | Char | Date of forfeit, in format ccyymmdd |
| FORFEITED TOPUP BUNDLE | INT | Amount of subscription forfeited. Value in cents, convert to Rands |
| OPENING IN BALANCE | INT | Return as Opening Balance |
| TOTAL RECHARGES | INT | Value in cents, convert to Rands. Return as: (+) Total Recharges |
| NET AIRTIME TRANSFER | INT | Value in cents, convert to Rands. Return as : (+) Net Airtime Transfer |
| CLOSING IN BALANCE | INT | Value in cents, convert to Rands. Return as : (+) Closing Balance |
| SMS AIRTIME BALANCE | INT | Value in cents, convert to Rands |
| SMS USED SUBSCRIPTION | INT | Value in cents, convert to Rands |
| SMS MAXIMUM CARRY OVER ALLOWED | INT | Value in cents, convert to Rands |
| SMS POTENTIAL FORFEIT | INT | Value in cents, convert to Rands |
| SMS FORFEIT DATE | Char | Date of forfeit, in format ccyymmdd |
| SMS SEND DATE | Char | Date of send, in format ccyymmdd |
| LITEREFUND | INT | Value in cents, convert to Rands |
| AIRTIME TRANSFER MAX | INT | R0.00 |

Note: Depending on the Contract Type and Service Type:

* Not all values in the rows will be available. In these cases, a null value will be returned. This is not the same as a zero value. For example, there is zero remaining bundle.
* Not all summary rows will be returned, and they may be returned in different sequences. For example Out of Bundle Usage only applies to Contract Subscribers.

### Query: Perfect Balance Bundled Details {QPBBDT}

Function Selector: QPBBDT

IDL Function: PerformFunction

The new CCS Converged system shall require that when querying bundle details, for all channles, Prepaid/TopUp and Postpaid subscribers, Engineering Fusion shall cater for this functionality and return all information reagarding a subscribers account balance.

*Table 49: Query: Perfect Balance Bundle Details Usage - In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUBS ID | String | See **Error! Reference source not found.** |
| SUB ID TYPE | String | MSISDN |
| SERVICE TYPE | String | e.g. Data , SMS, MMS, Aitrime, ALL |

The table below shall be displayed when the service type is ‘Data’, ‘SMS’, ‘MMS’ or when ‘ALL’ is selected.

*Table 50: Query: Bundle Details Usage -Out AttributeList*

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Format** | **Description** |
| PRODUCTID | String | “Product ID”, <Product ID> |
| BUNDLENAME | String | “Bundle Name”, <Bundle Name> |
| HEADING | String | ~~“Product ID”, “Bundle Name “,~~” Month”, “Start Date” , ,”Expiry Date” , “Usage Restricted”, “Frequency” , “Bundle Used”,”Bundle Remaining “, “Bundle Allocated”,  ~~“Total Used”,”Total Remaining”, “Total Allocated”~~ |
| ROW1 | String | ~~<PRODUCT ID>, <BUNDLE NAME >~~,<MONTH>, <START DATE>,<EXPIRY DATE>, <USAGE RESTRICTED>,<FREQUENCY>,<BUNDLE USED>,<BUNDLE REMAINING>, <BUNDLE ALLOCATED>, ~~<TOTAL USED>,<TOTAL REMAINING>, <TOTAL ALLOCATED>~~ |
| TOTALUSED | String | “Total Bundle Used”, <Total Used> |
| TOTALREMAINING | String | “Total Bundle Remaining”, <Total Remaining> |
| TOTALALLOCATED | String | “Total Bundle Allocated”, <Total Allocated> |
| OUTOFBUNDLE | String | "Out of Bundle Usage", <Out of Bundle> |

This table will be displayed when Airtime is selected

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Format** | **Description** |
| HEADING | String | “Month”, “Product ID” , “Start Date” ,”Expiry Date”,”Balance Remaining “, ~~”,”Total”~~ |
| ROW1 | String | <MONTH>, <PRODUCT ID> , <START DATE>,<EXPIRY DATE>, <BALANCE REMAINING >, ~~<”TOTAL>~~ |
| TOTAL | String | ” Total”, <” TOTAL> |

### Query: Subscriber Information {QSINFO}

Function Selector: QSINFO

IDL Function: PerformFunction

This query returns information about a subscriber on the administration system.

*Table 51: Query: Subscriber Information– In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 52: Query: Subscriber Information – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| PP\_SMP | String | Prepaid platform the subscriber is on |
| SP | String | The Service provider for the subscriber |
| ICAP\_SP\_ID | String | The iCAP SP ID of the subscriber |
| GENESYS\_SP\_ID | String | The Genesys Service Provider description of the subscriber. See 5.5 for more details. |
| LOCK\_STATUS | String | The subscriber’s Lock status ‘N’ = Not Locked ‘F’ = Full Locked ‘I’ = Locked for Incoming Calls ‘O’ = Locked for Outgoing Calls |
| PUK | String | The subscriber’s PUK number |
| PRODUCT\_ID | String | The subscriber’s product ID – derived from the subscriber’s offer id. If the subscriber has been deleted, the offer id is returned. See [3] for more details on the possible values. |
| SUBSCRIBER\_TYPE | String | The subscriber type : ‘PPD’ = Prepaid ‘CON = Contract |
| MSIN | String | The subscriber’s current MSIN format ‘hhnnnnnnnn’ |
| ICC\_ID | String | The subscriber’s ICCID Number e.g. ‘89980000000000000012’ |
| BILLING\_TYPE | String | Billing type: ‘min’ = per minute ‘sec’ = per second ‘4U’ = 4U billing type |
| MSISDN | String | Subscriber MSISDN in Number Plan appropriate format - see [3.2] |
| TW\_STATUS | String | Time Window Status (not applicable for Contract subscribers) : - NULL or blank – not applicable for this subscriber. ‘LIVE’ - the subscriber does not have a time window lock status ‘DEL REQ’ – a delete has been requested on this subscriber ‘SHIP’ – the subscriber has never been activated ‘EXPIRE’ – the subscriber has expired. |
| OFFER\_ID | String | The Subscriber’s Offer Id e.g. ‘BUS’ Business,  ‘WTP = Weekend Top Up |
| TWC\_STATUS | String | The Twincall Status of the subscriber : ‘M” = Master SIM ‘S’ = Slave SIM |
| ICAP\_ID | String | The subscriber’s iCAP ID |
| PAYMENT\_METHOD | String | P = Prepaid, C = Contract, M = Mixed (Hybrid) |

### Query: CallSponsor Links {QCSLNK}

Function Selector: QCSLNK

IDL Function: PerformFunction

This query returns the CallSponsor Links that are applicable for the subscriber. If the subscriber is a Sponsor the data returned contains the information about the subscriber’s sponsored MSISDN’s, and the programmed numbers sponsored. If the subscriber is a sponsored subscriber the data returned is the Sponsor MSISDN’s and the programmed numbers that are sponsored.

The query will return a set of data for each link. The Set of data will be described below. If there are no links, no data error is returned.

*Table 53: Query: CallSponsor Links – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 54: Query: CallSponsor Links – Set Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| ICAP\_ID\_(N) | String | iCAP ID of the subscriber |
| MSISDN\_(N) | String | If the SO\_ID = ‘CSC’ then the MSISDN is the Sponsored MSISDN. If the SO\_ID = ‘CSP’ then the MSISDN is the Sponsor MSISDN. MSISDN |
| PROGRAMMED\_NUMBER\_(N) | String | The Programmed Number that the sponsored subscriber can call. |
| LINK\_STATUS\_(N) | String | The values for the status can be : ‘Accepted’ – the link has been accepted by the sponsored subscriber and is active ‘Locked’ – the Sponsor has been locked ‘Pending’ – the link has not been accepted. ‘Locked Pending’ – the links has not been accepted, and the sponsor has been locked. |
| EXPIRY\_DATE\_(N) | String | Date the links will expire if the link is in Pending or locked pending state in the format ‘YYYYMMDD’ If the link has been accepted the value will be blank. |
| SO\_ID\_(N) | String | Call Sponsor Service Offering ID ‘CSC’ = Sponsor ‘CSP’ = Sponsored |
| SID\_SEQ\_(N) | String | Service ID Sequence in the iCAP system |
| OFFER\_ID\_(N) | String | Offer ID for the subscriber in iCAP. |

Where (N) is the CallSponsor link number.

### Query: Grey/Blacklist Status {QGRYST}

Function Selector: QGRYST

IDL Function: PerformFunction

This query returns the Grey/Blacklist status of an IMEI of a handset. The IMEI and the date of the Grey/blacklisting action in the iCAP database shall be entered as Attributes. Data will only be returned if a match is found for the date and the IMEI combination in the greylisting data in the iCAP system.

*Table 55: Query: Grey/Blacklist status – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(4) | IMEI |
| GREYLIST\_DT | String(10) | String of the Date in the format ‘YYYY-MM-DD’ e.g. ‘2003-10-25’ |

*Table 56: Query: Grey/Blacklist status – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| IMEI | String | IMEI of the Handset that was queried. |
| TRANSACTION\_TYPE | String | The type of transaction performed on the IMEI. |
| TRANSACTION\_DT | String | The date the transaction took place – must match the input Attribute GREYLIST\_DT  ‘YYYY-MM-DD’ format |
| POLICE\_CASE\_NO | String | The Police Case number |
| POLICE\_STATION\_NAME | String | Police Station name |
| POLICE\_CASE\_DT | String | The Case date and time in ‘YYYY-MM-DD’ format |
| STATUS | String | Translate: L = ‘LOGGED’ S = ‘SUCCESSFUL’ F = ‘FAILED’ |
| ITC\_REFERENCE | String | ‘ITC PENDING’ indicates that ITC command has not completed yet ITC\_REFERENCE – the request has been logged to the ITC system. |
| LAST\_ACTIVITY | String | Date of the Last Activity of the IMEI in ‘YYYY-MM-D’ format. If the IMEI has not been used, the string ‘NONE’ is returned. |
| COMMENT | String | ‘The Date of Last Activity does not Include SMS, GPRS and Call Forward activities’ |

### Query: Subscriber Profile {QSBPRF}

Function Selector: QSBPRF

IDL Function: PerformFunction

This query returns the subscriber profile (role type S) as listed on the iCAP Administration System.

Note: The use of ICCID as an input parameter must not include the former ’20 digit format’ validation, as DSTV SMART CARDS are now also considered valid ICCIDs, so the ICCID entered can be for GSM Subscribers or DSTV subscribers.

*Table 57: Query: Subscriber Profile Query– In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN, ICCID, SMARTCARD |

*Table 58: Query: Subscriber Profile Query – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| ICAP ID | String | The unique ID number that identifies a subscriber on iCAP |
| SP ID | String | The unique ID number that identifies a subscriber on SP system (will only be returned if an SP\_ID exists for the subscriber being queried) |
| T11 MSISDN | String | The Telephony MSISDN for the subscriber - MSISDN in Number Plan appropriate format - see [3.2] |
| ICC-ID | String | ICCID |
| IMSI | String | IMSI |
| Class | String | Class NAT = National, INT = International or ROM = Roaming. |
| Lock Level Status | String | Lock Level Status e.g. N, F. I. O ‘N’ = Not locked ‘F’ = Full Locked ‘I’ – locked for incoming calls only ‘O’ – locked for outgoing calls only |
| IN Key | String | IN Key |
| IN Platform | String | IN Platform |
| Admin Locked | String | Subscriber Admin Locked Y or N |
| Subscriber State | String | Subscriber Status e.g. Active, TWL, Deleted |
| Type | String | Example Vodac SP |
| HLR numbering | String | Single or Multi |
| SIM Type | String | Indicates the subscriber’s SIM type e.g. 8k, 32k |
| Payment Method | String | Subscriber’s method of payment e.g. Contract or Prepaid |
| Subscriber Start Date | String | The date the subscriber was started |
| Subscriber End Date | String | Date subscriber was terminated |
| Offer ID | String | The subscriber’s offer ID |
| Offer | String | The subscriber’s offer description |
| Offer Start Date | String | The initial date & time on which the current / last active subscription was activated. |
| Offer End Date | String | The date & time on which the subscriber subscription was terminated. |
| Service Provider | String | Service Provider (e.g. VSP) |
| SP Code | String | SP Code (e.g. SP880) |
| Account Number | String | Account Number |
| Title | String | The subscriber title |
| First Name | String | The subscriber first name |
| Surname | String | The subscriber surname |
| DOB | String | The subscriber date of birth |
| Person ID Type | String | The subscriber ID Type e.g. Passport |
| Person ID Number | String | The subscriber ID Number e.g. Passport Number |
| SAT ID: Category | String | Subscriber attribute. This reflects a collection of attributes and their respective values and as such the return format is as follows: <SAT ID: Category> - <Value> an example is: <VCRP Category> - <ONX> See Tabel 5.6 Subscriber Attributes for details |
| SAT ID: Start Date | String | Start date for the attribute |
| SAT ID: Expiry Date | String | Expiry date for the attribute (where an expiry period is applicable) |
| CC indicators Category-X | String | Example VIP Subscriber There can be several indicators, each will be numbered where ‘X’ appears in the parameter name |
| SMS Indicators Category | String | Examples: No SMS Notification No SMS Notification For Content Billed |
| SP Call Route Flag | String | The SP Call Route Flag allocated to the subscriber when they were registered for VCRP |
| Do Not Delete | String | Examples: Network |
| Specific Needs Category-X | String | This is a set of indicators that tells the user if the subscriber has a specific need |
| Customer Lifetime Category | String | This is an indicator of the customer’s lifetime value |
| Expiry Date | String | Starterpack Expiry Date in ‘YYY-MM-DD’ format. |
| Subscriber Attribute Category | String | Subscriber Attributes |
| Language | String | Subscriber Language |
| Language Code | String | Subscriber Language Code |
| WASP Content Block Category | String | Will have value of WASP Content Blocked if it exists |
| SP Seq | String | SP sequence |
| Customer ID | String | Customer ID |
| Alternate MSISDN | String | Example 0821234567 - MSISDN in Number Plan appropriate format - see [3.2] |
| Handset | String | Handset make and Model for latest handset used by the subscriber – Primary SIM |
| IMEI | String | IMEI for latest handset used by the subscriber |
| Second Handset | String | Handset make and Model for latest handset used by the subscriber – Secondary SIM |
| OFFER GROUP | String | GSM – GSM offers AVE – DSTV offers WMX – WiMAX offers |
| RICA | String | Y, N, P or D – ‘Registered’, ‘Not Registered’, ‘Deregister Pending’, ‘Deregistered’ |
| Youth Proposition Category | String | ‘Youth Proposition Inactive’, ‘Youth Proposition Active’, ‘Youth Proposition Deregistered’ |
| RICA LOCK | String | Y or N. Y = RICA Locked N = Not RICA Locked |
| ADSL User Name | String | The subscriber’s broadband converged ADSL user name |
| Revenue Classification | String | Revenue Classification ID Description – see [12] |
| Stolen Locked | String | Subscriber stolen lock status. Values can be: F – Full I – Incoming O – Outgoing N – Not locked |
| CLL Lock Status | String | Subscriber Call Limit Lock – ‘Y’ or ‘N’ |
| Reporting Classification | String | Subscriber reporting classification – ‘Consumer’ or ‘Business’ |
| Offer Group | String | GSM – GSM WMX – WiMAX DSL – ADSL or GPON internet CPG – Corporate GPRS VOIP – VoIP |
| PSEUDO MSISDN | String | Subscriber’s pseudo MSISDN in Number Plan appropriate format - see [3.2] |
| PIN | String | PIN number of the SIM |
| PIN2 | String | PIN2 number of the SIM |
| PUK | String | PUK number of the SIM |
| PUK2 | String | PUK2 number of the SIM |
| Super Dealer | String | ID of commission point |
| Credit Limit | String | Credit limit |
| Credit Usage Threshold X | String | Threshold of the bundle 1, 2, 3 or 4, where the number is substituted for ‘X’ in the parameter name |
| Subscriber self help PIN | String | The subscriber’s PIN |
| TIMN\_INTERNATIONAL\_COUNT | String | This Is My Number international SMS count |
| COMMISSION SEQ | String | Sequence of commission point |
| COMMISSION ID | String | ID of commission point |
| COMMISSION DESCRIPTION | String | Description of commission point |
| Migration Status | String | Migration status will be “Y” for subscriber has been migrated or migration in progress and “N” for subscriber has not been migrated |
| Subscriber Unique KYC ID | String | Obtained from sa\_subscribers. |
| KYC ID Date | Date | Obtained from sa\_subscribers. |
| CB SUB TYPE | String | Subscriber Classification e.g. ‘IOT’/ ‘ECL’ / ‘EEL’ / ‘CBU\_M’/ ‘CBU\_NM’ |

Please note the following with regards to the above query:

* The Migration Status Attribute refers to when a subscriber migrates from iCAP to C3D.
* The *Subscriber migration process status* can either be already migrated, migration in progress or active (not migrated). The subscriber status can be identified by the user as follows:

*Table 59: Subscriber migration process status*

|  |  |
| --- | --- |
| Subscriber migration process status | Status identification |
| Migrated | Migration Status: “Y” Subscriber State: “Deleted” |
| Migration in progress | Migration Status: “Y” Subscriber State: “Active” |
| Active (still on iCAP) | Migration Status: “N” Subscriber State: “Active” |

### Query: IMEI List – Prepaid {QIMEIL}

Function Selector: QIMEIL

IDL Function: PerformFunction

This query returns the IMEI’s that have been associated with a given MSISDN. The return data indicates the date the handset was first associated with the MSISDN, and the Make and Model of the handset.

Each IMEI record is returned as a set of attributes. As there may be multiple handsets (IMEI’s) associated with an MSISDN. As there may be IMEI’s associated with the MSISDN, the attributes for each IMEI are appended with an underscore character and the number of the record e.g. IMEI\_1, MAKE\_MODEL\_1, DATE\_TIME\_1, IMEI\_2, MAKE\_MODEL\_2, DATE\_TIME\_2, … etc.

*Table 60: Query: IMEI List – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 61: Query: IMEI List – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| IMEI | String | Handset IMEI |
| MAKE\_MODEL | String | Handset Make and Model |
| DATETIME | String | The date and time associated with the handset when first used in the format “YYYY/MM/DD HH24:MI:SS”. |

### Query: Itemised Statement Type – Prepaid {QSTTYP}

Function Selector: QSTTYP

IDL Function: PerformFunction

This query returns the Itemised Statement types and descriptions that are available for the itemised statement request.

The output is a set of attributes for each statement type. The attributes shall be appended with an underscore and a number, indicating the statement number e.g. DESCRIPTION\_1, ST\_ID\_1, DESCRIPTION\_2, ST\_ID \_2… etc

*Table 62: Query: Statement Type – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 63: Query: Statement Type – Out AttributeList*

| Attribute | Format | | Description |
| --- | --- | --- | --- |
| DESCRIPTION | String | The Description of the Statement | |
| ST\_ID | String | The Statement Type number | |

### Query: Siebel Self Help Requests {QSBSHR}

Function Selector: QSBSHR

IDL Function: PerformFunction

This query returns all the Siebel Self Requests logged by the subscriber.

The output is a set of attributes for each statement type. The attributes shall be appended with an underscore and a number, indicating the statement number e.g. MSISDN\_1, REQNUMBER\_1, STATUS\_1, DESCRIPTION\_1, RESOLUTION\_1, CREATEDDATETIME\_1, MSISDN\_2, REQNUMBER\_2 … etc.

*Table 64: Query: Self Help Requests – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 65: Query: Self Help Requests – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| MSISDN | String | The subscriber’s Mobile Number - MSISDN in Number Plan appropriate format - see [3.2] |
| REQNUMBER | String | The Request number assigned by Siebel |
| STATUS | String | The current status of the fault |
| DESCRIPTION | String | The request description |
| RESOLUTION | String | The resolution of the request |
| CREATEDDATETIME | String | The Create Date and Time of the Self Help request in the format “YYYY-MM-DD HH24:MI:SS” |

### Query: Subscriber Attributes {QSBATT}

Function Selector: QSBATT

IDL Function: PerformFunction

This query returns all the subscriber attributes currently linked to a subscriber. The attributes indicate particular information about the subscriber. A list of the attributes are given in 5.6.

The output is a set of attributes for each attribute category. The attributes shall be appended with an underscore and a number, indicating the attribute number e.g. . TYPE\_ID\_1, TYPE\_ DESCRIPTION\_1, CATEGORY\_ID\_1, CATEGORY\_DESCRIPTION\_1, TYPE\_ID\_2, TYPE\_ DESCRIPTION\_2, CATEGORY\_ID\_2, CATEGORY\_DESCRIPTION\_2,…etc.

*Table 66: Query: Subscriber Attributes – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 67: Query: Subscriber Attributes – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| TYPE\_ID | String | The Attribute Type |
| TYPE\_ DESCRIPTION | String | The Attribute type description |
| CATEGORY\_ID | String | The attribute category ID |
| CATEGORY\_DESCRIPTION | String | The attribute category description |

### Query: SIM Information {QSMINF}

Function Selector: QSMINF

IDL Function: PerformFunction

This query returns all the information about a SIM card. The SIM information would have been inserted into the iCAP system during a Provision SIM card request.

*Table 68: Query: SIM Information Requests – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String(20) | See Table 2 |
| SUB ID TYPE | String(5) | ICCID, MSISDN |

*Table 69: Query: SIM Information Requests – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| ICC\_ID | String | SIM number of the SIM Card |
| IMSI | String | ISMI number of the SIM card |
| PIN | String | PIN number |
| PUK | String | PUK number |
| PIN2 | String | PIN number |
| PUK2 | String | PUK number |
| A4KI | String | Authentication key 1 |
| A3A8 | String | Authentication key 2 |
| TRANSPORT\_KEY | String | Key to indicate encryption/decryption. |
| OTAKEY0 | String | WIG platform OTA key 1 |
| OTAKEY1 | String | WIG platform OTA key 2 |
| OTAKEY32 | String | WIG platform OTA key 3 |
| OTAKEY33 | String | WIG platform OTA key 4 |
| OTAKEY48 | String | WIG platform OTA key 5 |
| OTAKEY49 | String | WIG platform OTA key 6 |
| STATE | String | The status of the SIM card |
| ORDER\_NO | String | The Order number the SIM is linked to – if the Sim is linked to an order |
| SP\_SEQ | String | The SP sequence associated with the SIM |
| SO\_ID | String | The Service Offering ID applicable for this SIM |
| MEMORY | String | The amount of memory on the card |
| WIG\_CARD\_PROFILE | String | The WIG card profile |
| KI\_INDEX | String | The KIindex for the SIM |
| ADM1 | String | ADM 1 Code for ESIM |
| ADM2 | String | ADM 2 Code for ESIM |
| ACTIVATION\_CODE | String | Activation Code for ESIMS |
| CONFIRMATION\_CODE | String | 4 character confirmation code |
| EID | String | The eUICC-ID. It acts as an identifier of the device (eSIM device) not the handset’s IMEI. Normed to 32 digits |
| SMDPFQDN | String | The SMDP+ fully qualified domain name |
| SMDP\_DEFAULT\_ADDRESS | String | The SMDP default address – place holder for future use |
| SMDS\_ADDRESS | String | Public DNS/FQDN of GSMA SM-DS server. The address is stored in all GSMA certified eUICCs. |
| MATCHING\_ID | String | the matching ID is generated by SIM vendor during the SIM ordering process. It is then loaded onto the resource inventory. It is required for QR-code generation. |

### Query: PIN Details {QRYPIN}

Function Selector: QRYPIN

IDL Function: PerformFunction

This query returns the PIN information about a SIM card. The SIM information would have been inserted into the iCAP system during a Provision SIM card request.

*Table 70: Query: PIN Details – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | M |

*Table 71: Query: PIN Details – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| PIN | String | PIN number e.g. 1234 |
| PUK | String | PUK number e.g. 12345678 |
| PIN2 | String | PIN number e.g. 1234 |
| PUK2 | String | PUK number e.g. 12345678 |

### Query: Call Routing Flags {QCRFLG}

IDL Function: PerformFunction

Function Selector: QCRFLG

This query returns the Call Routing Flags for a particular subscriber. The Call Routing Flags are defined in section 5.9.

*Table 72: Query: Call Routing Flags – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 73: Query: Call Routing Flags- Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| CRFLAGS | String | A string depicting different call routing criteria for the subscriber. Please refer to section 5.9 for more information on the format of the flags. |
| ICAP\_ID | String | The subscriber’s iCAP ID |

### Query: Latest Handset Make and Model {HNDMKM}

IDL Function: PerformFunction

Function Selector: HNDMKM

This query returns the latest handset make, model and GPRS and MMS capabilities for a subscriber.

Note: This data is retrieved from the call data record information and as such will only be as up to date as the call records received in the Vodacom systems. A subscriber calling to the IVR’s using a new handset for the first time will not get the new handset details as these have not been recorded in the Vodacom systems yet.

*Table 74: Query: Latest Handset– In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 75: Query: Latest Handset – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| IMEI | String | The IMEI of the latest handset registered against the subscriber |
| MAKE | String | The make of the handset |
| MODEL | String | The Model of the handset |
| GPRS | String | An indication of the GPRS capabilities of the handset. A ‘1’ or ‘0’ will be returned where 1 represents Yes and 0 represents No. |
| MMS | String | An indication of the GPRS capabilities of the handset. A ‘1’ or ‘0’ will be returned where 1 represents Yes and 0 represents No. |
| GPRS\_SERVICE | String | An indication if the subscriber has a GPRS service or not. The values are ‘Yes’ or ‘No’. ‘Yes’ indicating that the subscriber has a GPRS service, and ‘No’ indicating that the sub does not have a GPRS service. |

### Query: Query Subscriber Services {QSBSRV}

IDL Function: PerformFunction

Function Selector: QSBSRV

This query returns the current set of services provisioned for a subscriber.

The output is a set of attributes for each attribute category. The attributes shall be appended with an underscore and a number, indicating the attribute number e.g. ST\_ID\_1, ST\_DESCRIPTION\_1, SO\_ID\_1, SO\_DESCRIPTION\_1, …. ST\_ID\_2, ST\_DESCRIPTION\_2, SO\_ID\_2, SO\_DESCRIPTION\_2,…. ST\_ID\_n, ST\_DESCRIPTION\_n, SO\_ID\_n, SO\_DESCRIPTION\_n…,etc.

*Table 76: Query: Subscriber Services– In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 77: Query: Subscriber Services – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| ST\_ID | String | Service Type ID |
| ST\_DESCRIPTION | String | Service description e.g. ‘Telephony’ |
| SO\_ID | String | Service offering ID e.g. T11 |
| SO\_DESCRIPTION | String | Service offering description e.g. ‘Vodago GSM Telephony’ |
| START\_DATE | String | Start date applicable to service e.g. ’01-01-2000 14:30:00’ |
| END\_DATE | String | End date applicable to service e.g. ’01-01-2000 14:30:00’ |
| COS | String | Class of service ( if applicable ) |
| BASIC\_YN | String | Basic service flag ( if applicable ) |
| GPRS\_YN | String | GPRS flag ( if applicable ) |
| PROVISION\_YN | String | Provision flag ( if applicable ) |
| SHARE\_MSISDN\_YN | String | Does the service share a MSISDN ( if applicable ) |
| ADD\_CF\_YN | String | Add Call Forwarding flag ( if applicable ) |

### Query: Subscriber Registration information {QRGINF}

IDL Function: QueryFunction

Function Selector: QRGINF

This query returns subscriber registration information.

*Table 78: Query: Subscriber Registration Information – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN, ICCID (MSISDN is also used for pseudonumber) |

*Table 79: Query: Subscriber Registration Information – RSA Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| STATUS | String | The registration status of the subscriber. The possible values are ‘NONE’, PENDING’, or ‘REGISTERED’ . Please note that this registration status is not the RICA Legal Registration status |
| Party | Structure | The Party details of the subscriber – see Table 11 for details on the party structure |
| SubAttributeList | Structure | The Registration Attributes of the subscriber – See Table 24 for more details. |

*Table 80: Query: Subscriber Registration Information – DRC/TZN Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| STATUS | String | The registration status of the subscriber. The possible values are ‘NONE’, ‘REGISTERED’ |
| Party | Structure | The Party details of the subscriber – see Table 11 – Personal Information (Party) Structure for details on the party structure |
| LIMIT | String | Indicates if the query has been executed before for this subscriber: ‘Y’ (Yes, query has been issues according to Vodacom business rules, for example, once per day) ‘N’ (No, first time query has been executed for this subscriber) |

### Query: Handset Status on ITC {QITCST}

Function Selector: QITCST

IDL Function: PerformFunction

This query returns the Grey/Blacklist status of an IMEI of a handset from the ITC system. The IMEI shall be entered as the input parameters.

*Table 81: Query: Query Handset Status from ITC system – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| IMEI | String(17) | Handset IMEI number – 14 to 17 characters. |

*Table 82: Query: Query Handset Status from ITC system – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| IMEI | String | IMEI of the Handset that was queried. |
| STATUS | String | The current Greylist status of the IMEI. This shall be as follows: CLEAR (not Grey or Blacklisted or no data found on the ITC system)  BLACKLISTED GREYLISTED OFFLINE – when the ITC system is not available due to working hours. |
| \*TRANSACTION\_DT | String | The date the transaction took place – must match the input Attribute GREYLIST\_DT (‘YYYY-MM-DD’ format) Not Applicable when the Status is CLEAR or OFFLINE. |
| \*POLICE\_CASE\_NO | String | The Police Case number Not Applicable when the Status is CLEAR or OFFLINE. |
| \*ITC\_REFERENCE | String | ‘ITC PENDING’ indicates that ITC command has not completed yet ITC\_REFERENCE – the request has been logged to the ITC system. Not Applicable when the Status is CLEAR or OFFLINE. |
| SYSTEM | String | The System that the query was executed on. |

\* - These attributes are not applicable when the STATUS is CLEAR or OFFLINE.

### Query: Prepaid /Hybrid SMS Bundle {QPBSRV}

IDL Function: PerformFunction

Function Selector: QPBSRV

This query returns the T22 (SMS) usage for a subscriber from the IN Platform via the RMS Manager. Examples of the bundles are SMS bundles, either purchases or promotional, and MMS messages. The type of service is restricted to “T22” currently, but may be expanded in the future. The SERVICE\_TYPE parameter shall be ‘T22’ to receive all the SMS bundles for a prepaid subscriber.

*Table 83: Query: T22 Bundle Service Usage – In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(1) | M (MSISDN) |
| SERVICE\_TYPE | String(3) | T22 = SMS |

*Table 84: Query: SMS Bundle Usage – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| Available Promotional SMS Bundle | String | Promotional SMS Bundle query – The number of Promotional SMS’s available |
| SMS Bundle Expiry Date | String | Purchased SMS Bundle Query – The date the bundle expires in yyyymmdd format e.g. “20041231” |
| SMS Bundle Size | Number | Purchased SMS Bundle Query – The size of the SMS bundle |
| Available SMS Bundle | Number | Purchased SMS Bundle Query. The number of remaining SMS’s in the bundle. |

### Query: Vodafone Live Package Details {QVLPKG}

IDL Function: QueryFunction

Function Selector: QVLPKG

This query returns the Vodafone Live package details the subscriber has subscriber to or purchased.

*Table 85: Query: Vodafone Live Package Details – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 86: Query: Vodafone Live Package Details – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| PACKAGE\_NAME | String | Package Name |
| PACKAGE\_DESCRIPTION | String | Package Description |
| PACKAGE\_ID | String | Package ID |
| SUBSCRIPTION\_ID | String | Subscription ID |
| CONTENT\_ID | String | Contents ID |
| STATUS | String | Status of the package |
| START\_DATE | String | The Start date of the package in the format yyyy-mm-dd hh:mi:ss |
| END\_DATE | String | The end date of the package in the format yyyy-mm-dd hh:mi:ss |
| INITIAL\_TRANSACTION\_ID | String | The Initial transaction ID |
| PAYMENT\_TRANSACTION\_ID | String | The Payment transaction ID |
| PAYMENT\_METHOD | String | The Payment method |
| LAST\_PAYMENT\_DATE | String | The last payment date in the format yyyy-mm-dd hh:mi:ss |
| NEXT\_PAYMENT\_DATE | String | The next payment date in the format yyyy-mm-dd hh:mi:ss |
| LAST\_PAYMENT\_AMOUNT | String | The last payment amount |
| NEXT\_PAYMENT\_AMOUNT | String | The next payment amount |
| RECURRING | String | Whether the YES – Recurring or No = non recurring Use the first character as the indicator of the type of transaction. |

### Query: Vodafone Live Transaction Details {QVLTRN}

IDL Function: QueryFunction

Function Selector: QVLTRN

This query returns the Vodafone Live Transaction details the subscriber has actioned Vodafone Live system.

*Table 87: Query: Vodafone Live Transaction Details – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 88: Query: Vodafone Live Transaction Details – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| TRANSACTION\_NAME | String | Transaction Name |
| PACKAGE\_NAME | String | Package Name |
| TRANSACTION\_DATE | String | The date and time of the transaction in the format ‘YYYY-MM-DD HH:MI:SS’ |
| AMOUNT | String | Amount |
| CONTENT\_ID | String | Content ID |
| PAYMENT\_METHOD | String | Payment Method |
| STATUS | String | Status |
| TRANSACTION\_ID | String | Transaction ID |

### Query: Vodafone Live Credit Details {QVLCRD}

IDL Function: QueryFunction

Function Selector: QVLCRD

This query returns the Vodafone Live Credit details the subscriber has actioned on the Vodafone Live system.

*Table 89: Query: Vodafone Live Credit Details – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 90: Query: Vodafone Live Credit Details – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| PACKAGE\_NAME | String | Package Name |
| SERVICE | String | Service |
| CREDIT | String | Credit Amount |

### Query: Free Change Transaction Eligibilty {QFCTRE}

IDL Function: QueryFunction

Function Selector: QFCTRE

This query will return the eligibility of a free change transaction. If the subscriber has requested a free change within the last 1 day the result will be negative.

*Table 91: Query: Free Change Eligibility – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 92: Query: Free Change Eligibility – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| FREECHANGE\_YN | String | If a migrate product request has been submitted within the last 30 days the freechange\_yn flag will be ‘N’. If no request has been submitted the flag will be ‘Y’. |

### Query: SRM Service Requests {QSRMSR}

Function Selector: QSRMSR

IDL Function: PerformFunction

This query returns all the SRM Service Requests logged by the subscriber.

The output is a set of attributes for each statement type. The output is a set of attributes for each self help request, prefixed by the number of the SR returned and then the number of the attribute for that service request.

*Table 93: Query: SRM Service Requests – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 94: Query: SRM Service Requests – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| SR NUMBER | String | The Request number assigned by SRM |
| CREATEDDATE | String | The Create Date and Time of the Self Help request in the format “YYYY-MM-DD HH24:MI:SS” |
| SR STATUS | String | The current status of the fault |
| FAULT DESCRIPTION | String | The request description |
| GROUP TYPE | String | The group type of the request |
| FAULT TYPE | String | The fault type of the request |

### Query: SRM Service Requests {QSRMWG}

Function Selector: QSRMWG

IDL Function: PerformFunction

This query checks whether a Subscriber:

* Belongs to the VSP Service Provider
* Has Service Requests that relates to the workgroups VSP ACCOUNTS & VSP CREDIT & RISK
* Have Service Requests that have one of the following statuses:
  + Pending
  + Logged
  + Handed Over
  + Closed
* Only have closed SRs, that adhere to the above rules and these SRs are closed 14 or less days ago
* Called within Office Hours

The output will indicate that all of the above are TRUE, so that the IVR System will be able to give the Subscriber the option to be routed to a Customer Care Agent.

The output consists of a repetative Attribute List that includes all the Service Requests, adhering to the specified criteria, that were found.

*Table 95: Query: SRM Service Requests – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 96: Query: SRM Service Requests – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| GROUP TYPE | String | The group type of the request. This will only be one of the following: - VSP |
| WORKLIST | String | The worklist where the Service Requests appear This will only be one of the following: - VSP Accounts - VSP Credit & Risk |
| SR STATUS | String | The current status of the fault This will only be one of the following: - Pending - Logged - Handed Over - Closed |
| STATUS CLOSED DAYS | String | If the only SRs for this Subscriber is closed, the number of days that it has been closed. This will only be for SRs that have been closed for 14 or less days. |

### Query: Data and Fax MSISDN’s for subscriber {QDFMSI}

Function Selector: QDFMSI

IDL Function: PerformFunction

This query returns the Data and FAX MSISDN’s for a subscriber. If the subscriber does not have the data and/or fax services, the MSISDN for the service will be returned as blank.

*Table 97: Query: Data and Fax MSISDN’s– In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 98: Query: Data and Fax MSISDN’s – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| DATA MSISDN | String | Subscriber’s Data MSISDN in Number Plan appropriate format - see [3.2]. If the subscriber does not have a data service the attribute value shall be blank (“”). |
| FAX MSISDN | String | Subscriber’s Fax MSISDN in Number Plan appropriate format - see [3.2]. If the subscriber does not have a fax service the attribute value shall be blank (“”). |

### Query: Vodafone Live transaction for a Package { QVLPTR }

IDL Function: QueryFunction

Function Selector: QVLPTR

This query returns the Vodafone Live transactions that have occurred on a Vodafone Live package for a subscriber on the Vodafone Live system.

The output is a set of attributes for each attribute category. The attributes shall be appended with an underscore and a number, indicating the row number e.g. PACKAGE\_NAME\_0, TIMESTAMP\_0, AMOUNT\_0, PAYMENT\_METHOD\_0, STATUS\_0, TRANSACTION\_ID\_0, PACKAGE\_NAME\_1 …, TRANSACTION\_ID\_n where n is the number of rows returned.

*Table 99: Query: Vodafone Live Credit Details – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |
| PACKAGE ID | String | The package ID to query the transactions for. |
| SUBSCRIPTION ID | String | The subscription ID to query the transactions for. |

*Table 100: Query: Vodafone Live Credit Details – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| PACKAGE\_NAME | String | Package Name |
| TIMESTAMP | String | The date and time of the transaction in the format ‘YYYY-MM-DD HH:MI:SS’ |
| AMOUNT | String | Monetary value of the transaction |
| PAYMENT\_METHOD | String | Payment Method |
| STATUS | String | Status of the transaction |
| TRANSACTION\_ID | String | Transaction ID |

### Query: Friends and Family Service {QRYFAF}

Function Selector: QRYFAF

IDL Function: PerformFunction

This Tanzania query (Ref TZFS-157, VCFS-074) returns the Friend’s MSISDNs (for which calls are discounted) as well as the expiry date (if applicable) of the Friends and Family Service for postpaid/hybrid/prepaid subscribers. The subscriber uses a USSD string like \*144# to perform the query.

*Table 101: Query: Friends and Family Service – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 102: Query: Friends and Family Service – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| MSISDN\_1 | String | Subscriber’s Friends MSISDN in Number Plan appropriate format - see [3.2] |
| MSISDN\_2 | String | Subscriber’s Friends MSISDN in Number Plan appropriate format - see [3.2] |
| MSISDN\_3 | String | Subscriber’s Friends MSISDN in Number Plan appropriate format - see [3.2] |
| … | … | … |
| MSISDN\_N | String | Subscriber’s Friends MSISDN in Number Plan appropriate format - see [3.2]. The maximum N is configured on the database (e.g. 5) |
| EXPIRY DATE | String | The date the F&F Service expires (if applicable)  in ‘YYYY-MM-DD’ format. |

### Query: Vodacom Email Service {VTHEML}

Function Selector: VTHEML

IDL Function: PerformFunction

This query returns the Vodacom Email Service information for prepaid contract and hybrid subscribers.

Each of the email aliases may have a value or be null.

*Table 103: Query: Vodacom Email Service – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 104: Query: Vodacom Email Service – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| STATUS | String | Status of the mailbox |
| STATUS\_TIMESTAMP | String | Timestamp of the status of the mailbox in the format ‘YYYY-MM-DD HH24:MI:SS’ |
| SMS\_TIMESTAMP | String | The timestamp of the last action of an SMS sent from the mailbox in the format ‘YYYY-MM-DD HH24:MI:SS’ |
| SERVICE\_SIZE | Number | The mailbox service size in Megabytes. |
| SERVICE\_UTILISATION | Number | The number of megabytes used at the moment. |
| EMAIL\_ADDRESS | String | The Email address for the mailbox. |
| EMAIL\_ALIAS\_1 | String | Email address alias 1 |
| EMAIL\_ALIAS\_2 | String | Email address alias 2 |
| EMAIL\_ALIAS\_3 | String | Email address alias 3 |
| EMAIL\_ALIAS\_4 | String | Email address alias 4 |
| EMAIL\_ALIAS\_5 | String | Email address alias 5 |

### Query: Backup and Recovery Service {VTHBRS}

Function Selector: VTHBRS

IDL Function: PerformFunction

This query returns the Backup and Recovery Service information for prepaid contract and hybrid subscribers from the Generic SMP Platform.

*Table 105: Query: Backup and Recovery Service – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 106: Query: Backup and Recovery Service – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| STATUS | String | Status of the mailbox |

### Query: Adult Content Indicator Details {QRYADC}

Function Selector: QRYADC

IDL Function: PerformFunction

This query returns the registration information and indicator for adult content.

*Table 107: Query: Adult Content Indicator Details – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 108: Query: Adult Content Indicator Details – Out AttributeList*

| Attribute | Format | Parameter Value Description |
| --- | --- | --- |
| FIRST\_NAME | String | Subscriber’s first name as on the party role type S |
| LAST\_NAME | String | Subscriber’s last name as on the party role type S |
| GENDER | String | Subscriber’s gender as on the party role type S |
| ID\_NUMBER | String | Subscriber’s id or passport number as on the party role type S |
| ID\_TYPE | String | ID type – N for new SA ID document or P for passport |
| DOB | String | Subscriber’s DOB as on the party role type S |
| ADULT\_CONTENT | String | Subscriber attribute – Adult content – values ‘00’, ‘01’ or ‘04’ or ‘N’ |
| VALIDATE\_WITH\_SERVICE\_PROVIDER | String | Subscriber attribute – Validate future changes with service provider – values ‘MINOR’ or ‘N’ |

### Query: Query Prepaid Loyalty Points {QRYPLP}

Function Selector: QRYPLP

IDL Function: PerformFunction

This query will Query the Prepaid subscriber’s Loyalty points.

*Table 109: Query: Query Monthly Prepaid Subscriber Loyalty – InParameterList*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB\_ID | String | See *Table 2* |
| SUB\_ID\_TYPE | String | Values: ‘MSISDN’, ‘ICCID’ |

*Table 110: Query: Query Prepaid Subscriber Loyalty points: Output*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| HEADING | String | “Month, Points for Month, Recharge Points, Redeemed Points, Reversals, Deductions, Forfeit, Forfeit Date, Closing Balance Where Reversals=Positive adjustments and Deductions=Negative adjustments |
| ROW1 | String | Comma-delimited list of the current months data e.g. “November 2005,47,234,0,0,0, 01/05/2007, 32,-” |
| ROW2 | String | Comma-delimited list of the current month – 1 data e.g. “September 2005,38,234,0,0,0,23, 01/04/2007, 234” |
| ROW3 | String | Comma-delimited list of the current month – 2 data e.g. “August 2005,37,234,0,0,0,15, 01/03/2007,234” |
| … |  | … |
| ROW17 | String | Comma-delimited list of the current month – 16 data e.g. “June 2004,27,234,0,0,0,-,234” |
| ROW18 | String | Comma-delimited list of the current month – 17 data e.g. “May 2004,15,234,0,0,0,-, 01/11/2005, 234” |
| ….. |  |  |
| ROW24 | String | Comma-delimited list of the current month – 23 data e.g. “Dec 2003,15,234,0,0,0,-, 01/06/2005, 234” |
| TOTAL | String | Comma-delimited list of the total’s data e.g. “Total Points,2899” |
| TOTAL RESERVATIONS | String | Comma-delimited list of the total reservations data e.g. “Total Reservations,1000” |
| TOTAL POINTS AVAILABLE | String | Comma-delimited list of the total available points e.g. “Total Points Available,1899” |

### Query: Query Prepaid Loyalty Transactions {QRYPLT}

Function Selector: QRYPLT

IDL Function: PerformFunction

This query will Query the Prepaid subscriber’s Loyalty transactions.

*Table 111: Query: Query Prepaid Subscriber Loyalty transactions – InParameterList*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String | Values: ‘MSISDN’, ‘ICCID’ |

*Table 112: Query: Query Total Prepaid Subscriber Loyalty transactions: Output*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| DATE\_1 | String ‘YYYY-MM-DD HH24:MI:SS” | 2005-11-15 14:05:35 |
| TYPE\_1 | String | Redemption or Adjustment or Registration or Forfeit or Reservation |
| CATEGORY\_1 | String | Redemption Type or Adjustment Reason or Registration Info action (Add or Modify) or Forfeit Category |
| POINTS\_1 | String | e.g. –150 |
| BALANCE\_1 | String | e.g.1159 |
| RETAIL\_REDEMPTION\_1 | String | Information about retail redemptions. |
| … | … | … |
| DATE\_n | String  ‘YYYY-MM-DD HH24:MI:SS” | 2005-11-15 14:05:35 |
| TYPE\_n | String | Redemption or Adjustment or Registration or Forfeit |
| CATEGORY\_n | String | Redemption Type or Adjustment Reason or Registration Info action (Add or Modify) or Forfeit Category |
| POINTS\_n | String | e.g. -150 |
| BALANCE\_n | String | e.g.1159 |
| RETAIL\_REDEMPTION\_n | String | Information about retail redemptions. |

### Query: Query Voucher Recharge History {QVRHIS}

Function Selector: QVRHIS

IDL Function: PerformFunction

This query will Query the subscriber’s Voucher Recharge History. The query will return recharge history for a specified number of days from the current date.

*Table 113: Query: Query Voucher Recharge History – InParameterList*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUBSCRIBER\_ID | String | See *Table 2* |
| SUBSCRIBER\_ID\_TYPE | String | Values: ‘MSISDN’ |
| DAYS | String | The number of days to query recharge history for from the current date. The allowed values are 30, 60 and 90. |

*Table 114: Query: Query Voucher Recharge History: Output*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| VOUCHER\_PIN | String | The Pin Number of the Voucher. The middle 4 digits are masked out with “\*\*\*” |
| VOUCHER\_NUMBER | String | The voucher number |
| AMOUNT | String | The value of the recharge |
| RECHARGE\_TYPE | String | The type of recharge. Examples are ‘Voucher’, ‘USSD Recharge’, ‘Airtime Transfer’. |
| MSISDN | String | The MSISDN in Number Plan appropriate format - see [3.2] |
| EXPIRY\_DATE | String | The date the voucher expires – this is the Time window end date for the voucher. The format is “YYYY-MM-DD” |
| RECHARGE\_DATE | String | The date the recharge was done The format is “YYYY-MM-DD HH:MI:SS’. |

### Query: Query Call Limit Lock { QCLVAS }

Function Selector: QCLVAS

IDL Function: PerformFunction

This query will Query the subscriber’s Call Limit Lock parameters from the Eppix system. This function is only applicable for VSP Contract subscribers.

*Table 115: Query: Call Limit Lock – InParameterList*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUBSCRIBER\_ID | String | See *Table 2* |
| SUBSCRIBER\_ID\_TYPE | String | Values: ‘MSISDN’ |
| USER\_NAME | String | Username of iCAP user who logged request/command – Vodacom4me user name is required here. |

*Table 116: Query: Call Limit Lock: Output*

| Parameter Name | Format | Parameter Value Descriptions and Examples |
| --- | --- | --- |
| ACCOUNT\_NAME | String | Account holder name – MR AN Other |
| ACCOUNT\_NUMBER | String | Account number – N0000002 |
| ACTIVATION\_DATE | String | 2005-09-15 |
| ADMIN\_FEE | String | 0.00 |
| MSISDN | String | 829881325000 - Eppix Format |
| MAN\_AMOUNT | String | Mandatory Call Limit Amount in Rands- 600.00 |
| MIN\_AMOUNT\_PER\_PACKAGE | String | Minimum Call Limit Amount in Rands – 50.0 |
| NO\_OF\_UPDATES | String | Number of updates done this month – 0 |
| NOTIFY\_METHOD | String | Notification methods – S Other possible values: S – SMS, E – Email, F – Fax |
| NOTIFY\_VALUE | String | Notification address – 0828253304 |
| PACKAGE | String | Current package – 100 |
| RECORD\_ACTIVE | String | Status – ACTIVE |
| FIRST\_NOTICE | String | 50.00 |
| FIRST\_NOTICE\_SEND | String | 0 |
| SECOND\_NOTICE | String | 70.00 |
| SECOND\_NOTICE\_SEND | String | 0 |
| THIRD\_NOTICE | String | 90.00 |
| THIRD\_NOTICE\_SEND | String | 0 |
| FIRST\_NOTICE\_FREQ | String | 0 |
| SECOND\_NOTICE\_FREQ | String | 0 |
| THIRD\_NOTICE\_FREQ | String | 0 |
| SUBSCRIBER\_LOCKED | String | N |
| SUBSCRIBER\_NAME | String | AN Other |
| TEMP\_ACTIVE\_FROM | String | 2005-10-01 |
| TEMP\_ACTIVE\_TO | String | 2005-10-31 |
| TEMP\_OR\_PERMANENT | String |  |
| VAS\_TYPE | String | CLCK |
| VOL\_AMOUNT | String | Voluntary CLL Amount 500.00 |
| TEMP\_AMOUNT | String | Temporary CLL Amount 232.11 |
| SOFT\_LOCK\_FREQ | String | 1 |
| SOFT\_LOCK\_SEND | String | 0 |
| PACKAGE\_DESC | String | Talk 120 |
| HAS\_TEMP\_LIMIT | String | Indicator to see is there is a temporary limit – Y Y indicates Temporary, N indicates no Temporary |
| TARIFF\_PLAN | String | 100 |
| TEMP\_LIMIT\_CURR\_FUTURE | String | Indicator to see which limit is currentky in force – C C = Temp limit currently in force, F = Temp limit set for a future date. |
| CAN\_MANDATORY\_AMOUNT\_CHANGE | String | Indicator if the Man Amount canbe changed: True |
| IS\_CORPORATE\_ACCOUNT | String | Indicator if a corporate account: False |
| IS\_MANDATORY | String | Indicator if the action can be performed : True |
| DISPLAY\_DELETE\_MANDATORY\_AMOUNT | String | Indicator if the action can be performed : False |
| DISPLAY\_ADD\_RECORD | String | Indicator if the action can be performed : False |
| DISPLAY\_DELETE\_RECORD | String | Indicator if the action can be performed : false |
| DISPLAY\_UPDATE\_RECORD | String | Indicator if the action can be performed : false |
| DISPLAY\_ADD\_TEMP\_LIMIT | String | Indicator if the action can be performed : false |
| DISPLAY\_DELETE\_TEMP\_LIMIT | String | Indicator if the action can be performed : true |
| DISPLAY\_DELETE\_VOL\_AMOUNT | String | Indicator if the action can be performed : false |
| DISPLAY\_VIEW\_ORIGINAL\_LIMIT | String | Indicator if the action can be performed : true |
| DISPLAY\_VIEW\_TEMP\_LIMIT | String | Indicator if the action can be performed : false |

### Query: IN Tariff Discount {QRYINT}

Function Selector: QRYINT[[2]](#footnote-3)

IDL Function: PerformFunction

*Table 117: Query: IN Tariff Discount – InParameterList*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUBSCRIBER\_ID | String | See *Table 2* |
| SUBSCRIBER\_ID\_TYPE | String | Eg. MSISDN or M |

*Table 118: Query: IN Tariff Discount – OutParameterList*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| HEADING | String | “Tariff Discount Type, Expiry Date” |
| DATA | String | Comma delimited list of the data  eg. “4UPP – 10%,2006-02-01” |

### Query: Party Information {QRYPAR}

IDL Function: QueryFunction

Function Selector: QRYPAR

This query returns subscriber Party information per Role type.

*Table 119: Query: Party Information – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String | ‘M’ / ‘MSISDN’ ‘K’ / ‘USER\_NAME’ (ADSL user name) ‘C’ (ICCID) |
| ROLE TYPE | String | Party Role type |

*Table 120: Query: Party Information – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| Party | Structure | The Party details of the subscriber – see  Table 396 for details on the party structure |

### Query: Query Prepaid Loyalty Points Summary {QRYPLS}

Function Selector: QRYPLS

IDL Function: PerformFunction

This query will Query the Prepaid subscriber’s current Loyalty points balance.

*Table 121: Query: Query Prepaid Loyalty points – InParameterList*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String | Values: ‘MSISDN’, ‘ICCID’ |

*Table 122: Query: Query Prepaid Subscriber Loyalty points summary: Output*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| BALANCE | String | Current Loyalty Points balance. |
| TOTAL RESERVATIONS | String | Total points in all current reservations. |
| TOTAL AVAILABLE | String | Total Points Available to the subscriber : Balance – Total Reservations |
| FORFEIT | String | Number of points to be forfeited at the end the current month. |

### Query: Query subscriber information { QRABIN }

Function Selector: QRABIN

IDL Function: PerformFunction

This query returns the information about the subscribers MSISDN.

The MSISDN being queried is the latest, active MSISDN applicable subscriber information. If the MSISDN being queried is not the latest, active MSISDN, a ‘Subscriber does not exist” error message shall be returned (error Code 305).

A “No Data” error (Error Code 304) shall be raised when the input MSISDN belongs to an Available Starterpack.

SMS notifications for content successfully billed should NOT be send to the subscriber, if the applicable BILLING\_SMS\_NOTIFICATION parameter value is set to ‘1’ (No SMS Notification For Content Billed). Send SMS notifications for content successfully billed, if the applicable BILLING\_SMS\_NOTIFICATION parameter value is ‘0’ (not used). Please refer to section 5.9 for more information on the format of the flags.

*Table 123: Query: Query subscriber information – InParameterList*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String | Values: ‘MSISDN’ |
| WASP ID | String | Optional - The ID of the WASP. |
| SERVICE ID | String | Optional - The ID of the service. |

*Table 124: Query: Query subscriber information: Output*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| ICAP\_ID | String | ICAP ID |
| PAYMENT\_METHOD | String | The Payment method for the subscriber: - C (Postpaid) - P (Prepaid)  - M (Mix between Postpaid & Prepaid – include Hybrid (Topup) offers) |
| PRODUCT\_ID | String | The Offer ID the subscriber is currently on. |
| LOCK\_STATUS | String | The subscriber’s Lock Status |
| BILLING\_PLATFORM\_ID | String | The billing platform the subscriber is provisioned on. |
| T11\_MSISDN | String | The subscriber’s Primary T11 MSISDN. This will be blank if the subscriber does not have a T11 service. MSISDN in Number Plan appropriate format - see [3.2] |
| TIME\_WINDOW\_LOCK\_YN | String | The Subscriber’s time window lock state |
| SP\_SEQ | String | The subscriber’s Service Provider sequence number |
| SLAVE\_ICAP\_ID | String | The subscriber’s unique iCAP identifier in the iCAP system of the Twincall slave. If the subscriber is not a Twincall subscriber, this field will be null |
| SLAVE\_T11\_MSISDN | String | The subscriber’s slave T11 MSISDN of the Twincall slave. If the subscriber is not a Twincall subscriber, this field will be blank. If the slave does not have a T11 MSISDN, this field will be null. |
| ADULT\_CONTENT\_INDICATOR | String | The subscriber’s Adult Content Indicator. |
| START\_DATE | String | The start date of the subscriber |
| OFFER\_ID | String | The offer allocated to the subscriber |
| BILLING\_SMS\_NOTIFICATION | String | Values: ‘1’, ‘0’ (1 = Subscriber has attribute, no SMS to be sent) (0 = Subscriber doesn’t have attribute, SMS may be sent) A string depicting different call routing / attribute criteria for the subscriber. Please refer to section 5.9 for more information on the format of the flags. |
| ACTIVATION\_DATE | String | The latest activation date of the subscriber. |
| NODE | String | Node where the HIS manager is running |
| INSTANCE | String | Instance of HSI manager |
| PERF | String | Performance. This is the elapsed time in milliseconds between receiving the query at the HSI manager and returning the results. |
| ERROR\_CODE | String | Provided in the event of error (see Table 125 – Query: QRABIN - Error groups and codes) |
| ERROR\_GROUP | String | Provided in the event of error (see Table 125 – Query: QRABIN - Error groups and codes) |
| ERROR\_MESSAGE | String | Provided in the event of error (see Table 125 – Query: QRABIN - Error groups and codes) |
| WASP\_BLOCK | String | iCAP release 10.3. A value of 1 will be returned if the subscriber is NOT allowed to receive WASP content. A value of 0 will be returned if the subscriber is allowed to receive WASP content. |
| SERVICE\_START\_DATE | String | The start date of the service. Format ‘DD-MM-YYYY’ If the service does not exist or the WASP ID and SERVICE ID input parameters are not supplied a default date of ’01-01-2000’ will be returned. |
| WASP\_BLOCK\_DATE | String | The date and time on which the Content Block Attribute (Used for WASP\_BLOCK above) was last changed. The format shall be ‘DD-MM-YYYY HH24:MI:SS’. In the event that the attribute has not been changed, the default date / time of ’01-01-2000 00:00:01’ shall be returned |

In the event of an **error** the following errors will be provided

*Table 125: Query: QRABIN - Error groups and codes*

|  |  |  |  |
| --- | --- | --- | --- |
| Error\_Group | Error\_Code | iCap Error message | Comment |
| System\_Errors | 100 – 199 |  |  |
|  | 100 | System unable to process your request - Please try again later or contact the system administrator. |  |
|  | 101 | Information could not be retrieved due to network problems |  |
| Application\_Errors | 200 – 399 | Both Security and Application errors will be returned  within the Application error group. | Security errors: 200 – 299   Application errors: 300 - 399 |
|  | 200 | Invalid user or credentials supplied. |  |
|  | 201 | User account locked or expired |  |
|  | 202 | Password expired |  |
|  | 203 | Password used before |  |
|  | 204 | Insufficient privilege to perform action |  |
|  | 205 | Session expired or invalid session key |  |
|  | 206 | Unknown Security Error: {0} | {0} will be substituted with actual exception |
|  | 300 | Invalid parameter value supplied: {0} | {0} will be substituted with invalid the parameter |
|  | 301 | Mandatory parameter not supplied: {0} | {0} will be substituted with the parameter not supplied |
|  | 302 | Business Rule Violation: {0} | {0} will be substituted with actual exception |
|  | 303 | Unknown Application Error: {0} | {0} will be substituted with actual exception |
|  | 304 | No data found | Starter Pack MSISDN |
|  | 305 | Subscriber does not exist | MSISDN does not exist |

### Query: Query Bonus Recharge Voucher { QRYBRV }

***Due to the switch from RMS to VOMS, this function has been disabled on the iCAP database. The code for the query remains in the manager in the even that it is re-activated at a later date.***

Function Selector: QRYBRV

IDL Function: PerformFunction

This query returns the information about the current Bonus Recharge Voucher (if any) for a rpepaid subscriber.

*Table 126: Query: Bonus Recharge Voucher – InParameterList*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String | Values: ‘MSISDN’, ‘IMSI’ |

*Table 127: Query: Bonus Recharge Voucher: Output*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| ICAP\_ID | String | ICAP ID |
| NEXT RECHARGE DATE | String | Date of next Bonus Voucher recharge |
| REMAIN RECHARGE | String | Count of outstanding Bonus Voucher recharges remaining |
| EXPIRY DATE | String | Bonus Voucher expiry date |
| ACTIVATION DATE | String | Date of activation of Bonus Voucher |
| CREDIT AMOUNT | String | Bonus Voucher credit amount |

Note for the designer: A subscriber may only have an active Bonus Recharge Voucher if the Subscriber has an active Service Offering of Service Type ‘BRV’. This rule is maintained by Tandem, but it may simplify/speed up the lookup to check for the Service Offering first rather than wading through the recharges.

### Query: Query Recharge Voucher Details { QRYRVD }

Function Selector: QRYRVD

IDL Function: PerformFunction

This function will allow a user to query voucher details using the serial number via IVR. The function returns the following details pertaining to the voucher – DRC Query Alcatel ICC IN:

*Table 128: Query: Recharge Voucher Details – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SERIAL NUMBER | String | This field can be a 15, 17 or 18 digit number, provided by the user (Error message to be updated to reflect new rule) |

*Table 129: Query: Recharge Voucher Details – Out AttributeList (DRC)*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| returnValue | String | Return Value e.g. 0 |
| returnComment | String | Comment |
| acc\_ref | String | Account Reference |
| date\_use | String | Date Used |
| db\_name | String | e.g. VDBSRDC11 |
| end\_date | String | Valid Until e.g. 10/10/2015 |
| pin | String | Pin Code e.g. 98112 |
| raccotyp | String | Account type e.g. 0 |
| rcalltyp | String | Call type e.g. 0 |
| rchgp\_id | String | Recharge Group e.g. PROFILE1 |
| resellid | String | Reseller id |
| scnum | String | Card Number e.g. 23000000003 |
| senum | String | Serial Number e.g. 11000000000000003 |
| susp\_f | String | Suspended Indicator e.g. 1 |
| time\_use | String | Time re-charge was applied |
| used\_f | String | ‘1’if used, ‘0’if unused |
| usertype | String | e.g. 255 |
| usr\_prof | String | User profile |
| vw\_name | String | e.g. scratch1\_db11@db11 |

The highspeed function queries the DRC Alcatel ICC IN:

Example Alcatel ICC query (DRC)

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:enc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:ns0="urn:OSP\_methods" env:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">

<env:Body>

<ns0:scratch1\_display>

<senum xsi:type="xsd:string">11000000000000003</senum>

</ns0:scratch1\_display>

</env:Body>

</env:Envelope>

Example response (DRC)

<?xml version="1.0" encoding="UTF-8"?>

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:osp="urn:OSP\_methods">

<SOAP-ENV:Body SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" id="\_0">

<osp:scratch1\_displayResponse xsi:type="osp:scratch1\_displayResponse">

<returnValue xsi:type="xsd:int">0</returnValue>

<returnComment xsi:type="xsd:string"></returnComment>

<acc\_ref xsi:type="xsd:string"></acc\_ref>

<date\_use xsi:type="xsd:string"></date\_use>

<db\_name xsi:type="xsd:string">VDBSRDC11</db\_name>

<end\_date xsi:type="xsd:string">10/10/2015</end\_date>

<pin xsi:type="xsd:string">98003</pin>

<raccotyp xsi:type="xsd:string">0</raccotyp>

<rcalltyp xsi:type="xsd:string">0</rcalltyp>

<rchgp\_id xsi:type="xsd:string">PROFILE1</rchgp\_id>

<resellid xsi:type="xsd:string"></resellid>

<scnum xsi:type="xsd:string">23000000003</scnum>

<senum xsi:type="xsd:string">11000000000000003</senum>

<susp\_f xsi:type="xsd:string">1</susp\_f>

<time\_use xsi:type="xsd:string"></time\_use>

<used\_f xsi:type="xsd:string">0</used\_f>

<usertype xsi:type="xsd:string">255</usertype>

<usr\_prof xsi:type="xsd:string"></usr\_prof>

<vw\_name xsi:type="xsd:string">scratch1\_db11@db11</vw\_name>

</osp:scratch1\_displayResponse>

</SOAP-ENV:Body>

### Query: View Direct – Voucher { VTHTDC }

Function Selector: VTHTDC

IDL Function: PerformFunction

This function will allow a user to query voucher details using the serial number (via IVR). The function returns the following details pertaining to the voucher –

Purpose:

Query the Tandem for the information on a specific voucher using the card number as the key.

Card number and voucher number are the same on Tandem.

Command Structure

*Table 130: Query: View Direct Command Structure*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Target Server | Network Element | IDL | Target Method | Data Service |
| RMS {IN for DRC} | RMS {IN for DRC} | Network Element | queryCardNumber | None |

|  |  |  |  |
| --- | --- | --- | --- |
| Query type | Query Description | RMS Method Call | Output Structure |
| VTHTDC | Query By Card Number | queryCardNumber | resultCardNumber |

*Table 131: Query: View Direct – Voucher - In Attribute List:*

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Attribute Value | RMS Input Attribute | Remark/ Example |
| Voucher Num | 123123 | CardNumber | The Card number to lookup |

*Table 132: Query View Direct – Voucher - Out Attribute List:*

| Output Attribute name | Structure Element name | Formatting |
| --- | --- | --- |
| “Type” | voucherType |  |
| “Card Number” | cardNumber |  |
| “Voucher Pin” | voucherNumber | Masked Pin value: nnnn\*\*\*mmmm  where nnnn = first 4 digits and mmmm – last 4 digits. The rest of the digits are masked with a ‘\*’ |
| “MSISDN” | subscriberID | Masked MSISDN. Last 5 digits are masked with a ‘\*’. MSISDN in Number Plan appropriate format - see [3.2] |
| “Batch Number” | batchNumber |  |
| “Batch Status” | batchStatus |  |
| “Batch SP” | serviceProviderName |  |
| “Voucher Status” | voucherStatus |  |
| “Amount” | voucherDenomination |  |
| “Date and Time Redeemed” | DateandTimeRedeemed | Date time in format ccyymmddhhmmss. |
| “Expiry Date” | BatchExpireDate |  |

### Query HRL SIM Information: QRYHLR

Function Selector: QRYHLR

IDL Function: PerformFunction

This query shall return the HLR specific SIM information from the HLR. The HLR network element is SIM specific, therefore the ICCID for which the HLR should be queried must be specified.

*Table 133: Query: HLR SIM Information - In Attribute List*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String | ICCID, MSISDN |

*Table 134: Query: HLR SIM Information – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| PW | String | Call barring password |

### Query Subscriber Information Summary: QSBSUM

Function Selector:  QSBSUM

IDL Function: PerformFunction

This query returns summary information for the subscriber.

It is a less detailed and faster query than QSBPRF or QRABIN.

*Table 135 – Query: Subscriber Information Summary – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN or IMSI or ICCID |

*Table 136 – Query: Subscriber Information Summary – Out Attribute List*

| Attribute | Format | Description |
| --- | --- | --- |
| ICAP\_ID | String | The unique ID number that identifies a subscriber on iCAP |
| PAYMENT\_METHOD | String | The Payment method for the subscriber: - C (Contract = Postpaid) - P (Prepaid)  - M (Mix between Postpaid & Prepaid – includes Hybrid /Topup offers) |
| SP\_SEQ | String | The subscriber’s Service Provider sequence number |
| EXTERNAL\_ID | String | The unique ID number that identifies a subscriber on SP system (if exists) |
| OFFER\_ID | String | The subscriber’s Offer ID |
| CALL\_ROUTE\_FLAGS | String | The Subscriber’s call route flags as defined in 5.9 |

### Query: Viewthru to Trispen { VPNVTH}– No Longer Applicable

Function Selector: VPNVTH

IDL Function: PerformFunction

This function will perform the viewthru to a contract subscriber details on the VPN Licensing Server (Trispen).

*Table 137 – Provision: Viewthru to VPN Licensing Server – In AttributeList*

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

*Table 138 – Provision: Viewthru to VPN Licensing Server –Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| RETURN\_CODE | String(10) | 0 – No Error, 1 – Internal ServerError, 2 – Parameter Error, 3 – AuthCode Error, 4 – Not found (contract does not exist) |
| ISP\_NAME | String(10) | ISP Name ( “Vodacom”) |
| iCAP\_ID | String(10) | iCAP Id (VPN Contract Number) |
| ACTIVATION\_KEY | String(10) | Activation key (password) associated with the contract |
| START\_TIME | String(40) | First registration of contract on Trispen (format yyyy-mm-dd hh:mm:ss) |
| USER\_COUNT | Integer | Number of Licenses |
| STATUS | String | “Active” or “Cancelled” |

### Query MSISDN Port Status: QRYMPS

Function Selector: QRYMPS

IDL Function: PerformFunction

This query shall return the current network status of the MSISDN.

*Table 139 – Query: MSISDN Port Status - In Attribute List*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String | ICCID, MSISDN |

*Table 140 – Query: MSISDN Port Status – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| OWNER NETWORK | String | Whether the MSISDN is a Vodacom MSISDN e.g. VODACOM, MTN, CELLC |
| CURRENT NETWORK | String | The current Network the MSISDN is on e.g. if the MSISDN has been ported then this will be different to the OWNER NETWORK e.g. VODACOM, MTN, CELLC |
| PORT STATUS | String | Whether the MSISDN has been ported e.g.  Ported in, Not ported, Unknown |

### Query Subscriber Handset: QRYHND

Function Selector: QRYHND

IDL Function: PerformFunction

This query shall return all the subscriber’s handsets that are linked to a ID – SA ID or passport Number. The ID shall be the key for this view. The output is a list of attributes for each service. The attributes shall be appended with a underscore and a number, indicating the service number e.g. ST\_ID\_1, ST\_DESCRIPTION\_1, … , ST\_ID\_2, ST\_DESCRIPTION\_2, … etc.

*Table 141 – Query: Subscriber Handsets – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | ‘N’ – SA ID document, ‘P’ – Passport |

*Table 142 – Query: Query Subscriber Attributes – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| ICAP ID | String | Ex.1932997 |
| ID\_TYPE | String | Values: ‘N’ – SA ID document, ‘P’ – passport. |
| ID\_NUMBER | String | Maximum 40 characters |
| MSISDN | String | MSISDN in Number Plan appropriate format - see [3.2] |
| IMSI |  | Ex. 655011234567890 |
| IMEI |  | Ex. 352011234567890 – Handset number |
| MAKE |  | Ex. Nokia |
| MODEL |  | Ex. 3310 |
| DATE\_FROM |  | Date the Handset used from. Date in ‘YYYY-MM-DD’ format |
| DATE\_TILL |  | Date the Handset used till. Date in ‘YYYY-MM-DD’ format |

### Query Points: QRYPTS {Tanzania Only}

Function Selector: QRYPTS

IDL Function: QueryFunction

This query will return the number of points in the subscriber’s points balance.

May be used on the dedicated High Speed Interface. See [9].

The query returns a number representing the number of loyalty points accumulated by the subscriber.

*Table 143 – Query: Subscriber Handsets – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | Values: ‘M’ – MSISDN |

*Table 144 – Query: Subscriber Attributes – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| LOYALTY\_POINTS | Number | Balance of points remaining to the subscriber |

### Query: Query Blackberry Voucher Details {VTHBBV}

Function Selector: VTHBBV

IDL Function: PerformFunction

This query shall query an active prepaid subscriber’s Blackberry Voucher details.

*Table 145 – Query: Blackberry Voucher Details – InParameterList*

|  |  |  |
| --- | --- | --- |
| Parameter Name | Format | Parameter Value Description |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String | Values: ‘MSISDN’ |

*Table 146 – Query: Blackberry Voucher Details – OutParameterList*

| **Attribute** | **Format** | **Attribute Value Description** |
| --- | --- | --- |
| Voucher Number | String | Blackberry Voucher Number |
| Recharge Date | String | The date the Blackberry voucher was recharged |
| Expiry Date | String | The expiry date of the Blackberry voucher. |
| Recurring Service | String | Is the Blackberry service a recurring service or not. YES or NO. |
| Last Recurring Recharge Date | String | The date of the last recharge for the recurring service in YYYY-MM-DD format |
| Transaction Type\_n | String | Transaction type of the Blackberry voucher recharged. |
| Black Berry TID\_n | String | Transaction ID of the Blackberry voucher recharged. |
| Transaction Date and Time\_n | String | Transaction date of the Blackberry voucher recharged. |

### Query: Query Blackberry Details {QRYBLB}

Function Selector: QRYBLB

IDL Function: PerformFunction

This query shall query an active prepaid subscriber’s Blackberry details. This query shall replace VTHBBV in due time.

*Table 147 – Query: Blackberry Details – InParameterList*

|  |  |  |
| --- | --- | --- |
| Parameter Name | Format | Parameter Value Description |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String | Values: ‘MSISDN’ |

*Table 148 – Query: Blackberry Details – OutParameterList*

| **Attribute** | **Format** | **Attribute Value Description** |
| --- | --- | --- |
| BLACKBERRY TYPE | String | Name of the BB service subscriber currently has purchased i.e. BIS, BES or BMP |
| VOUCHER NUMBER | String | Blackberry Voucher Number |
| RECHARGE DATE | String | The date the Blackberry voucher was recharged. |
| EXPIRY DATE | String | The expiry date of the Blackberry voucher. |
| RECURRING SERVICE | String | Is the Blackberry service a recurring service or not. YES or NO. |
| LAST RECURRING RECHARGE DATE | String | The date of the last recharge for the recurring service In YYYY-MM-DD format |
| BLACKBERRY DATA BAL | String | Balance of the Blackberry bundle (BB10 VAS) |
| TRANSACTION TYPE\_0 | String | Transaction type of the Blackberry voucher recharged. |
| BLACKBERRY TID\_0 | String | Transaction ID of the Blackberry voucher recharged. |
| TRANSACTION DATE AND TIME\_0 | String | Transaction date of the Blackberry voucher recharged in YYYY-MM-DD HH24:MI[:SS] format |
| TRANSACTION TYPE\_1 | String | Transaction type of the Blackberry voucher recharged. |
| BLACKBERRY TID\_1 | String | Transaction ID of the Blackberry voucher recharged. |
| TRANSACTION DATE AND TIME\_1 | String | Transaction date of the Blackberry voucher recharged in YYYY-MM-DD HH24:MI[:SS] format |
| … | … | … |
| TRANSACTION TYPE\_N | String | Transaction type of the Blackberry voucher recharged. |
| BLACKBERRY TID\_N | String | Transaction ID of the Blackberry voucher recharged. |
| TRANSACTION DATE AND TIME\_N | String | Transaction date of the Blackberry voucher recharged in YYYY-MM-DD HH24:MI[:SS] format |

### Query: Query Reward Key {QRYRKY}

Function Selector: QRYRKY

IDL Function: QueryFunction

This query returns the reward key of an outstanding Loyalty reward, if any.

*Table 149 – Query: Blackberry Reward Key – InParameterList*

|  |  |  |
| --- | --- | --- |
| Parameter Name | Format | Parameter Value Description |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String | Values: ‘M’ |

*Table 150 – Query: Blackberry Reward Key – OutParameterList*

| **Attribute** | **Format** | **Attribute Value Description** |
| --- | --- | --- |
| REWARD\_KEY | Number | Reward key of redeemed but unclaimed reward |

### Query Party Field Rules : QPFRUL

Function Selector: QPFRUL

IDL Function: PerformFunction

This query shall return a list of all the fields in the party structure and the edit options for each field with respect to the function that the party field is being edited for.

The output is a list of attributes for each service. The attributes shall be appended with a underscore and a number, indicating the service number e.g. .g. ELEMENTNAME\_1, FIELDNAME\_1, VALUE\_1, RULETYPE\_1, RULE\_1, ELEMENTNAME\_2, FIELDNAME\_2, VALUE\_2, RULETYPE\_2, RULE\_2, … ELEMENTNAME\_n, FIELDNAME\_n, VALUE\_n, RULETYPE\_n, RULE\_1n etc where n is the number of rows returned.

*Table 151 – Query: Party Field Rules – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |
| FEATURE | String | The feature the party data is being edited for. The possible values are listed in Table 153 |
| USER ID | String | The user performing the Edit |

*Table 152 – Query: Party Field Rules – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| ELEMENTNAME | String | The Element within the party structure. These are: Party, IDList, ID,AddressList, Address, ContactNumList, ContactNum, RoleList, Role |
| FIELDNAME | String | The field within the Party Element. |
| VALUE | String | Indication of values applicable to the element field name  The value maybe blank |
| RULETYPE | String | The rule applicable to this field name – equal to (=), greater than or equal to (>=) or less than or equal to (<=) |
| RULE | String | The indication of how to apply the rules. The rule either have a numeric value (0 to n), or the letter ‘R’. The ‘R’ indicates that the field is a readonly field |

*Table 153: Feature Validation methods*

| Feature | Validation Method |
| --- | --- |
| Adult content | Validate that the subscriber has any one of the Adult content attributes where the Type = ‘ADC’ and the category in (01 or 04) |
| VCRP | Validate that the subscriber has any one of the Adult content attributes where the Type = ‘VCRP’ |
| Vodaworld | Validate that the subscriber has any of the Vodaworld service pf the type ‘VWD’ |
| Legal | Validate that the subscriber has legal Role ‘L’ |
| PPL | Validate that the subscriber has Prepaid Loyalty Role ‘Y’ |

### Query Entrant Competition Entry Balance: QRYEBA

Function Selector: QRYEBA

IDL Function: PerformFunction

This query shall return the number of entries an entrant has for the next competition.

*Table 154 – Query: Entrant Competition Entry Balance – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |
| COMPETITION | String(10) | Optional (Default is query the loyalty competition), Values: LOYALTY GRANDPRIZE |

*Table 155 – Query: Entrant Competition Entry Balance – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| ENTRY BALANCE | Number | The number of entries that the entrant has in the next competition |

### Query Subscriber’s VLP service offering status: QRYVLP

Function Selector: QRYVLP

IDL Function: PerformFunction

This query shall return the status of the VLP service offering on the subscriber’s service profile.

*Table 156 – Query: VLP Service Offering Status – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

Table 157 – Query: VLP Service Offering Status – Out AttributeList

| Attribute | Format | Description |
| --- | --- | --- |
| STATUS | String | Indicates if the subscriber has the VLP service. The return values are “Yes” or “No” |

### Query Handset OTA Configuration : QDVCFG

Function Selector: QDVCFG

IDL Function: PerformFunction

This query shall return the information about the services that can be set up for OTA settings on a handset. The MSISDN is the key input for this query. The ADC system will return the settings for the current handset linked to the subscriber.

*Table 158 – Query: Handset Configuration – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 159 – Query: Handset Configuration – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| MSISDN | Number | The MSISDN returned from the query. MSISDN in Number Plan appropriate format - see [3.2] |
| IMSI |  | The IMSI returned from the query |
| IMEI |  | The IMEI returned from the query |
| TID |  | The transaction ID as listed in the ADC system |
| SERVICE\_1\_SERVICENAME |  | The 1st service |
| SERVICE\_1\_SERVICETYPE |  | The 1st service |
| SERVICE\_1\_GUIDE |  | The 1st service |
| SERVICE\_1\_PCM |  | The 1st service |
| SERVICE\_1\_STATUS |  | The 1st service |
| SERVICE\_2\_SERVICENAME |  | The 2nd service |
| SERVICE\_2\_SERVICETYPE |  | The 2nd service |
| SERVICE\_2\_GUIDE |  | The 2nd service |
| SERVICE\_2\_PCM |  | The 2nd service |
| SERVICE\_2\_STATUS |  | The 2nd service |
| … |  |  |
| SERVICE\_n\_STATUS |  | The nth service |

### Query Handset OTA History : QDVHIS

Function Selector: QDVHIS

IDL Function: PerformFunction

The return attributes to the calling client shall be list of the OTA transactions a subscriber has requested. The list may be limited to a maximum of 5 rows i.e the last 5 OTA settings requests.

*Table 160 – Query: Handset Configuration – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 161 – Query: Handset Configuration – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| MSISDN | Number | The MSISDN returned from the query. MSISDN in Number Plan appropriate format - see [3.2] |
| IMSI |  | The IMSI returned from the query |
| IMEI |  | The IMEI returned from the query |
| TID |  | The transaction ID as listed in the ADC system |
| TxHistory\_1\_TID |  | The 1st transaction history information TID |
| TxHistory\_1\_TIMESTAMP |  | The 1st transaction history information Timestamp |
| TxHistory\_1\_IMEI |  | The 1st transaction history information |
| TxHistory\_1\_IMSI |  | The 1st transaction history information |
| TxHistory\_1\_MAKE |  | The 1st transaction history information |
| TxHistory\_1\_MODEL |  | The 1st transaction history information |
| TxHistory\_1\_SERVICE\_1\_SERVICENAME |  | The 1st transaction history information |
| TxHistory\_1\_SERVICE\_1\_SERVICETYPE |  | The 1st transaction history information |
| TxHistory\_1\_SERVICE\_1\_GUIDE |  | The 1st transaction history information |
| TxHistory\_1\_SERVICE\_1\_PCM |  | The 1st transaction history information |
| TxHistory\_1\_SERVICE\_1\_STATUS |  | The 1st transaction history information |
| TxHistory\_1\_SERVICE\_2\_SERVICENAME |  | The 2nd transaction history information |
| TxHistory\_1\_SERVICE\_2\_SERVICETYPE |  | The 2nd transaction history information |
| TxHistory\_1\_SERVICE\_2\_GUIDE |  | The 2nd transaction history information |
| TxHistory\_1\_SERVICE\_2\_PCM |  | The 2nd transaction history information |
| TxHistory\_1\_SERVICE\_2\_STATUS |  | The 2nd transaction history information |
| … |  |  |
| TxHistory\_1\_SERVICE\_n\_STATUS |  | The last transaction history information |
| … |  |  |
| TxHistory\_2\_TID |  | The 1st transaction history information |
| TxHistory\_2\_ TIMESTAMP |  | The 2nd transaction history information. |
| …. |  |  |
| TxHistory\_n |  | The nth transaction history information. |

### Query All Subscriber Bundles : QASBUN

Function Selector: QASBUN

IDL Function: PerformFunction

The return attributes to the calling client shall be list of the the bundle balances and expiry dates (where applicable) for all counters in the IN system.

*Table 162 – Query: All Subscriber Bundles – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 163 – Query: All Subscriber Bundles – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| Transaction Date Time | Number | Date and Time of the query for data bundles – transaction in the format ccyymmddhhmmss. |
| Sms Bundle Balance | Number | The current SMS bundle balance that the subscriber has left. |
| Sms Bundle Expiry Date | String | The current SMS Bundle Expiry Date in the format ccyymmddhhmmss. |
| Data Bundle Balance | Number | The current SMS Bundle Balance |
| Data Bundle Expiry Date | String | The current Data bundle expiry date in the format ccyymmddhhmmss. |
| Airtime Balance | Number | The current Airtime balance |
| Voice Bundle Balance | Number | The current Voice bundle balance that the subscriber has left |
| Voice Bundle Expiry Date | String | The current Voice Bundle expiry date in the format ccyymmddhhmmss. |
| Loyalty Voice Bundle Balance | Number | The current Loyalty Voice bundles balance that the sub has left |
| Loyalty Voice Bundle Expiry Date | String | The current Loyalty Voice bundle expiry date in the format ccyymmddhhmmss. |
| Recur | String | Indicator showing whether night shift service is recurring. |
| MMS Bundle Balance | Number | The current MMS bundle balance that the subscriber has left |
| MMS Bundle Expiry Date | String | The current MMS Bundle expiry date |
| Loyalty MMS Bundle balance | Number | The current Loyalty MMS bundles balance that the sub has left |
| Loyalty MMS Bundle expiry date | String | The current Loyalty MMS bundle expiry date |

### Query Call Limit Lock Settings - iCAP : QCLLSE

Function Selector: QCLLSE

IDL Function: PerformFunction

This function return the Call Limit Lock settings as stored in iCAP. The settings stored are configuration only, no usage figures are available in iCAP.

The output is a list of attributes for each CLL Setting. The attributes shall be appended with a underscore and a number, indicating the service number e.g. ST\_ID\_1, ST\_DESCRIPTION\_1, … , ST\_ID\_2, ST\_DESCRIPTION\_2, … etc.

*Table 164 – Query: Call Limit Lock Settings – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 165 – Query: Call Limit Lock Settings – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| LT\_ID | String | Limit type – CLM or CPV – CLM – Call Limit Lock Mandatory (set by supplier)  - CPV – Call Limit Lock Permanent Voluntary |
| VALUE | Number | Threshold Limit value in rands |
| ACTIVATION\_DATE | Date | Date the limit was requested – YYYY-MM-DD format |
| START\_DATE | Date | Date the limit was started – YYYY-MM-DD format |
| END\_DATE | Date | Date the limit was ended – YYYY-MM-DD format |
| THRESHOLD\_1 | number | 1st Threshold limit |
| THRESHOLD\_2 | Number | 2nd Threshold limit |
| THRESHOLD\_3 | Number | 3rd Threshold limit |
| ACTION | String | The action to be taken when the VALUE has been reached – NOT or NAL – Notify or Notify and Lock |
| NOTIFICATION\_METHOD | String | Nothfication method – SMS |
| NOTIFICATION\_NUMBER | String | Notification destination |

### Query Call Limit Lock Settings History - iCAP : QCLLSH

Function Selector: QCLLSH

IDL Function: PerformFunction

This function return the Call Limit Lock settings history as stored in iCAP. The settings stored are configuration only, no usage figures are available in iCAP.

The output is a list of attributes for each CLL Setting. The attributes shall be appended with a underscore and a number, indicating the service number e.g. LT ID\_1, VALUE\_1, … , LT ID\_2, VALUE\_2, … etc. The sets will be indicated by the ‘\_n’ parameter, where n goes from 0 to n, indicating each set

*Table 166 – Query: Call Limit Lock Settings History – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 167 – Query: Call Limit Lock Settings History – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| LT ID\_n | String | Limit ID |
| VALUE\_n | String | Limit value |
| ACTIVATION DATE\_n | String | The date the limit was activated in YYYY-MM-DD H24:MI:SS format |
| START DATE\_n | String | The date the limit was started in YYYY-MM-DD H24:MI:SS format |
| END DATE\_n | String | The date the limit was ended in YYYY-MM-DD H24:MI:SS format |
| THRESHOLD 1\_n | String | The level of the 1st warning |
| THRESHOLD 2\_n | String | The level of the 2nd warning |
| THRESHOLD 3\_n | String | The level of the 3rd warning |
| ACTION\_n | String | The action to take when the imit is reached – NOT (Notify) or NAL (Notify and Lock) |
| NOTIFICATION METHOD\_n | String | Notification Method |
| NOTIFICATION NUMBER\_n | String | Notification Destination |

### Query Proof of Ownership {QRYPOO}

Function Selector: QRYPOO

IDL Function: PerformFunction

This function provides proof of ownership by confirming whether the subscriber has made calls to the five B Party numbers provided by the subscriber, since the given “date from”. The function performs a viewthru to check for calls made for the prepaid or postpaid subscriber. The calling client will decide whether ownership is proven by examination of the output results. The calling client can then proceed with another function e.g. SIMCHG if satisfied with the proof of ownership.

*Table 168 – Query: Proof of Ownership – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |
| DATE\_FROM | String | ccyymmdd e.g. 20090101 date after which to search for the calls made by the subscriber to the following B Parties specified by the subscriber: |
| SUBSCRIBER1 | String | B Party MSISDN called by Subscriber, in international format, MSISDN in Number Plan appropriate format - see [3.2] |
| SUBSCRIBER2 | String | B Party MSISDN called by Subscriber, in international format. MSISDN in Number Plan appropriate format - see [3.2] |
| SUBSCRIBER3 | String | B Party MSISDN called by Subscriber, in international format. MSISDN in Number Plan appropriate format - see [3.2] |
| SUBSCRIBER4 | String | B Party MSISDN called by Subscriber, in international format. MSISDN in Number Plan appropriate format - see [3.2] |
| SUBSCRIBER5 | String | B Party MSISDN called by Subscriber, in international format. MSISDN in Number Plan appropriate format - see [3.2] |

*Table 169 – Query: Proof of Ownership Results – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| SUBSCRIBER1 | String | B Party MSISDN. MSISDN in Number Plan appropriate format - see [3.2] |
| YN1 | String | Y if B Party 1 was called, N if no record found |
| SUBSCRIBER2 | String | B Party MSISDN. MSISDN in Number Plan appropriate format - see [3.2] |
| YN2 | String | Y if B Party 2 was called, N if no record found |
| SUBSCRIBER3 | String | B Party MSISDN. MSISDN in Number Plan appropriate format - see [3.2] |
| YN3 | String | Y if B Party 3 was called, N if no record found |
| SUBSCRIBER4 | String | B Party MSISDN. MSISDN in Number Plan appropriate format - see [3.2] |
| YN4 | String | Y if B Party 4 was called, N if no record found |
| SUBSCRIBER5 | String | B Party MSISDN. MSISDN in Number Plan appropriate format - see [3.2] |
| YN5 | String | Y if B Party 5 was called, N if no record found |

### Query: RICA Status {QRICAT}

Function Selector: QRICAT

IDL Function: PerformFunction

This query returns information about the RICA staus of a subscriber.

*Table 170 – Query: Subscriber Information– In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

Table 171 – Query: Subscriber Information – Out AttributeList

| Attribute | Format | Description |
| --- | --- | --- |
| RICA\_STATUS | String | Y, N, P or D – ‘Registered’, ‘Not Registered’, ‘Deregister Pending’, ‘Deregistered’ |
| RICA\_DATE | String | The Date of the RICA Registration Change in the format “DD/MM/YYYY H24:MI:SS” |

### Query: RICA Status for Auto-Activations {QRYRAA}

Function Selector: QRYRAA

IDL Function: PerformFunction

***Note: This query may only be called by the HP INS. No other system may use this query.***

This query returns information about the RICA status of a subscriber.

In addition, if the subscriber’s RICA\_STATUS is N (only N – not Y, P or D), then the high-speed manager sets an attribute on the subscriber to indicate that an auto-activation was attempted but was not successful. (This attribute will trigger an auto-activation when the subscriber does subsequently legally register.)

*Table 172 – Query RICA Status for Auto-Activations – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN , ‘S’ |

Table 173 – Query RICA Status for Auto-Activations – Out Attribute List

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| RICA\_STATUS | String | I – Ignore Y – Registered N – Not Registered P – Deregister Pending D – Deregistered |
| TIMESTAMP | String | The date of the RICA registration change in the format DD/MM/YYYY H24:MI:SS |

### Query: Query RICA Information Change Dates {QRICAD}

Function Selector: QRICAD

IDL Function: QueryFunction

This query returns a list of rows indicating the dates the RICA data was changed for a subscriber. The output of this query is used as input into the RICA Information Snapshot query (3.5.71)

*Table 174 – Query: RICA Information Change Dates – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN, ICCID, ICAP\_ID. |

*Table 175 – Query: RICA Information Change Dates – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| ICAP\_ID | Number | The iCAP ID of the subscriber |
| REQUEST\_TYPE | String | The request type that triggered the change to RICA information |
| ORIGIN\_ID | String | The origin identifier of where the request originated from |
| USER\_NAME | String | The user name that logged the RICA request |
| ISSUE\_DATE | String | The issue date of the request in ‘DD/MM/YYYY HH24:MI:SS’ format e.g. ‘18/06/2009 20:01:49’ |

### Query: Query RICA Information Snapshot {QRICAS}

Function Selector: QRICAS

IDL Function: QueryFunction

This query returns the RICA information after a change in RICA data was made. The input parameters are retrieved from the QRICAD (3.5.70) query. The iCAP\_ID and the timestamp are the ICAP\_ID and ISSUE\_DATE output parameters of the QRICAD query.

*Table 176 – Query: RICA Information Snapshot – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | Number | The iCAP ID as retrived from the QRICAD query (3.5.70) |
| SUB ID TYPE | String | ICAP\_ID, Q |
| TIMESTAMP | String | The ISSUE\_DATE of the request in ‘DD/MM/YYYY HH24:MI:SS’ format e.g. ‘18/06/2009 20:01:49’ |

*Table 177 – Query: RICA Information Snapshot – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| Tparty | Party structure | The RICA information in the party structure format Table 11 – Personal Information (Party) Structure |

### Query: Query Ringback Tone Details {QRYOMB}

Function Selector: QRYOMB

IDL Function: QueryFunction

This query returns the ringback tone subscriber details as well as subscribers selected Ringback Tone details as stored on On Mobile.

Note: This query may return an output attribute list which entails multiple tones up to a maximum of 50 (each tone detail starts from SEPARATOR attribute). The query below only defines 3 tones.

*Table 178 – Query: Query Ringback Tone Details – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String | ‘M’ |

*Table 179 – Query: Query Ringback Tone Details – Out AttributeList*

| Attribute | Format | Description | On Mobile Field |
| --- | --- | --- | --- |
| START\_DATE | String | Date subscribed (subscription level) | start\_date |
| END\_DATE | String | Date unsubscribed (subscription level) | end\_date |
| ACT\_CHANNEL | String | Channel used to subscribe (SMS, Web, WAP, USSD, IVR, etc.) | activated\_by |
| DEA\_CHANNEL | String | Channel used to unsubscribe (SMS, Web, WAP, USSD, IVR, etc.) | deactivated\_by |
| SERVICE\_STATUS | String | The status of the RBT servicefor the subscriber.  • ‘new\_user’ – Not subscribed to RBT service • ‘active’ - RBT service is active on the subscriber account • ‘act\_pending’ – RBT service is activated but pending due charging or HLR activation being incomplete • ‘deactive’ - RBT service is successfully deactivated on the subscriber account • ‘deact\_pending’ - RBT service is deactivated but pending due HLR deactivation not being completed | Status |
| SEPARATOR | String | ….. |  |
| TONE\_NAME | String | Tone name | name |
| TYPE | String | Type (Content, Gifted Content) | Type |
| GIFTED | String | Gifted to or Gifted By (MSISDN) | sender\_id |
| TRNS\_DATE | String | Date/Time of transaction | set\_time |
| EXP\_DATE | String | Date/Time of expiry | end\_date |
| RNW\_DATE | String | Date/Time of next renewal (reserved for a recurring content subscription) | next\_billing\_date |
| COST | String | Cost of transaction | Amount |
| PUR\_CHANNEL | String | Channel used to purchase content (SMS, Web, WAP, USSD, IVR, copy, etc.) | selected\_by |
| SEPARATOR | String | ….. |  |
| TONE\_NAME | String | Tone name | name |
| TYPE | String | Type (Content, Gifted Content) | Type |
| GIFTED | String | Gifted to or Gifted By (MSISDN) | sender\_id |
| TRNS\_DATE | String | Date/Time of transaction | set\_time |
| EXP\_DATE | String | Date/Time of expiry | end\_date |
| RNW\_DATE | String | Date/Time of next renewal (reserved for a recurring content subscription) | next\_billing\_date |
| COST | String | Cost of transaction | Amount |
| PUR\_CHANNEL | String | Channel used to purchase content (SMS, Web, WAP, USSD, IVR, copy, etc.) | selected\_by |
| SEPARATOR | String | ….. |  |
| TONE\_NAME | String | Tone name | name |
| TYPE | String | Type (Content, Gifted Content) | Type |
| GIFTED | String | Gifted to or Gifted By (MSISDN) | sender\_id |
| TRNS\_DATE | String | Date/Time of transaction | set\_time |
| EXP\_DATE | String | Date/Time of expiry | end\_date |
| RNW\_DATE | String | Date/Time of next renewal (reserved for a recurring content subscription) | next\_billing\_date |
| COST | String | Cost of transaction | Amount |
| PUR\_CHANNEL | String | Channel used to purchase content (SMS, Web, WAP, USSD, IVR, copy, etc.) | selected\_by |

### Query: Night Shift Bundle Usage {QNSSRV}

Function Selector: QNSSRV

IDL Function: PerformFunction

The query returns the Night shift bundle information for a subscriber.

*Table 180 – Query: Night Shift Bundle Usage – In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 181 – Query: Night Shift Bundle Usage – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| Remaining Bundle | String | The balance of a subscriber’s current Night Shift bundle. |
| Expiry Date | String | The expiry date of the current Night Shift service. |
| Recur | String | Indicates whether the Night Shift service is a recurring service i.e. Recurring/Adhoc. |

### Query: Query Pending SIM Swap Details {QRYPSD}

Function Selector: QRYPSD

IDL Function: PerformFunction

This query shall return the status and date of any SIM Swaps performed within the last 24 months for a specific MSISDN, with additional information on pending SIM Swaps and the SIMS in the swap process. The attributes shal be received from the SRQ as listed below. Please see the SRQ FS **[11]** for more information on the SRQ processing.

*Table 182 – Query: Pending Sim Swap Details – In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 183 – Query: Pending Sim Swap Details – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| STATUS | Number | The values returned as defined in [11] |
| DATE | DATE | A date will not be displayed where there is no sim swap or pending SIM Swap in the past 24 months. When there is a date the date shall be displayed in the following format YYYY-MM-DD HH24:MI:SS e.g. 2008-02-01 18:40:38 |
| REQUEST SEQ | Number | The Request sequence of rthe last SIM Swap- if no SIM Swap is found, null shall be returned |

### Query: Query Broadhop Balance

Function Selector: QRYBHP

IDL Function: PerformFunction

This query shall return the subscriber’s active balance per bundle as stored on the external Broadhop System. The output attributes for the ‘Bucket’ shall be appended with an underscore and a number, indicating the row number e.g. Bucket\_1, Name\_1, Type\_1, Time Balance\_1, Bucket\_n, where n is the number of rows returned.

*Table 184 - Query: Query Broadhop Balance – In Attribute List*

| Attribute Name | Format | Mandatory/ Optional | Attribute Value Description |
| --- | --- | --- | --- |
| USER KEY | String | Mandatory | Subscriber’s Userkey. Value is equal to Service ID ‘K’. See *Table 2* |
| SERVICE ID | String | Conditional | Bundle Service being Queried Not allowed for Broadband ADSL |

*Table 185 - Query: Query Broadhop Balance – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| USER KEY | String |  |
| STATUS | String |  |
| DATA BALANCE TOTAL | String |  |
| BUCKET\_N | String |  |
| NAME\_N | String |  |
| TYPE\_N | String |  |
| DATA BALANCE\_N | String |  |
| EFFECTIVE DATE\_N | String |  |
| EXPIRATION DATE\_N | String |  |

### Query: Query Agent Authentication

Function Selector: QRYAGA

IDL Function: PerformFunction

This query authenticates an agent. The AGENT ID NUMBER/PASSPORT will be used to validate if the agent is a valid RICA agent instead of using the agent username and then look up the agent ID i.e. ICAP\VSP007KILL using the ID number .

*Table 186 - Query: Query Agent Authentication – In Attribute List*

| Attribute Name | Format | Mandatory/ Optional | Attribute Value Description |
| --- | --- | --- | --- |
| AGENT ID | String | Mandatory | The Agent’s ID ie. ID of the activation Agent eg. ICAP\VSP007KILL |
| ID TYPE | String | Mandatory | ID type – N for new SA ID document or P for passport |
| ID | String | Mandatory | The Id for the registration |

*Table 187 - Query: Query Agent Authentication – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| STATUS | String | SUCCESS/FAILURE. |
| MESSAGE | String | Reason for failure. |

*Table 188- Error messages*

| Validaton failure | HSI Return Message |
| --- | --- |
| AGENT ID not found on iCAP OR Agent’s A-role not active | Invalid AGENT ID and ID Number |
| ID NUMBER not found on iCAP | Invalid AGENT ID and ID Number |
| Both parameters are valid, but not matching | Invalid AGENT ID & ID NUMBER |

### Query: Query Mini Recurring Voucher { QRYMRV }

Function Selector: QRYMRV

IDL Function: PerformFunction

This query returns the information about the current Mini Recurring Voucher (if any) for a prepaid subscriber.

*Table 189 – Query: Query Mini Recurring Voucher – InParameterList*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String | Values: ‘MSISDN’, ‘IMSI’ |

*Table 190 – Query: Query Mini Recurring Voucher: Output*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| ICAP\_ID | String | ICAP ID |
| NEXT RECHARGE DATE | String | Date of next Mini Recurring recharge |
| REMAIN RECHARGE | String | Count of outstanding Mini Recurring recharges remaining |
| EXPIRY DATE | String | Mini Recurring Voucher expiry date |
| ACTIVATION DATE | String | Date of activation of Mini Recurring Voucher |
| CREDIT AMOUNT | String | Mini Recurring Voucher credit amount |

### Query: Query Unified Package { QUNPKG }

Function Selector: QUNPKG

IDL Function: PerformFunction

This query returns the package information on the subscriber on the Tanzania NSN Charge At Once Unified IN platform.

*Table 191 – Query: QUNPKG – InParameterList*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | Values: ‘MSISDN’, ‘IMSI’ |
| TYPE | String | The TYPE of query. The default (if no type is specified) is LIST. The Options are one of the following LIST (to list the names of all active packages on the sub) ALL (to get details of all active packages on the sub) ST (to specify the iCAP SERVICE TYPE) SO (to specify the iCAP SERVICE OFFERING) PACKAGE (to specifiy the Unified Package Name) GENERIC (to specify a type of package defined by NAME below) If the option is ST/SO/PACKAGE/GENERIC then the NAME parameter must be supplied below. |
| NAME | String | If the TYPE is ST/SO/PACKAGE, the name of the required service type/ service offering/ package will be provided (the names are as specified in the Prepaid or Postpaid Offer Specifications). Example for TYPE=ST: NAME=SBA Example for TYPE=SO: NAME=A005 Example for TYPE=PACKAGE: NAME=SMSPreOnce If the TYPE is “GENERIC” the following special values can be used for the NAME string: DATA (for Data bundle packages) SMS (for SMS bundle packages) BB (for BlackBerry packages) IB (for Internet Bomba packages) VOICE (for Voice or Talk packages) |

*Table 192 – Query: QUNPKG Output for LIST of package names*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| PackageName\_0 | String | The unified package name for package 0 |
| PackageName\_1 | String | The unified package name for package 1 |
| … |  |  |
| PackageName\_n | String | The unified package name for the nth package |

*Table 193 – Query: QUNPKG Output for Package Details (parameter name/value pairs for each package)*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| For each unified package in the result, the package name and its parameter name values pairs is returned. The package number n is indicated bythe appendix “ \_n” for each n = 0, 1, 2, … An example output is shown below for the 2 packages PackageName\_0 and PackageName\_1: | | |
| PackageName\_0 | String | DataPostPer20G |
| Status\_0 | String | active |
| SubscribeFee\_0 | String | 0 |
| PeriodicFee\_0 | String | 0 |
| ModifyFee\_0 | String | 0 |
| ReadFee\_0 | String | 0 |
| BalanceUsed\_0 | String | true |
| UnsubscribeTime\_0 | String | 2010-11-03T20:59:59.999Z |
| NextPeriodicActivity\_0 | String | 2010-10-31T21:00:00.000Z |
| ActivationStartTime\_0 | String | 2010-10-05T13:38:57.000Z |
| CurrentBalance\_0 | String | 18265517 |
| Recharge\_0 | String | 20971520 |
| BalanceName\_0 | String | DataPostPer20G:s\_PeriodicBonus |
| BalanceExpiryDate\_0 | String | 3000-12-31T20:59:59.000Z |
| BalanceCreditLimit\_0 | String | 0 |
| FocSubscribeMax\_0 | String | 0 |
| FocSubscribeAvailable\_0 | String | 0 |
| FocModifyMax\_0 | String | -1 |
| FocModifyAvailable\_0 | String | -1 |
| PackageName\_1 | String | DataPostPer10G |
| Status\_1 | String | Active |
| SubscribeFee\_1 | String | 0 |
| PeriodicFee\_1 | String | 0 |
| ModifyFee\_1 | String | 0 |
| ReadFee\_1 | String | 0 |
| BalanceUsed\_1 | String | True |
| UnsubscribeTime\_1 | String | 2010-11-03T20:59:59.999Z |
| NextPeriodicActivity\_1 | String | 2010-10-31T21:00:00.000Z |
| ActivationStartTime\_1 | String | 2010-10-05T13:38:57.000Z |
| CurrentBalance\_1 | String | 18265517 |
| Recharge\_1 | String | 20971520 |
| BalanceName\_1 | String | DataPostPer10G:s\_PeriodicBonus |
| BalanceExpiryDate\_1 | String | 3000-12-31T20:59:59.000Z |
| BalanceCreditLimit\_1 | String | 0 |
| FocSubscribeMax\_1 | String | 0 |
| FocSubscribeAvailable\_1 | String | 0 |
| FocModifyMax\_1 | String | -1 |
| FocModifyAvailable\_1 | String | -1 |
| … |  |  |

### Query: Viewthru Prepaid Overdraft Details {VTHPOD}

Function Selector: VTHPOD

IDL Function: PerformFunction

This query returns the Prepaid Overdraft details for a subscriber.

This query is made up of 2 parts – a query of the Airtime Advance details on the IN platform as well as a summary of the recharge data from within iCAP. If either section of the query is unable to complete, an error will be returned e.g. AIRTIME ADVANCE RECHARGES : No data found BUT the remaining data will be returned.

*Table 194 – Query: Viewthru Prepaid Overdraft Details – In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 195 – Query: Subscriber services – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| **PART 1** | | |
| MSISDN | String | Subscriber’s MSISDN in international format e.g. 27829806022 - MSISDN in Number Plan appropriate format - see [3.2] |
| ELIGIBLE AMOUNT | String | Value in Rands e.g. R-20.00 |
| AIRTIME ADVANCE START DATE | String | Date value in the format “YYYY-MM-DD HH24:MI:SS” |
| AIRTIME ADVANCE AMOUNT | String | Value in Rands e.g. R-20.00 |
| Balance Due | String | Value in Rands e.g. R-20.00 |
| Due Date | String | Date value in the format “YYYY-MM-DD HH24:MI:SS” |
| TIER | String | Airtime Advance Tier that is applicable to the subscriber e.g. SILVER |
| **PART 2** | | |
| SUBSCRIBER ACTIVATION DATE | String | Subscriber activation date in format ‘YYYY-MM-DD’ |
| MONTH\_0 | String | Current -1 Month In The Format “YYYY-MM” |
| QUALIFYING RECHARGES\_0 | String | Qualifying recharge spend for the month in format “Rn.nn” |
| NON-QUALIFYING RECHARGES\_0 | String | Non qualifying recharge spend for the month in format “Rn.nn” |
| TIER\_0 | String | Tier That The Subscriber Qualified For As A Result Of That Month’s Spend According To IPMS E.G. Silver, Gold, Platinum |
| DEFAULT\_0 | String | Did the subscriber default on their Airtime Advance this month “Y” or “N” |
| DEFAULT DATE\_0 | String | Date on which the subscriber defaulted in format ‘YYYY-MM-DD’ |
| MONTH\_1 | String | Current -2 month in the format “YYYY-MM” |
| QUALIFYING RECHARGES\_1 | String | Qualifying recharge spend for the month in format “nn” |
| NON-QUALIFYING RECHARGES\_1 | String | Non qualifying recharge spend for the month in format “nn” |
| TIER\_1 | String | Tier that the subscriber qualified for as a result of that month’s spend e.g. SILVER, GOLD, PLATINUM |
| DEFAULT\_1 | String | Did the subscriber default on their Airtime Advance this month “Y” or “N” |
| DEFAULT DATE\_1 | String | Date on which the subscriber defaulted in format ‘YYYY-MM-DD’ |
| … |  |  |
| MONTH\_n | String | Current -2 month in the format “YYYY-MM” |
| QUALIFYING RECHARGES\_n | String | Qualifying recharge spend for the month in format “nn” |
| NON-QUALIFYING RECHARGES\_n | String | Non qualifying recharge spend for the month in format “nn” |
| TIER\_n | String | Tier that the subscriber qualified for as a result of that month’s spend e.g. SILVER, GOLD, PLATINUM |
| DEFAULT\_n | String | Did the subscriber default on their Airtime Advance this month “Y” or “N” |
| DEFAULT DATE\_n | String | Date on which the subscriber defaulted in format ‘YYYY-MM-DD’ |

### Query: Query Subscriber Notifications Preferences – {QNTFPR}

Function Selector: QNTFPR

IDL Function: PerformFunction

To query the iCAP database for the Subscriber Notification Preferences.

The query returns a list containing 2 sets of data. The first set is a list of the subscriber contacts, and second is a list of the subscriber notification preferences.

*Table 196: Query Subscriber Notification Preferences - In Attribute List*

| Attribute Name | Format | Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | N/A | ‘MSISDN’ or ‘ICCID’or ‘ICAP\_ID’ or ‘SP\_ID’ |

*Table 197 - Query Subscriber Notification Preferences - Out Attribute List*

| Attribute Name | Format | | Attribute Value Description | |
| --- | --- | --- | --- | --- |
| CONTACT TYPE\_1 | | String | | See Notifications | |
| COUNTRY CODE\_1 | | String | | Dialling code for the country in which the number is located e.g. ‘27’ for South Africa, ‘44’ for the United Kingdom. Not used for MSISDN (contact types C and CS) | |
| AREA NETWORK CODE\_1 | | String | | Dialling code for the national area in which the number is located e.g. ‘11’ for Johannesburg or ‘21’ for Cape Town . Not used for MSISDN (contact types C and CS) | |
| DIAL NUMBER\_1 | | String | | Dialled service number(ISDN) e.g. ‘4256160’ or 10 digit MSISDN, e.g. ‘0829805125’ , or email address e.g. ‘someone@isp.com’. MSISDN in Number Plan appropriate format - see [3.2] | |
| CONTACT TYPE\_2 | | String | | See Notifications | |
| COUNTRY CODE\_2 | | String | | Dialling code for the country in which the number is located e.g. ‘27’ for South Africa, ‘44’ for the United Kingdom | |
| AREA NETWORK CODE\_2 | | String | | Dialling code for the national area in which the number is located e.g. ‘11’ for Johannesburg or ‘21’ for Cape Town or ‘82’ or ‘72’ for Vodacom | |
| DIAL NUMBER\_2 | | String | | Dialled service number(ISDN) e.g. ‘4256160’ or if mobile phone entered, e.g. 0829805125 - ‘9805125’, or email address. MSISDN in Number Plan appropriate format - see [3.2] | |
| CONTACT TYPE\_n | | String | | See Notifications | |
| COUNTRY CODE\_n | | String | | Dialling code for the country in which the number is located e.g. ‘27’ for South Africa, ‘44’ for the United Kingdom | |
| AREA NETWORK CODE\_n | | String | | Dialling code for the national area in which the number is located e.g. ‘11’ for Johannesburg or ‘21’ for Cape Town or ‘82’ or ‘72’ for Vodacom | |
| DIAL NUMBER\_n | | String | | Dialled service number(ISDN) e.g. ‘4256160’ or if mobile phone entered, e.g. 0829805125 - ‘9805125’, or email address. | |
|  | |  | |  | | |
| TIMESLOT CAT\_1 | | String | | Timeslot category (e.g. AH = All Hours) see Notifications | | |
| CONTACT TYPE\_1 | | String | | Contact Type. See Notifications | | |
| NOTIFICATION CAT\_1 | | String | | Notification Category (e.g. USAGE) See Notifications | | |
| DEFAULT\_1 | | String | | Default = ‘Y’ means subscriber has not selected a preference for this Notification Category and the Default applies | | |
| TIMESLOT CAT\_2 | | String | | Timeslot category (e.g. AH = All Hours) see Notifications | | |
| CONTACT TYPE\_2 | | String | | Contact Type. See Notifications | | |
| NOTIFICATION CAT\_2 | | String | | Notification Category (e.g. USAGE) See Notifications | | |
| DEFAULT\_2 | | String | | Default = ‘Y’ means subscriber has not selected a preference for this Notification Category and the Default applies | | |
|  | |  | |  | | |
| TIMESLOT CAT\_n | | String | | Timeslot category (e.g. AH = All Hours) see Notifications | | |
| CONTACT TYPE\_n | | String | | Contact Type. See Notifications | | |
| NOTIFICATION CAT\_n | | String | | Notification Category (e.g. USAGE) See Notifications | | |
| DEFAULT\_n | | String | | Default = ‘Y’ means subscriber has not selected a preference for this Notification Category and the Default applies | | |

### Query: Subscriber Counter Snapshot – {VTHQBN}

Function Selector: VTHQBN

IDL Function: PerformFunction

This function will query a snapshot view of all the counters on subscribers profile on the RMS system. The counter attributes shall be returned in a list of attributes as follows:  
CounterNo\_1, Type\_1, Description\_1, …. CounterNo\_2, Type\_2, Description\_2… CounterNo\_n, Type\_n, Description\_n

Where n is the number of counters returned from RMS. The attribute names in the returned data from RMS shall be used as the attribute names returned from the RMS manager.

*Table 198 – Query: Subscriber Counter Snapshot – InParameterList*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB\_ID | String | See *Table 2* |
| SUB\_ID\_TYPE | String | Values: ‘MSISDN’, ‘ICCID’ |

*Table 199 – Query: Subscriber Counter Snapshot: Output*

| Attribute | Format | Description |
| --- | --- | --- |
| Type\_1 | String | A string of the type of counter. Typical; examples are SMS, MMS, Credit, Nightshift etc. |
| CounterNo\_1 | INT | The counter number as indicated by RMS |
| Description\_1 | String | A string of the description of the counter |
| Units\_1 | String | Units in which the counter values will be displayed |
| Value\_1 | String | Current value of the specific counter |
| ExpiryDate\_1 | String | Date when the counter shall expire |
| … |  |  |
| Type\_1 | String | A string of the type of counter. Typical; examples are SMS, MMS, Credit, Nightshift etc. |
| CounterNo\_n | INT | The counter number as indicated by RMS |
| Description\_n | String | A string of the description of the counter |
| Units\_n | String | Units in which the counter values will be displayed |
| Value\_n | String | Current value of the specific counter |
| ExpiryDate\_n | String | Date when the counter shall expire |

### Query: Viewthru Gifting Transactions {VTHGTR}

Function Selector: VTHGTR

IDL Function: PerformFunction

This query returns the details of gift bundles received and given by a subscriber.

*Table 200 – Query: Viewthru Gifting Transactions – In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |

*Table 201 – Query: Viewthru Gifting Transactions – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| TRANSACTIONDATETIME\_n | String | Transfer date & time |
| FROMMSISDN\_n | String | From MSISDN in Number Plan appropriate format - see [3.2] |
| TOMSISDN\_n | String | To MSISDN in Number Plan appropriate format - see [3.2] |
| GIFTTRANSACTION\_n | String | Gift transaction (either Received or Given) |
| DELTA\_n | String | Delta (bundle size e.g. 20) |
| DELTAUNIT\_n | String | Delta unit (e.g. SMS Amount, Data Meg, MMS Amount) |
| GIFTVALUE\_n | String | Gift value (e.g. R29.00 - null if the Gift transaction is 'Received') |
| TRANSACTIONID\_n | String | Transaction id (the full transaction id) |
| VOUCHERTYPE\_n | String | Voucher type (e.g. 189) |
| Where n denotes the sequence of each Gifting Transaction record, with n starting at 0. | | |

### Query: Query Bulk SMS Service Information {QRYBSS}

Function Selector: QRYBSS

IDL Function: PerformFunction

VSP Portal calls this query to get the details of an iCAP subscriber (Ref DRFS-147).

Prepaid or postpaid – query bulk sms service information.

*Table 202 – Query Bulk SMS Service – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | MSISDN |

If there is no data (no subscriber) then no output attributes are returned. If the MSISDN is prepaid then the MSISDN and PAYMENT TYPE will be supplied. If the MSISDN is postpaid then all available data will be supplied:

*Table 203 –Query Bulk SMS Service – Out Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| MSISDN | String | Subscriber’s MSISDN in 10 digit format e.g. 0812345678. MSISDN in Number Plan appropriate format - see [3.2] |
| PAYMENT TYPE | String | PREPAID or POSTPAID |
| ACCOUNT | String | For postpaids only: the account e.g. V00001452 |
| BSS FLAG | String | For postpaids only: the flag indicates whether the subscriber has the bulk sms service on iCAP. Value = Y (Yes) or N (No). |

### Query: Query RICA Registration Counts: QRICAC

Function Selector: QRICAC

IDL Function: PerformFunction

This queries the RICA Registrations counts against an ID and ID Type.

*Table 204 – Query: Query Rica Registration Counts – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| ORIGIN ID | String | The Origin ID as supplied by the client. |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | MSISDN’ or ‘ICCID’or ‘ICAP\_ID’ |
| ID | String | The Id for the registration |
| ID TYPE | String | The Registration ID Type – P (Passport) , N (SA ID) , B (Business Registration) |

*Table 205 – Query: Query Rica Registration Counts – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| TOTAL | String | This is a count that represents the number of RICA Registrations per ID and ID Type |

### Query: Query IVR Status: QRYIVR

Function Selector: QRYIVR

IDL Function: PerformFunction

This query shall return the IVR registration status of a subscriber

*Table 206 – Query: Query IVR Status – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | ‘MSISDN’ or ‘ICCID |

*Table 207 – Query: Query IVR Status – Out Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| REGISTRATION STATUS | String | Registered Not\_Registered Deregistered |

### Query: Query IVR Terms and Conditions: QRYITC

Function Selector: QRYITC

IDL Function: PerformFunction

This query shall return the IVR terms and conditions.

*Table 208 – Query: Query IVR Terms and Conditions – Out Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| TERMS CONDITIONS | String | The terms and conditions relating to IVR registration |

### Query: Query Subscriber IVR Reminder Question: QRYIRQ

Function Selector: QRYIRQ

IDL Function: PerformFunction

This query shall return the reminder question and answer selected by a subscriber.

*Table 209 – Query: Query Subscriber IVR Reminder Question – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | ‘MSISDN’ or ‘ICCID’ |

*Table 210 – Query: Query Subscriber IVR Reminder Question – Out Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| REMINDER QUESTION | String | The reminder question that subscriber selected when registering |
| REMINDER QUESTION SEQ | String | The reminder question sequence number that subscriber selected when registering |
| REMINDER ANSWER | String | The reminder answer that subscriber selected when registering |

### Query: Query All Subscriber Questions: QRYASQ

Function Selector: QRYASQ

IDL Function: PerformFunction

This query shall return all the possible IVR questions to be displayed. This is not linked to a subscriber.

*Table 211 – Query: Query All IVR Subscriber Questions – Out Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| REMINDER QUESTION\_0 | String | The reminder question |
| REMINDER QUESTION SEQ\_0 | String | The reminder question sequence number |
| REMINDER QUESTION\_1 | String | The reminder question |
| REMINDER QUESTION SEQ\_1 | String | The reminder question sequence number |
| … | … | … |
| REMINDER QUESTION\_n | String | The reminder question |
| REMINDER QUESTION SEQ\_n | String | The reminder question sequence number |

### Query: Query DSTV Package { QDSPKG }

Function Selector: QDSPKG

IDL Function: PerformFunction

This query returns the DSTV package information on the subscriber on the Tanzania NSN Charge At Once Unified IN platform.

*Table 212: Query: QDSPKG – InParameterList*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | Values: ‘MSISDN’, ‘IMSI’ |
| TYPE | String | The Options are one of the following ST (to specify the iCAP SERVICE TYPE) If the option is ST then the NAME parameter must be supplied below. |
| NAME | String | If the TYPE is ST, the name of the required service type will be provided . Example for TYPE=ST: NAME=DSM |

*Table 213:QDSPKG - OutParameterList*

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| For each unified package in the result, the package name and its parameter name values pairs is returned. The package number n is indicated bythe appendix “ \_n” for each n = 0, 1, 2, … An example output is shown below for the 2 packages PackageName\_0 and PackageName\_1: | | |
| PackageName\_0 | String | DataPostPer20G |
| Status\_0 | String | active |
| SubscribeFee\_0 | String | 0 |
| PeriodicFee\_0 | String | 0 |
| ModifyFee\_0 | String | 0 |
| ReadFee\_0 | String | 0 |
| BalanceUsed\_0 | String | true |
| UnsubscribeTime\_0 | String | 2010-11-03T20:59:59.999Z |
| NextPeriodicActivity\_0 | String | 2010-10-31T21:00:00.000Z |
| ActivationStartTime\_0 | String | 2010-10-05T13:38:57.000Z |
| CurrentBalance\_0 | String | 18265517 |
| Recharge\_0 | String | 20971520 |
| BalanceName\_0 | String | DataPostPer20G:s\_PeriodicBonus |
| BalanceExpiryDate\_0 | String | 3000-12-31T20:59:59.000Z |
| BalanceCreditLimit\_0 | String | 0 |
| FocSubscribeMax\_0 | String | 0 |
| FocSubscribeAvailable\_0 | String | 0 |
| FocModifyMax\_0 | String | -1 |
| FocModifyAvailable\_0 | String | -1 |
| PackageName\_1 | String | DataPostPer10G |
| Status\_1 | String | Active |
| SubscribeFee\_1 | String | 0 |
| PeriodicFee\_1 | String | 0 |
| ModifyFee\_1 | String | 0 |
| ReadFee\_1 | String | 0 |
| BalanceUsed\_1 | String | True |
| UnsubscribeTime\_1 | String | 2010-11-03T20:59:59.999Z |
| NextPeriodicActivity\_1 | String | 2010-10-31T21:00:00.000Z |
| ActivationStartTime\_1 | String | 2010-10-05T13:38:57.000Z |
| CurrentBalance\_1 | String | 18265517 |
| Recharge\_1 | String | 20971520 |
| BalanceName\_1 | String | DataPostPer10G:s\_PeriodicBonus |
| BalanceExpiryDate\_1 | String | 3000-12-31T20:59:59.000Z |
| BalanceCreditLimit\_1 | String | 0 |
| FocSubscribeMax\_1 | String | 0 |
| FocSubscribeAvailable\_1 | String | 0 |
| FocModifyMax\_1 | String | -1 |
| FocModifyAvailable\_1 | String | -1 |
| … |  |  |

### Query: Query Subscriber Roaming Status: QRYROM

Function Selector: QRYROM

IDL Function: PerformFunction

This query shall return the subscriber’s current Roaming Status.

The output is a set of attributes indicating the current status for the different Roaming settings and services on a subscriber’s profile.

*Table 214 – Query: Query Subscriber Roaming Status – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | ‘MSISDN’ |

*Table 215: Query: Query Subscriber Roaming Status QRYROM - OutParameterList*

| PARAMETER NAME | Format | Parameter Value Description |
| --- | --- | --- |
| ICAP ID | Number | Subscriber ICAP ID |
| MSISDN | Number | MSISDN of the subscriber. MSISDN in Number Plan appropriate format - see [3.2] |
| CLASS | String(3) | The current Class of the subscriber – NAT, INT or ROM.  These are National, International and Roaming respectively |
| WORLD | String(1) | Y or N – indicating whether the subscriber has Vodafone World Roaming active or not |
| DATA | String(1) | Y or N – indicating whether the subscriber has Data Roaming active or not |
| SMSROAM | String(1) | Y or N – indicating whether the subscriber has SMS Roaming active or not |
| TRAVELSAVER | String(1) | Y or N – indicating whether the subscriber has Travel Saver active or not |
| VGEROAMER | String(1) | Y or N – indicating whether the subscriber has VGE Roamer active or not |
| TRAVELBUNDLE | String(1) | Y or N – indicating whether the subscriber has Travel Bundle active or not |
| WORRYFREEINT | String(1) | Y or N – indicates whether the Worry Free Integrated roaming status is active or not. (DPR Service Type, only services RR3, RR4, RR5) |
| WORRYFREEDATA | String(1) | Y or N – indicates whether the Worry Free Data roaming status is active or not. (DPR Service Type, only services RR6, RR7, RR8, RR9) |

### Query: Query Heritage Subscriber (QRYHSB)

Function Selector: QRYHSB

IDL Function: PerformFunction

This query returns subscriber information that will be used to register a subscriber on the Heritage System.

Ref TZFS-167 Mpesa Heritage.

*Table 216 – Query: Query subscriber for Heritage– In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN or ICCID |

*Table 217 – Query: Subscriber for Heritage – Out AttributeList (where the data is available, else no data)*

| Attribute | Format | Description |
| --- | --- | --- |
| Title | String | The subscriber title |
| First Name | String | The subscriber first name |
| Surname | String | The subscriber surname |
| DOB | String | The subscriber date of birth |
| Person ID Type | String | The Party ID Type Description text e.g. Passport (not P) |
| Person ID Number | String | The personal ID Number e.g. the passport’s number |
| Mpesa Status | String | Y or N This is the subscriber heritage status on iCAP which will be used when VTL queries a subscriber that needs to be added as a beneficiary on a existing subscribers heritage plan. |
| Registration State Category | String | The iCAP subscriber registration REG\_STATUS state (FREG/TREG/PREG/N) is decoded and returned as a string value as follows: Fully registered Temporary Registered Pre-Registered Un-registered |
| Registration Date | String | Date time of update of registration state on iCAP e.g. 2010-06-24 11:56:34.0 |
| Language Code | String | Language on the subscriber profile e.g. ENG / SWA / None |

### Query: Query WASP Active Services (QWSPSV)

Function Selector: QWSPSV

IDL Function: PerformFunction

This query returns the details of Active WASP Services that the subscriber has opted in to, as recorded in iCAP. A list of WASP Services will be returned, with each attribute having the row number appended.

*Table 218 - Query: Subscriber WASP Services – In AttributeList*

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Format** | **Attribute Value Description** |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | ‘C’ – ICCID ‘M’ - MSISDN ‘E’ – External subscriber Id” |

*Table 219 – Query: Subscriber WASP Services – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| WASP ID\_(N) | String | The ID of the WASP |
| SERVICE ID\_(N) | String | The SERVICE ID of the service |
| FREQUENCY\_(N) | String | The service frequency for the WASP Service |
| PRICE\_(N) | String | The Price for the service (**in Cents)** |
| SERVICE NAME\_(N) | String | The service name for the WASP Service |
| REFERENCE\_(N) | String | The reference number for the WASP Service |
| START DATE\_(N) | String | The Start date of the service in the format “YYYY-MM-DD HH24:MI:SS”. |
| DATA LOAD YN\_(N) | String | Data load process indicator(‘Y’ or ‘N’ if Null display ‘N’ |

Where (N) is the list sequence number. The sequence will start with 0.

### Query: Query WASP Inactive Services (QWSPIS)

Function Selector: QWSPIS

IDL Function: PerformFunction

This query returns the details of a subscribers WASP Inactive Services that he had opted in to, as recorded in iCAP. A list of WASP Services will be returned, with each attribute having the row number appended. Only WASP Services which have been made inactive in the last 3 months will be returned.

*Table 220 - Query: Subscriber WASP Inactive Services – In AttributeList*

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Format** | **Attribute Value Description** |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | ‘C’ – ICCID ‘M’ – MSISDN ‘E’ – External subscriber Id” |

*Table 221 – Query: Subscriber WASP Inactive Services – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| START DATE\_(N) | String | The Start date of the service in the format “YYYY-MM-DD HH24:MI:SS”. |
| END DATE\_(N) | String | The End date of the service in the format “YYYY-MM-DD HH24:MI:SS”. |
| SERVICE ID\_(N) | String | The SERVICE ID of the service |
| SERVICE NAME\_(N) | String | The service name for the WASP Service |
| WASP ID\_(N) | String | The ID of the WASP |

Where (N) is the list sequence number. The sequence will start with 0.

### Query: Query WASP Billing History (QRABBH)

Function Selector: QRABBH

IDL Function: PerformFunction

This query returns the details of a subscriber’s Billing History with regard to their WASP Services, as recorded in RAB. A list of WASP Services will be returned, with each attribute having the row number appended. Queries for extensive date ranges which are too wide will be too expensive to run on the RAB database and therefore a configured maximum range in days will limit the range. If the start and end date range exceeds this configured maximum then the end date parameter will be automatically adjusted to the start date plus the configured maximum days.

*Table 222 - Query: Subscriber WASP Billing History – In AttributeList*

| **Attribute Name** | **Format** | **Attribute Value Description** |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | ‘C’ – ICCID ‘M’ - MSISDN ‘E’ – External subscriber Id” |
| START DATE | String | The Start date range of the billing history in the format “YYYY-MM-DD HH24:MI:SS” |
| END DATE | String | The End date range of the billing history in the format “YYYY-MM-DD HH24:MI:SS” |

*Table 223 - Query: Subscriber WASP Billing History – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| SERVICE NAME\_(N) | String | The service name for the WASP Service |
| TIMESTAMP\_(N) | String | Date and time in the format “YYYY-MM-DD HH24:MI:SS” e.g. “2008-07-28 06:23:34” |
| AMOUNT\_(N) | Number | Amount of the transaction |
| CONTENT PROVIDER\_(N) | String | Content provider name |
| AUTH RESULT\_(N) | String | Authorisation of the transaction |
| AUTH RESULT DESC\_(N) | String | Authorisation result description of the transaction |
| ACC RESULT CODE\_(N) | String | Accounting result code of the transaction |
| ACC RESULT DESC\_(N) | String | Accounting result description of the transaction |
| TRANSACTION CONFIRMED\_(N) | String | Account transaction confirmed (Y = confirmed. N = WASP rolled back. Null - neither confirmed nor rolled back by the WASP) |

Where (N) is the list sequence number. The sequence will start with 0.

### Query: Query Subscriber Mailbox Details – { QRSMBX }

Function Selector: QRSMBX

IDL Function: PerformFunction

To query the iCAP database for the Subscriber’s current mailbox details.

*Table 224: Query Subscriber Mailbox Details - In Attribute List*

| Attribute Name | Format | Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | N/A | ‘MSISDN’ |

*Table 225 - Query Subscriber Mailbox Details - Out Attribute List*

| Attribute Name | Format | | Attribute Value Description | |
| --- | --- | --- | --- | --- |
| PAYMENT TYPE | | String | | P = Prepaid, C = Contract, H = Hybrid | |
| MSISDN | | String | | Primary subscriber MSISDN e.g. 270823300054156 - See *Table 2* | |
| TWINCALL MSISDN | | String | | Twincall subscriber MSISDN in e.g. 270823300054157 - See *Table 2* | |
| MAILBOX SOID | | String | | Mailbox service offering e.g. ‘M11’ | |
| MAILBOX SOID DESC | | String | | Mailbox service offering description e.g. ‘Contract Standard for GSM’ | |
| MAILBOX TYPE | | String | | Mailbox COS value. e.g. 053 | |
| MAILBOX VMS ID | | String | | Mailbox Comverse platform ID e.g. ‘38’ | |

### Query: Query Subscriber Mailbox Settings – {QRYBOX}

Function Selector: QRYBOX

IDL Function: PerformFunction

This function is used to query a subscriber’s Mailbox settings.

*Table 226: Query Subscriber Mailbox Settings - In Attribute List*

| Attribute Name | Format | Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 227 - Query Subscriber Mailbox Settings - Out Attribute List*

| Attribute | Format | Description |
| --- | --- | --- |
| MSISDN | String | The primary MSISDN number linked to this subscriber. |
| SECONDARY MSISDN NUMBER | String | A list of secondary MSISDN numbers linked to this subscriber. |
| MAILBOX PLATFORM | String | Mailbox ID |
| CLASS OF SERVICE | String | Mailbox type |
| ADINSERT SERVICE | String | Indicates if Ad Insert service is active. true=1/false=0. |
| LAST PROVISION DATE | String | Last provision date time. |
| LAST ACTIVE DATE | String | Last date time when mailbox accessed |
| AMTE SERVICE | String | Indicates if Voicemail Plus/Voicemail2SMS service is active. true=1/false=0. |
| EMAIL ADDRESS | String | vodacom-za-comverse @integration.spinvox.com if Voicemail2SMS, else other |
| ADMIN LOCK STATUS | String | Lock status of subscriber e.g. F, I, O, N |

### Query: Gifting Recharge History - ICAP {QRYGTR}

Function Selector: QRYGTR

IDL Function: PerformFunction

This query returns the details of gift bundles received and given by a subscriber as listed in the iCAP recharge history.

*Table 228 – Query: Gifting Recharge History - ICAP – In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 229 – Query: Gifting Recharge History - ICAP – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| TIMESTAMP\_n | String | Transfer date & time |
| RECHARGE TYPE\_n | String | Gift transaction – Recharge type |
| FROM MSISDN \_n | String | FROMMSISDN (in 082xx 10 digit format or Number Plan appropriate format - see [3.2] |
| VOUCHER TYPE\_n | String | Voucher type description |
| GIFT VALUE\_n | String | Gift value (e.g. R29.00 - null if the Gift transaction is 'Received') |
| TRANSACTION ID\_n | String | Transaction id (the full transaction id) |
| Where n denotes the sequence of each Gifting Transaction record, with n starting at 0. | | |

### Query: Bundle Balance – {QRBBAL}

Function Selector: QRBBAL

IDL Function: PerformFunction

This query returns the bundle balance from the IN for DRC.

*Table 230 – Query: Bundle Balance – In AttributeList*

| Attribute Name | Format | Optional / Mandatory | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | String | Mandatory | See Table 2 |
| SUB ID TYPE | String(6) | Mandatory | MSISDN |
| CATEGORY | String | Optional | SMS DATA VOICE Blackberry WiMax |

*Table 231 – Query: Bundle Balance – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| BUNDLE NAME | String | BalanceRecord.AccountType |
| BUNDLE TYPE | String | N/A |
| BUCKET ID | String | BalanceRecord.BalanceId ‘536870939’ |
| RUM USED | String | BalanceRecord.Amount |
| VALID FROM | String | BalanceRecord.ApplyTime |
| VALID UNTIL | String | BalanceRecord.ExpireTime |
| UNITS | String | N/A |

### Query: Staff Data Friend – {QRYSDF}

Function Selector: QRYSDF

IDL Function: PerformFunction

Vodacom TZN staff using a modem on the data offer SHIC can have a staff data friend. The staff data friend relationship is set up by staff from USSD Menu via a call to highspeed function ADDSDF. Ref feature specification TZFS-175.

QRYSDF returns the MSISDN of the staff data friend (if any has been set up).

*Table 232 – Query: Staff Data Friend – In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

*Table 233 – Query: Staff Data Friend – Out AttributeList*

| Attribute | Format | Description |
| --- | --- | --- |
| FRIEND MSISDN | String | MSISDN of the Staff Data Friend (if any) |

### Query: Query Outstanding Balance {QRYOAB}

Function Selector: QRYOAB

IDL Function: PerformFunction

DRC DRFS-0185 postpaid statement keywords. This function shall query VxView.

*Table 234 - Query: QRYOAB - In AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String | MSISDN |

*Table 235 Query: QRYOAB – Out AttributeList*

|  |  |  |
| --- | --- | --- |
| Attribute | Format | Description |
| BALANCE | String | Your total outstanding balance |
| BALANCE 30 DAYS | String | Your balance over 30 days |
| BALANCE 60 DAYS | String | Your balance over 60 days |
| BALANCE 90 DAYS | String | Your balance over 90 days |

### Query: Query Last invoice and last payment date {QRYLIP}

Function Selector: QRYLIP

IDL Function: PerformFunction

DRC DRFS-0185 postpaid statement keywords. This function shall query VxView.

Table 236 - Query: QRYLIP - In AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | MSISDN |

Table 237 Query: QRYLIP – Out AttributeList

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Format** | **Description** |
| INVOICE NUMBER | String | Invoice number |
| INVOICE AMOUNT | String | Invoice amount |
| LAST PAYMENT AMOUNT | String | Last payment amount |
| LAST PAYMENT DATE | String | Last payment date |

### Query: Query Account number and address details {QRYANA}

Function Selector: QRYANA

IDL Function: PerformFunction

DRC DRFS-0185 postpaid statement keywords. This function shall query VxView.

Table 238 - Query: QRYANA - In AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | MSISDN |

Table 239 Query: QRYANA – Out AttributeList

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Format** | **Description** |
| ACCOUNT NUMBER | String | Account number |
| ADDRESS DETAILS | String | Address details |
| EMAIL ADDRESS | String | Email address |

### Query: Query Survey {QRYSVY}

Function Selector: QRYSVY

IDL Function: PerformFunction

Vodacom DRC – CSI Query for survey questions.

Will check for a valid Interaction for the subscriber and send back corresponding survey questions for the Survey.

Table 240-Query: QRYSVY - In AttributeList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | ‘M’ for MSISDN. |

Table 241-Query: QRYSVY - Out AttributeList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| NO OF QUESTIONS | String | Number of questions in the Survey for the Website |
| QUESTION\_1 | String | Question Text |
| LOWER\_1 | String | Lower Limit for Answer |
| UPPER\_1 | String | Upper Limit for Answer |
| QUESTION\_2 | String | Question Text |
| LOWER\_2 | String | Lower Limit for Answer |
| UPPER\_2 | String | Upper Limit for Answer |
| QUESTION\_3 | String | Question Text |
| LOWER\_3 | String | Lower Limit for Answer |
| UPPER\_3 | String | Upper Limit for Answer |
| QUESTION\_4 | String | Question Text |
| LOWER\_4 | String | Lower Limit for Answer |
| UPPER\_4 | String | Upper Limit for Answer |
| QUESTION\_5 | String | Question Text |
| LOWER\_5 | String | Lower Limit for Answer |
| UPPER\_5 | String | Upper Limit for Answer |
|  |  |  |

### Query: Query RICA SIM SWAP Check {QRICID}

Function Selector: QRICID

IDL Function: PerformFunction

The query RICA SIM SWAP Check will query the ID that was used when the subscriber originally RICA registered the original MSISDN and compare it with the ID used to register the new ICCID given by a subscriber to do a SIM Swap on a prepaid SIM.

Table 242-Query: QRICID - Input

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | ‘M’ for MSISDN. |
| NEW ICCID | String | The NEW ICCID value for the prepaid SIM starterpack |

Table 243-Query: QRICID - Output

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| RESULT | String | Display message as in Table 244 |

Table 244: Display Messages

|  |  |
| --- | --- |
| Case | Display message |
| SIM with new ICCID not found on iCAP | SIM does not exist – cannot perform SIM Swap |
| SIM with new ICCID active for more than 24 hours | SIM Active for longer than 24 hours |
| SIM with ICCID found on iCAP but not yet RICA registered or Active | Continue with SIM Swap |
| SIM with new ICCID active for less than 24 hours | Continue with SIM Swap |

### Query: Query OCS Packages {QOCSPA}

Function Selector: QOCSPA

IDL Function: PerformFunction

This will query the Prepaid subscriber’s packages from the Online Charging System (OCS)

Table 245 - Query: Query OCS Packages - InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUBSCRIBER\_ID | String | See Table 2 |
| SUBSCRIBER\_ID\_TYPE | String | Values: ‘MSISDN’, ‘ICCID’ |

Table 246 - Query: Query OCS Packages: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| ID\_n | String | Package Id, for example, AdhocIVB |
| DESCRIPTION\_n | String | Package Description, for example, Adhoc International Voice Bundle |

Where \_n denotes the record number returned starting at 0.

### Query: Query OCS Package Item {QOCSPI}

Function Selector: QOCSPI

IDL Function: PerformFunction

This will query details of a particular Prepaid subscriber’s package from OCS.

Table 247 - Query: Query OCS Package Item - InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUBSCRIBER\_ID | String | See Table 2 |
| SUBSCRIBER\_ID\_TYPE | String | Values: ‘MSISDN’, ‘ICCID’ |
| PACKAGE\_ID | String | The individual package id to query, for example ‘AdhocIVB’ |

Table 248 - Query: Query OCS Package Item: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| SUBSCRIBE\_FEE | String | SubscribeFee Rands value |
| PERIODIC\_FEE | String | PeriodicFee Rands value |
| NEXT\_PERIODIC\_ACTIVITY | String | NextPeriodicActivity YYYY-MM-DD HH24:MI:SS |
| ACTIVATION\_STARTTIME | String | ActivationStartTime YYYY-MM-DD HH24:MI:SS |
| UNSUBSCRIBE\_TIME | String | UnsubscribeTime YYYY-MM-DD HH24:MI:SS |
| STATUS | String | Status |
| CURRENT\_BALANCE | String | CurrentBalance YYYY-MM-DD HH24:MI:SS |
| RECHARGE\_AMOUNT | String | Recharge Rands value |
| BALANCE\_NAME | String | BalanceName |
| BALANCE\_EXPIRY\_DATE | String | BalanceExpiryDate YYYY-MM-DD HH24:MI:SS |
| BALANCE\_CREDIT\_LIMIT | String | BalanceCreditLimit Rands value |

### Query: Query OCS Airtime Balance {QOCSPB}

Function Selector: QOCSPB

IDL Function: PerformFunction

This will query the Prepaid subscriber’s Airtime Balance from OCS, and any additional Airtime bundles balances that are allocated to the subscriber.

Table 249 - Query: Query OCS Airtime Balance - InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUBSCRIBER\_ID | String | See Table 2 |
| SUBSCRIBER\_ID\_TYPE | String | Values: ‘MSISDN’, ‘ICCID’ |

Table 250 - Query: Query OCS Airtime Balance: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| BALANCE | String | Subscriber Airtime Balance |
| <package name> | String | Additional AIRTIME packages allocated to the subscriber. The name of the attribute is the name of the package. The value shall be displayed in the units applicable to the package type. E.g. Airtime pacakges have a value in Rands. |
| … |  |  |
| <package name> | String | Additional AIRTIME packages allocated to the subscriber. The name of the attribute is the name of the package. The value shall be displayed in the units applicable to the package type. E.g. Airtime pacakges have a value in Rands. |

### Query: Viewthru CCS Bundle information {CCSBDV}

Function Selector: CCSBDV

IDL Function: PerformFunction

This will query the data bundle balance details on the CCS. Sets of data bundle details will be returned.

Table 251 - Query: Viewthru CCS Bundle information - InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | Values: ‘MSISDN’, ‘ICCID’ |

The output of the CCSBDV shall be the same as the QBNDET function. Please refer to QBNDET function in 3.5.9 for the output format.

### Query: Subscriber Unredeemed Gifts - {QRYGTU}

Function Selector: QRYGTU

IDL Function: PerformFunction

This query returns the details of unredeemed (non-expired) gifts for the subscriber.

Table 252: Query: Subscriber Unredeemed Gifts – In AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | Values: ‘MSISDN’ |

Table 253: Query: Subscriber Unredeemed Gifts – Out AttributeList

| Attribute | Format | Description |
| --- | --- | --- |
| TIMESTAMP\_n | String | Awarded date and time |
| FROM MSISDN \_n | String | From MSISDN (in 082xx 10 digit format or Number Plan appropriate format - see [3.2]) |
| GIFT TYPE\_n | String | Gift type description, ie Voice/SMS/Data/Voucher |
| GIFT DESC\_n | String | Gift description – ie 300MB data bundle |
| GIFT STATUS\_n | String | Allocated or Cancelled (if the subscriber changed payment type) |
| REDEMPTION CODE\_n | String | Redemtion Code for the gift |
| VALID DATE\_n | String | Date when the gift will be valid |
| REDEEM BY DATE\_n | String | Date and time before which the gift has to be redeemed |
| START TIME\_n | String | Start time of the gift in 24HH:MM, ie 13:00 |
| END TIME\_n | String | End time of the gift in 24HH:MM, ie 13:59 |
| COMPACT DESC\_n | String | Gift description without times, ie 60 Vodacom minutes |
| GIFT COST\_n | String | The cost to redeem the gift in cents. |
| PROMO DESC\_n | String | Promotion description ie Bonus Data, Summer, Dropped Call |
| Where n denotes the sequence of each Gifting Transaction record, with n starting at 0. | | |

### Query: Subscriber Redeemed Gifts - {QRYGTE}

Function Selector: QRYGTE

IDL Function: PerformFunction

This query retrieves the list of redeemed gifts for the subscriber.

Table 254: Query: Subscriber Redeemed Gifts – In AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | Values: ‘MSISDN’ |

Table 255: Query: Subscriber Redeemed Gifts – Out AttributeList

| Attribute | Format | Description |
| --- | --- | --- |
| TIMESTAMP\_n | String | Awarded date and time |
| FROM MSISDN \_n | String | From MSISDN (in 082xx 10 digit format or Number Plan appropriate format - see [3.2]) |
| GIFT TYPE\_n | String | Gift type description, ie Voice/SMS/Data/Voucher |
| GIFT DESC\_n | String | Gift description – ie 300MB data bundle. In the case of a voucher – the voucher details, including PIN |
| GIFT STATUS\_n | String | Redeemed, Donated, Cancelled (if the subscriber changed payment type), Failed (if provisioning failed) |
| REDEEMED DATE\_n | String | Date when the gift was redeemed |
| REDEMPTION CODE\_n | String | Redemtion Code for the gift |
| VALID DATE\_n | String | Date when the gift will be valid |
| SHORT DESCRIPTION\_n | String | Gift description – ie 300MB data bundle. In the case of a voucher, just the voucher type, ie Food Voucher |
| START TIME\_n | String | Start time of the gift in 24HH:MM, ie 13:00 |
| END TIME\_n | String | End time of the gift in 24HH:MM, ie 13:59 |
| COMPACT DESC\_n | String | Gift description without times, ie 60 Vodacom minutes |
| GIFT COST\_n | String | The cost to redeem the gift in cents. |
| PROMO DESC\_n | String | Promotion description ie Bonus Data, Summer, Dropped Call |
| Where n denotes the sequence of each Gifting Transaction record, with n starting at 0. | | |

### Query: Subscriber Nominated Gifts - {QRYGTN}

Function Selector: QRYGTN

IDL Function: PerformFunction

This query retrieves the list of gifts nominated by the subscriber.

Table 256: Query: Subscriber Nominated Gifts – In AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | Values: ‘MSISDN’ |

Table 257: Query: Subscriber Nominated Gifts – Out AttributeList

| Attribute | Format | Description |
| --- | --- | --- |
| TIMESTAMP\_n | String | Nominated date and time |
| TO MSISDN \_n | String | To MSISDN (in 082xx 10 digit format or in Number Plan appropriate format - see [3.2]) |
| GIFT TYPE\_n | String | Gift type description, ie Voice/SMS/Data/Voucher |
| GIFT DESC\_n | String | Gift description – ie 300MB data bundle |
| VALID DATE\_n | String | Date when the gift will be valid |
| GIFT STATUS\_n | String | Redeemed / Unredeemed |
| START TIME\_n | String | Start time of the gift in 24HH:MM, ie 13:00 |
| END TIME\_n | String | End time of the gift in 24HH:MM, ie 13:59 |
| COMPACT DESC\_n | String | Gift description without times, ie 60 Vodacom minutes |
| GIFT COST\_n | String | The cost to redeem the gift in cents. |
| Where n denotes the sequence of each Gifting Transaction record, with n starting at 0. | | |

### Query: Subscriber Available Gifts - {QRYGTA}

Function Selector: QRYGTA

IDL Function: PerformFunction

This query retrieves the list of gifts which are available for using for the current day.

Table 258: Query: Subscriber Available Gifts – In AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

Table 259: Query: Subscriber Available Gifts – Out AttributeList

| Attribute | Format | Description |
| --- | --- | --- |
| TIMESTAMP\_n | String | Awarded date and time |
| FROM MSISDN \_n | String | To MSISDN (in 082xx 10 digit format or in Number Plan appropriate format - see [3.2]) |
| GIFT TYPE\_n | String | Gift type description, ie Voice/SMS/Data/Voucher |
| GIFT DESC\_n | String | Gift description – ie 300MB data bundle |
| START TIME\_n | String | Start time of the gift in 24HH:MM, ie 13:00 |
| END TIME\_n | String | End time of the gift in 24HH:MM, ie 13:59 |
| COMPACT DESC\_n | String | Gift description without times, ie 60 Vodacom minutes |
| GIFT COST\_n | String | The cost to redeem the gift in cents. |
| Where n denotes the sequence of each Gifting Transaction record, with n starting at 0. | | |

### Query: Query Mailbox - {QRYMBX}

Function Selector: QRYMBX

IDL Function: PerformFunction

This query retrieves the mailbox settings.

For VMS\_NGCSS\_TO\_INSTAVOICE = ‘N’ it will call QRYMBX on NGCSS.

For VMS\_NGCSS\_TO\_INSTAVOICE = ‘Y’ it will call KIRQRY on KIRUSA and will return the last 10 calls.

Table 260: Query Mailbox – In AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

Table 261: Query Mailbox – Out AttributeList

| Attribute | Format | Description | | |
| --- | --- | --- | --- | --- |
| RESULT CODE | String | 0 | Success Query.  Note: Only when Resultcode is 0, other members are filled by the queried mailbox profile. Otherwise other members are empty. |
|  | String | 1 | Mailbox number is not provided |
|  | String | 4 | Mailbox does not registered |
|  | String | 7 | Failure in operating database |
|  | String | 8 | undefined message type |
|  | String | 10 | system failure |
|  | String | 13 | operator does not exist or password is wrong |
|  | String | 14 | not right of this operator |
|  | String | 18 | This mailbox is waiting deletion now. |
|  | String | 24 | The malbox number does not belong to the site |
|  | String | 25 | The operator cannot operate this mailbox,because the mailbox do not belong to it. |
|  | String | 26 | The mailbox does not belong to any operator. |
|  | String | 27 | The operator does not exist in the ZTE's inner VMS sytem. |
|  | String | 26 | The mailbox does not belong to any operator. |
|  | String | 27 | The operator does not exist in the ZTE's inner VMS sytem. |
| SERVICE CLASS | String | Service class code of mailbox, it is numerical or character string which is defined by system operator. | |
| LANGUAGE | String | The prompt language code of mailbox, it is numerical or character.  Default is 114 for French and 112 for English  The language code can be configured and modified by system administrator. | |
| PASSWORD | String | The plain password of mailbox，suggestion password is numeric number and length is 4 to 6 digits.  Default password is 8888.When one mailbox’s subscriber first enters her or his mailbox, system will ask her or him to input a new password. | |
| ENTRY AUTHENTICATE | String | Whether user is required to input password when entering mailbox to retrieve message through registered phone;  1 is yes;  0 is no; | |
| MESSAGE NOTIFY | String | Notification modes when new message is received. This field is five-digits value A1A2A3A4A5, in which:  A1 digit indicates whether this mailbox uses MWN mode.  A2 digit indicates whether this mailbox uses dial-out notification mode.  A3 digit indicates whether this mailbox uses email notification mode.  A4 digit indicates whether this mailbox uses SMS notification mode.  A5 digit indicates whether this mailbox uses MMS push notification mode. | |
| USERNAME | String | name of mailbox owner | |
| EMAIL | String | Email address of mailbox owner | |
| ZIPCODE | String | Postal code of mailbox owner | |
| ID NUMBER | String | ID number of mailbox owner | |
| USER STATUS | String | status of mailbox:  1 normal/in using  2 suspend  3 reset  4-deactivate/freeze | |
| MWN TYPE | String | The new voicemail notification type:  0 NoRmal Text  1 GSM SMPP  2 CDMA SMPP  3 EPI Command  4 IS41 SMSREQ | |
| MWN DEST | String | The mbox’s notification number for new voice mail. | |
| MMS DEST | String | The notification number for new voice mail.  Default is the same with the BoxNumber | |
| LD OPERATOR CODE | String | The long-distance operator access code used for call return in voice mail service or for call back number in MCA short message... | |
| TERMINAL TYPE | String | The Terminal type  0-common mobile telephone  1-Apple Iphone  Default 0 | |
| BILLING NUMBER | String | Caller number of out-dial calling to send fax | |
| SMS NOTIFY PHONE | String | number of receiving SMS Notification | |
| SECONDARY 1 | String | The Secondary number 1 binding with mailbox | |
| SECONDARY 2 | String | The Secondary number 2 binding with mailbox | |
| SECONDARY 3 | String | The Secondary number 3 binding with mailbox | |
| SECONDARY 4 | String | The Secondary number 4 binding with mailbox | |
| SECONDARY 5 | String | The Secondary number 5 binding with mailbox | |
| MCA SERVICE | String | deactivate  activate | |
| CMN SERVICE | String | deactivate  activate | |
| USER TYPE | String | The user type  0-prepaid  1-postpaid  Default 0 | |
| COM LANG | String | The specifically prompt language code of mailbox, it is numerical.  Default is 1 for English. | |
| BRAND CODE | String | Operator can configuration the subscriber belongs to which brand | |
|  |  |  | |
|  |  |  | |
|  |  |  | |

### Query: Query Subscriber Roaming Service Offering {QROMSO}

Function Selector: QROMSO

IDL Function: PerformFunction

This will query the current Roaming Service Offering for a subscriber.

Table 262 - Query: Query Subscriber Roaming Service Offering – In AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | Values: ‘MSISDN’ |

Table 263 - Query: Query Subscriber Roaming Service Offering – Out AttributeList

| **Attribute Name** | **Format** | **Attribute Value Description** |
| --- | --- | --- |
| SO ID | String | Service Offering Id eg. SMR, MSP, DPC, VGEC, etc |

### Query: View U Choose Smart bundles – {VTHUCS}

Function Selector: VTHUCS

IDL Function: PerformFunction

This query is similar to VTHQBN but only filters by 3 specific counter values. Please refer to 0 for more detail.

Table 264 – Query: View U Choose Smart – InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB\_ID | String | See Table 2 |
| SUB\_ID\_TYPE | String | Values: ‘MSISDN’, ‘ICCID’ |

Table 265 – Query: View u Choose Smart bundles: Output

|  |  |  |
| --- | --- | --- |
| Attribute | Format | Description |
| Type\_1 | String | A string of the type of counter. Typical; examples are SMS, MMS, Credit, Nightshift etc. |
| CounterNo\_1 | INT | The counter number as indicated by RMS |
| Description\_1 | String | A string of the description of the counter |
| Units\_1 | String | Units in which the counter values will be displayed |
| Value\_1 | String | Current value of the specific counter |
| ExpiryDate\_1 | String | Date when the counter shall expire |
| … |  |  |
| Type\_1 | String | A string of the type of counter. Typical; examples are SMS, MMS, Credit, Nightshift etc. |
| CounterNo\_n | INT | The counter number as indicated by RMS |
| Description\_n | String | A string of the description of the counter |
| Units\_n | String | Units in which the counter values will be displayed |
| Value\_n | String | Current value of the specific counter |
| ExpiryDate\_n | String | Date when the counter shall expire |

### Query: QRYSVB - Query Product Bundles

Function Selector: QRYSVB

IDL Function: PerformFunction

This will return any active bundles for a particular configured product for a prepaid subscriber.

Table 266 - Query: Query Service Bundles - InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | Values: ‘MSISDN’ |
| PRODUCT NAME | String | Product Id. Ex. ‘ALL’ to display all products configured, or for a specific product ‘MyTop5’. For a full list of configured products see Table 437. |

Table 267 - Query: Query Service Bundles: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| PRODUCT NAME\_n | String | Name of the configured product |
| BUNDLE NAME\_n | String | Display name of the bundle |
| BUNDLE TYPE\_n | String | Type of bundle. Airtime, Internet(data), SMS |
| CURRENT BALANCE\_n | String | Available value for the bundle. Alternatively, may be null if the bundle is an incremental up bundle with a threshold. |
| BUNDLE SIZE\_n | String | The amount that is periodically recharged on the package |
| USED\_n | String | Calculated BUNDLE SIZE – CURRENT BALANCE. Null if bundle is configured without a bundle size. Calculated value will display actual usage recorded. |
| BUNDLE UNITS\_n | String | Examples may be Minutes, Units, KB |
| ACTIVATION START TIME\_n | String | Date and time when bundle was activated. Example 2013-07-02 09:42:20 |
| EXPIRY DATE\_n | String | Date & Time the bundle will expire. Example 2013-07-02 09:42:20 |
| BUNDLE PERIOD\_n | String | The period that the bundle applies to. Can be Adhoc or Recurring |
| VALIDITY\_n | String | The valid range of the bundle. Example 24 Hours |
| CONSUMPTION ORDER\_n | Integer | The order in which bundles are consumed according to VC Engineering. |

Where \_n denotes the record number returned starting at 0.

### Query: Query SIM Swap Count - {QRYSSC}

Function Selector: QRYSSC

IDL Function: PerformFunction

This query will return the number of SIM Swap’s that has been performed in the past 3 months as well as details for these swaps, including the date, old and new ICCID.

Table 268 - Query: Query SIM Swap Count - InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | Values: ‘MSISDN’ |

Table 269 - Query: Query SIM Swap Count: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| COUNT | String | Number of SIM Swaps done |
| DATE\_n | String | Date of SIM Swap |
| OLD ICCID\_n | String | Old ICCID |
| NEW ICCID\_n | String | New ICCID |

Where \_n denotes the record number returned starting at 0.

### Query: Viewthru CCS Bundle Summary Information {CCSBDS}

Function Selector: CCSBDS

IDL Function: PerformFunction

This query shall return the summary of a subscriber’s bundles on the external CCS (Converged Charging System) system. The query can be seen as a summarised version of CCSBDV in section 3.5.108.

Table 270 - Query Summarised CCS Bundle Information - In AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | MSISDN, ICCID |

Table 271 Query: Query Summarised CCS Bundle Information -Out AttributeList

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Format** | **Description** |
| SERVICE TYPE\_n | String | Bundle e.g. G00 |
| SERVICE\_n | Sting | Sub type of bundle e.g. 2.5 GIG |
| TOTAL AVAILABLE\_n | String | Available balance e.g. 2.50GB |

Where n is the number of bundles returned

### Query: Query Voice Biometrics Profile {QRYVBP}

Function Selector: QRYVBP

IDL Function: PerformFunction

This query shall return the summary of a subscriber’s Voice Biometric attribute flags to indicate if a subscriber has been registered for Voice Biometrics and the status of the opt out flag.

Table 272 - Query Voice Biometrics Profile- In AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | MSISDN, ICCID |

Table 273 Query: Query Voice Biometrics Profile -Out AttributeList

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Format** | **Description** |
| REGISTERED | String | Y/N Flag indicator if Subscriber is registered |
| OPT OUT | String | Y/N Flag indicator if Subscriber has chosen to opt out |
| SPEAKER ID | String | Unique Speaker ID e.g. f81d4fae-7dec-11d0-a765-00a0c91e6bf6 |
| VALIDATED | String | Flag indicating the validation status of a subscriber |

### Query: Query Attribute Flags {QATFLG}

Function Selector: QATFLG

IDL Function: PerformFunction

This query shall return a subscriber’s attribute flags as in SA\_VW\_H\_SUBS.

Table 274 - Query Attribute Flags- In AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | MSISDN, ICCID |

Table 275 – Query: Attribute Flags- Out AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| ATTFLAGS | String | A string depicting different attribute flags. May be used as an extension for call routing criteria for a subscriber. Please refer to section 5.10 for more information on the format of the flags. |
| ICAP\_ID | String | The subscriber’s iCAP ID |

### Query: Specified Subscriber Information {QSSINF}

Function Selector: QSSINF

IDL Function: PerformFunction

This query returns information about a specified subscriber on the administration system.

Table 276 – Query: Specified Subscriber Information– In Attribute List

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

Table 277 – Query: Subscriber Information – Out AttributeList

| Attribute | Format | Description |
| --- | --- | --- |
| PP\_SMP | String | Prepaid platform the subscriber is on |
| SP | String | The Service provider for the subscriber |
| ICAP\_SP\_ID | String | The iCAP SP ID of the subscriber |
| GENESYS\_SP\_ID | String | The Genesys Service Provider description of the subscriber. See 5.5 for more details. |
| LOCK\_STATUS | String | The subscriber’s Lock status  ‘N’ = Not Locked  ‘F’ = Full Locked  ‘I’ = Locked for Incoming Calls  ‘O’ = Locked for Outgoing Calls |
| PUK | String | The subscriber’s PUK number |
| PRODUCT\_ID | String | The subscriber’s product ID – derived from the subscriber’s offer id. If the subscriber has been deleted, the offer id is returned. See [3] for more details on the possible values. |
| SUBSCRIBER\_TYPE | String | The subscriber type :  ‘PPD’ = Prepaid  ‘CON = Contract |
| MSIN | String | The subscriber’s current MSIN format ‘hhnnnnnnnn’ |
| ICC\_ID | String | The subscriber’s ICCID Number e.g. ‘89980000000000000012’ |
| BILLING\_TYPE | String | Billing type:  ‘min’ = per minute  ‘sec’ = per second  ‘4U’ = 4U billing type |
| MSISDN | String | Subscriber MSISDN in 10 digit format or Number Plan appropriate format - see [3.2] |
| TW\_STATUS | String | Time Window Status (not applicable for Contract subscribers) : -  NULL or blank – not applicable for this subscriber.  ‘LIVE’ - the subscriber does not have a time window lock status  ‘DEL REQ’ – a delete has been requested on this subscriber  ‘SHIP’ – the subscriber has never been activated  ‘EXPIRE’ – the subscriber has expired. |
| OFFER\_ID | String | The Subscriber’s Offer Id e.g. ‘BUS’ Business,  ‘WTP = Weekend Top Up |
| TWC\_STATUS | String | The Twincall Status of the subscriber :  ‘M” = Master SIM  ‘S’ = Slave SIM |
| ICAP\_ID | String | The subscriber’s iCAP ID |
| PAYMENT\_METHOD | String | P = Prepaid, C = Contract, M = Mixed (Hybrid) |

### Query One-Net Profile {QRYONP}

Function Selector: QRYONP

IDL Function: PerformFunction

This query shall return the profile of a One-Net subscriber, including details of the VPN (Virtual Private Network) and HGN (Hunt Group Number).

Table 278 - Query : Query One-Net Profile- AttributeList

| Parameter Name | Mandatory/Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Values: ‘MSISDN’, ‘ICCID’, ‘ICAP\_ID’, 'Enterprise ID' |

Table 279: Output Attributes List

|  |  |  |
| --- | --- | --- |
| Attribute | Format | Description |
| ICAP ID | String | Subscriber’s iCAP Id |
| STATUS | Sting | Subscriber’s Status (Avtive or Deleted) |
| LOCK STATUS | String | Subscriber’s Lock Status (I (Incoming), O (Outgoing), F (Full) or N (None) |
| TARIFF | String | Subscriber’s current offer (eg. 4UPP) |
| PAYMENT METHOD | String | Subscriber’s Payment Method (PREPAID,POSTPAID or TOPUP) |
| GEO INDICATOR | String | Whether the Subscriber’s Offer belongs to the GEOGSM Offer Family (Y/N) |
| SERVICE PROVIDER | String | Subscriber’s Service Provider Sequence |
| CUG SERVICE | String | Subscriber’s CUG/VPN Service Offering Id |
| VPN ID | String | iCAP Id of the 1NE/CUG Offer that the Subscriber is linked to. |
| CMBX INDICATOR | String | Subscriber’s CMBX Service Offer Id |

### Query One-Net VPN Members {QRYOVM}

Function Selector: QRYOVM

IDL Function: PerformFunction

This query shall return a list of MSISDNs linked to a particular VPN.

Table 280 - Query : Query One-Net VPM Members- AttributeList

| Parameter Name | Mandatory/Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Values: ‘MSISDN’, ‘ICCID’, ‘ICAP\_ID’, 'Enterprise ID' |

Table 281: Output Attributes List

|  |  |  |
| --- | --- | --- |
| Attribute | Format | Description |
| ICAP ID\_n | String | Subscriber’s iCAP Id which is linked to the VPN |
| MSISDN\_n | String | Subscriber’s MSISDN which is linked to the VPN |

Where \_n denotes the record number returned starting at 0.

### Query One-Net CUG Minutes {VTHONE}

Function Selector :  VTHONE

IDL Function: PerformFunction

This function will query details of the allocated OneNet CUG minutes from the RMS system. The counter attributes shall be returned in a list of attributes as follows: CounterNo\_0, Type\_0, Description\_0, …. CounterNo\_1, Type\_1, Description\_1… CounterNo\_n, Type\_n, Description\_n

Where n is the number of counters returned from RMS – starting at 0.

Table 282: Query : OneNet CUG Minutes- AttributeList

| Parameter  Name | Mandatory/Optional | Format | Parameter &  Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Values: ‘MSISDN’, ‘ICCID’ |

Table 283: Output Attributes List

|  |  |  |  |
| --- | --- | --- | --- |
| Field name | Type | Length | Values |
| TYPE\_n | String |  | A string of the type of counter.  Typical; examples are SMS, MMS, Credit, Nightshift etc. |
| COUNTERNO\_n | String |  | The counter number as indicated by RMS |
| DESCRIPTION\_n | String |  | A string of the description of the counter |
| UNITS\_n | String |  | Units in which the counter values will be displayed |
| VALUE\_n | String |  | Current value of the specific counter |
| EXPIRYDATE\_n | String |  | Date when the counter shall expire |

Where \_n denotes the record number returned starting at 0.

### Query Product ID – {QRYPID}

Function Selector: QRYPID

IDL Function: PerformFunction

This query shall return a list of product ID’s in a dropdown menu available for selection. A Numeric ID will be received back as outputs for package.

Table 284: Query Product ID – Attribute List

| Parameter Name | Mandatory/Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Values: ‘MSISDN’, ‘ICCID’, ‘ICAP\_ID’, 'Enterprise ID' |
| NE ID | Mandatory | String | Values: e.g. RMS |

Table 285: Attribute Output List

|  |  |  |
| --- | --- | --- |
| Attribute | Format | Description |
| PRODUCT\_ID\_n | String | Examples are ‘All’, ‘Weekly SMS’, ‘Smart Bundles’ etc. |
| PACKAGE\_n | String | Also known as service\_type. Consists of certain numerical input parameters eg. 11, 12, 13 etc. |

Where \_n denotes the record number returned starting at 0.

### Query Bundle Information Viewthru – {QRYSMB}

Function Selector: QRYSMB

IDL Function: PerformFunction

This query shall return a viewthru to RMS/PPFE, which will query the current rewards that the sub has redeemed. The parameter PACKAGE is the same as the one referred to in QRYPID (3.5.125).

Table 286: Query Product ID – Attribute List

| Parameter Name | Mandatory/Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Values: ‘MSISDN’, ‘ICCID’, ‘ICAP\_ID’ |
| PACKAGE | Mandatory | String | Also known as service\_type. Consists of certain numerical input parameters eg. 11, 12, 13 etc. |

Table 287: Attribute Output List

|  |  |  |
| --- | --- | --- |
| Attribute | Format | Description |
| SMART\_VOUCHER\_TYPE\_n | Char | The smart voucher type is used to group 1 or more voucher types together. This is intended for products where a single purchase or provision can give the sub more than 1 bundle, where each bundle has a different voucher type. |
| VOUCHER\_TYPE\_n | Char | The voucher type of the bundle. |
| SMART\_BUNDLE\_ID\_n | Char | A unique value identifying the smart bundle.  Each smart bundle of a sub has a unique ID. This is used to identify the particular smart bundle, since it might be possible for a sub to have more than 1 smart bundle with the same voucher type at the same time. It is required when updating or deleting smart bundles. |
| BUNDLE\_ID\_n | Char | When purchasing a smart bundle that gives a sub more than 1 bundle, the bundled ID is used to identify a particular bundle of the smart bundle.  It is required when updating or deleting a specific bundle of a smart bundle and is used with the smart bundle ID to identify the bundle. |
| BUNDLE\_NAME\_n | Char | The name of the bundle. |
| PURCHASE\_DATE\_n | Char | The date the bundle was purchased. Format = dd-mm-ccyy |
| PURCHASE\_TIME\_n | Char | The time the bundle was purchased. Format = HHMMSS (24 hour time). |
| ACTIVATION\_DATE\_n | Char | The date in which the bundle will become active. Format = dd-mm-ccyy |
| EXPIRY\_DATE\_n | Char | The date in which the bundle expires. Format = dd-mm-ccyy |
| LAST\_TOPUP\_DATE\_n | Char | The date in which the last top up occurred. Format = dd-mm-ccyy |
| NEXT\_TOPUP\_DATE\_n | Char | The date in which the next top up will occur. Format = dd-mm-ccyy |
| PERIOD\_n | Char | The total number of times that the bundle will be topped up. This value includes the initial top up that was done when the product became active. |
| REMAINING\_TOPUPS\_n | Char | The number of top ups remaining for the bundle. |
| TOPUP\_VALUE\_n | Char | The value with which the bundle is topped up. |
| BALANCE\_n | LongInt | The IN balance of the bundle type |
| UOM\_n | Char | Unit of measure e.g kB for Data |
| ADDITIONAL\_PARM\_n | Char | Additional information can be returned in this field. |
| DESCRIPTION\_n | Char | Description of a service e.g. Ad hoc SMS bundle. |
| X\_TOTAL\_n | LongInt | Consolidates the various services and returns the totals for each of the bundle services where X is one of the following values: SMS, Data, MMS, etc. |

### Viewthru Corporate Mailbox {VTHCMX}

Function Selector: VTHCMX

IDL Function: PerformFunction

This vewthru query shall return the One Net Corporate Mailbox details

Table 288 - Query : Viewthru One Net Corporate Mailbox - AttributeList

| Parameter Name | Mandatory/Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Value: ‘MSISDN’ |

Output Attributes List:

|  |  |  |
| --- | --- | --- |
| Attribute | Format | Description |
| OWNER NUMBER | String | Owner Number - any telephony number designated as mailbox owner |
| OWNER EMAIL ADDRESS | String | Owner Email Address – email address of the mailbox owner |
| MEMBER MSISDN\_0 | String | Member Msisdn\_0 |
| MEMBER EMAIL ADDRESS\_0 | String | Member email address\_0 |
| MEMBER MSISDN\_1 | String | Member Msisdn\_1 |
| MEMBER EMAIL ADDRESS\_1 | String | Member email address\_1 |
| … |  |  |
| MEMBER MSISDN\_n | String | Member Msisdn\_n |
| MEMBER EMAIL ADDRESS\_n | String | Member email address\_n |

### Query: Authenticate MSISDN – {MSAUTH}

Function Selector: MSAUTH

IDL Function: PerformFunction

This query shall return a success or a failure.

Table 289: Authenticate MSISDN – Attribute List

| Parameter Name | Mandatory/Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Value: ‘MSISDN’ |

Table 290: Attribute Output List

|  |  |  |
| --- | --- | --- |
| Attribute | Format | Description |
| SUCCESS | String | ‘Y’ or ‘N’. |

### Query: Query Credit Limit Details – {QRYCCL}

Function Selector: QRYCCL

IDL Function: PerformFunction

This DRC query shall perform the QueryAccCredit on OCS.

Table 291: Query Credit Limit Details – Attribute List

| Parameter Name | Mandatory/Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Value: ‘MSISDN’ |

Table 292: Attribute Output List

|  |  |  |
| --- | --- | --- |
| Attribute | Format | Description |
| InitialCredit | String | TBC |
| BillCycleCredit | String | TBC |
| TempCreditList | String | TBC |
| SUCCESS | String | ‘Y’ or ‘N’. |

### Query: Query Subscriber Link – {QRYLNK}

Function Selector: QRYLNK

IDL Function: PerformFunction

This query shall return the MSISDN that is linked as an Alternative MSISDN to a Smart Home Subscriber.

Table 293 - Query: Query Subscriber Link - InParameterList

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Values: ‘MSISDN’ |

Table 294 - Query: Query Subscriber link: Output

| **Attribute** | **Format** | **Description** |
| --- | --- | --- |
| LINK DATE | String | Date & Time of link events for a particular prepaid subscriber.  Example 2013-07-02 09:42:20 |
| LINK MSISDN | String | Subscriber’s MSISDN e.g. *0824800019 or* Number Plan appropriate format - see [3.2] |

### Query: Query Bundle Details - Contract– {QBNDTC}

Function Selector: QBNDTC

IDL Function: PerformFunction

This query shall return bundle details of a contract subscriber.

Ref 3.5.9 for Input and Output details.

### Query: Query All Bundle Summary Details - Contract– {QBNASC}

Function Selector: QBNASC

IDL Function: PerformFunction

This query shall return Summary of all bundles of a contract subscriber.

Ref 0 for Input and Output details.

### Query: Query Used Credit {KEYBIL}

Function Selector: KEYBIL

IDL Function: PerformFunction

Country: DRC

Ref: DC006586

This will perform the same query as SMS Keyword ‘Bill’ / ‘R’ (Query Used Credit) as per DRFS-135.

It is only authorised for postpaid and hybrid (mixed) subscribers.

Table 295 - Query: Query Used Credit - InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUBSCRIBER\_ID | String | See Table 2 |
| SUBSCRIBER\_ID\_TYPE | String | Values: ‘MSISDN’, ‘ICCID’ |
| LANGUAGE | String | E / F  (English/French. Default will be French if not supplied) |

Table 296 - Query: Query Used Credit: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| RESPONSE\_TEXT | String | The response text will be the same as the SMS Keyword Response |

### Query: Query International Zones {KEYZON}

Function Selector: KEYZON

IDL Function: PerformFunction

Country: DRC

Ref: DC006656

This will perform the same query as the SMS Keyword ‘Zone’ (Query Zones) as per DRFS-162.

It is authorised for any (postpaid/hybrid/prepaid) subscribers.

Table 297 - Query: Query Zones - InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUBSCRIBER\_ID | String | See Table 2 |
| SUBSCRIBER\_ID\_TYPE | String | Values: ‘MSISDN’, ‘ICCID’ |

Table 298 - Query: Query Zones: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| RESPONSE\_TEXT | String | The response text will be the same as the SMS Keyword Response |

### Query: Query Country in International Zone {KEYZOC}

Function Selector: KEYZOC

IDL Function: PerformFunction

Country: DRC

Ref: DC006656

This will perform the same query as the SMS Keyword ‘Zone A/B/C/D/E/F’ (Query Country in Zone) as per DRFS-162. It is authorised for any (postpaid/hybrid/prepaid) subscribers.

Table 299 - Query: Query Country in Zone – InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUBSCRIBER\_ID | String | See Table 2 |
| SUBSCRIBER\_ID\_TYPE | String | Values: ‘MSISDN’, ‘ICCID’ |
| ZONE | String | Values: A, B, C, D, E, F |

Table 300 - Query: Query Country in Zone: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| RESPONSE\_TEXT | String | The response text will be the same as the SMS Keyword Response |

### Query: Query Tariff for Country in International Zone {KEYZOT}

Function Selector: KEYZOT

IDL Function: PerformFunction

Country: DRC

Ref: DC006656

This will perform the same query as the SMS Keyword ‘Zone Tarif’ which is Query Tariff for Country as per DRFS-162. The country is supplied either as a Name, or as a Dialling Code.

It is authorised for any (postpaid/hybrid/prepaid) subscribers.

Table 301 - Query: Query Zones - InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUBSCRIBER\_ID | String | See Table 2 |
| SUBSCRIBER\_ID\_TYPE | String | Values: ‘MSISDN’, ‘ICCID’ |
| COUNTRY | String | Country name (in English or French) or Dialling Code  e.g. SOUTH AFRICA  e.g. AFRIQUE DU SUD  e.g. 27 |

Table 302 - Query: Query Zones: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| RESPONSE\_TEXT | String | The response text will be the same as the SMS Keyword Response |

### Query: Query PUK for a Subscriber {QRYPUK}

Function Selector: QRYPUK

IDL Function: PerformFunction

Country: TZN

Function Sequence = 53

This will first lookup the ICCID and then call the SRQ method QueryPINPUK.

Table 303 - Query: Query PUK - InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | Values: ‘M, MSISDN, C, ICCID’ |

Table 304 - Query: Query PUK: Output

| **Attribute** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| PIN | String | ‘4587’ |
| PUK | String | ‘25448755’ |

### Query: Query Calls for a Subscriber {QRYCAL}

Function Selector: QRYCAL

IDL Function: PerformFunction

Country: DRC

Ref: DC006031

This will perform the same query as the SMS Keyword ‘APPELS / CALLS’ which will return the Last 5 calls unmasked (DC006029) as per DRFS-136.

Table 305 - Query: Query Calls - InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUBSCRIBER\_ID | String | See Table 2 |
| SUBSCRIBER\_ID\_TYPE | String | Values: ‘MSISDN’ |

Table 306 - Query: Query Calls: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| RESPONSE\_TEXT | String | The response text will be the same as the SMS Keyword Response |

### Query: Query Monthly Usage for a Subscriber {QRYUSE}

Function Selector: QRYUSE

IDL Function: PerformFunction

Country: DRC

Ref: DC006031

This will perform the same query as the SMS Keyword ‘MONTHLY USAGE’ which will return the PUK for a MSISDN as per DRFS-136.

Table 307 - Query: Query Monthly Usage - InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUBSCRIBER\_ID | String | See Table 2 |
| SUBSCRIBER\_ID\_TYPE | String | Values: ‘MSISDN’ |

Table 308 - Query: Query Monthly Usage: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| RESPONSE\_TEXT | String | The response text will be the same as the SMS Keyword Response |

### Query SIM Lock {QRYEIR}

Function Selector: QRYEIR

IDL Function: PerformFunction

This query will perform a viewthrough to the NSNHLR and query the EIR application to determine whether the subscriber’s SIM is locked to a particular IMEI.

Table 309: Query SIM Lock – Attribute List

| Parameter Name | Mandatory/Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Values: ‘MSISDN’, ‘ICCID’, ‘ICAP\_ID’ |

Table 310: Query SIM Lock - Attribute Output List

|  |  |  |
| --- | --- | --- |
| Attribute | Format | Description |
| SIM\_LOCKED\_YN | String | Whether or not the SIM is locked to an IMEI. |

### Query Know Your Customer {QRYKYC}

Function Selector: QRYKYC

IDL Function: PerformFunction

Country: Tanzania

Tanzania banks require subscriber Registration Details. QRYKYC will query the iCAP database.

If the subscriber is active the query will return the following subscriber details:

FIRST NAME, LAST NAME, REGISTRATION STATUS, ID TYPE, ID NUMBER.

If the subscriber is not active (no such subscriber), an error will be returned indicating

“SUBSCRIBER NOT ACTIVE”.

If the subscriber is a MINOR identified by age between 12 – 17 (or MINOR subscriber attribute) then the query will return ‘Query not allowed for Minors’ – sa\_party\_details.registration\_type = ‘MINR’.

The REGISTRATION STATUS will be a decode from the iCAP subscriber REG\_STATUS (FREG/ N) which will indicate “Fully Registered” or “Unregistered” respectively.

The ID TYPE will be the full description text of the Party ID Type (e.g. Passport).

New highspeed origins / organisations / users will be created for the following banks to use QRYKYC:

* Standard Chartered Bank Tanzania
* Maxcom Africa

Highspeed will cater for up to 2000 queries per day.

Table 311: Query Know Your Customer – Attribute List

| Parameter Name | Mandatory/Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Values: ‘MSISDN’, ‘ICCID’, ‘ICAP\_ID’ |

Table 312: Query Know Your Customer – Output attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Format | Description |
| FIRST NAME | String | e.g. James |
| LAST NAME | String | e.g. Oliver |
| REGISTRATION STATUS | String | Possible values:  “Fully Registered”  “Unregistered” |
| ID TYPE | String | e.g. Passport |
| ID NUMBER | String | e.g. 123456 |

### Query: Query Registration Status {QRYREG}

Function Selector: QRYREG

IDL Function: PerformFunction

Country: DRC

Ref: DC006993

This will perform the same query as the SMS Keyword ‘ID’ as per DRFS-065. It is authorised for any prepaid subscriber, to query legal registration status of their own number, or by an Agent that is authorised and is in the configured list of Agents (currently in config of SMS processor).

Table 313 - Query: Query Registration Status – InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | MSISDN of the requesting subscriber e.g. 0815689974 |
| SUB ID TYPE | String | Values: ‘M’ |
| MSISDN | String | MSISDN to be queried – e.g. 0815689974 |

Table 314 - Query: Query Registration Status: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| RESPONSE\_TEXT | String | The response text will be the same as the SMS Keyword Response |

### Query: Query Blacklisting Status {QRYBLK}

Function Selector: QRYBLK

IDL Function: PerformFunction

Country: DRC

Ref: DC006653

This will perform query SDM manager as as per DRFS-0214.

Table 315 - Query: Query Blacklisting Status – InParameterList

| Parameter Name | Mandatory/  Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | IMEI – max length 15 |
| SUB ID TYPE | Mandatory | String | Values: ‘IMEI’ |

Table 316 - Query: Query Blacklisting Status: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| ImeiBlack |  | 1: True 0: False |
| ImeiBlackReason |  | 0000 : None  0010 :  Faulty or Broken  0011 :  Stolen  0012 :  Corrupted IMEI  0014 :  Found  0015 :  Remove from list  0016 :  Duplicated IMEI  0017 :  Impersonated IMEI  0018 :  Repaired  0020 :  Unique IMEI  0021 :  Valid IMEI  0090 :  Other - white  0091 :  New Software Version  0092 :  New Model Name  0093 :  New Factory Approval Code  0094 :  Correction  0099 :  Other - black |
| ImeiBlackReasonDescription |  |  |
| ImeiGrey |  | 1: True 0: False |
| ImeiGreyReason |  | 0000 : None  0010 : Faulty or Broken  0011 : Stolen  0012 : Corrupted IMEI  0014 : Found  0015 : Remove from list  0016 : Duplicated IMEI  0017 : Impersonated IMEI  0018 : Repaired  0020 : Unique IMEI  0021 : Valid IMEI  0090 : Other - white  0091 : New Software Version  0092 : New Model Name  0093 : New Factory Approval Code  0094 : Correction  0099 : Other - black |
| ImeiGreyReasonDescription |  |  |
| EirNrgId |  |  |
| ImsiCheckIMEI |  | 1: True  0: False |
| Reason |  | 0000 : None  0010 : Faulty or Broken  0011 : Stolen  0012 : Corrupted IMEI  0014 : Found  0015 : Remove from list  0016 : Duplicated IMEI  0017 : Impersonated IMEI  0018 : Repaired  0020 : Unique IMEI  0021 : Valid IMEI  0090 : Other - white  0091 : New Software Version  0092 : New Model Name  0093 : New Factory Approval Code  0094 : Correction  0099 : Other - black |
| ReasonDescription |  |  |
| EirCeirInterface |  | 1: True 0: False |
| ImeiSourceOfRequest |  |  |
| ImeiComment |  |  |
| ImeiCeirSync |  | 1: True 0: False |
| eirTimeStamp |  |  |

### Query: Query Local Copy Porting Database {QLCRDB}

Function Selector: QLCRDB

IDL Function: PerformFunction

Country: TZN

This will perform SRQ QueryLCRDBInformation() which uses SA\_VW\_LCRDB as per TZFS-0210.

Table 317 - Query: Query LCRDB – InParameterList

| Parameter Name | Mandatory/  Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| MSISDN | Mandatory | String | The MSISDN to be queried in SA\_PORT\_MSISDNS |

Table 318 - Query: QLCRDB: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| Attributes … | String | … |

### Query: Query MNP Message Events {QMNPME}

Function Selector: QMNPME

IDL Function: PerformFunction

Country: TZN

This will perform SRQ QueryMNPEvents() which uses SA\_VW\_CRDB\_MESSAGES as per MNP spec TZFS-0210.

Table 319 - Query: Query MNP Message Events – InParameterList

| Parameter Name | Mandatory/  Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| MSISDN | Mandatory | String | The MSISDN to be queried in SA\_PORT\_MSISDNS |

Table 320 - Query: QMNPME: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| Attributes … | String | … |

### Query: Viewthru CCS Bundle information All Services Node {CCSBDN}

Function Selector: CCSBDN

IDL Function: PerformFunction

This will query the data bundle balance details on the CCS All Services Node. Sets of data bundle details will be returned. The format of the data will be the same as the QBNDET function (3.5.7) except for the following differences:

* There will be a single Out of Bundle balance for the subscriber, this OOB balance will not be split into different bearer types.
* If there are no bundles the OOB will appear as the only information in the query response.
* The Forfeit information (total forfeit and forfeit month) will no longer appear in the information.

Table 321 - Query: Viewthru CCS Bundle information All Services Node - InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See **Error! Reference source not found.** |
| SUB ID TYPE | String | Values: ‘MSISDN’, ‘ICCID’ |

### Query: Subscriber Reward Details Viewthru {QRYREW}

Function Selector: QRYREW

IDL Function: PeformFunction

This shall return the subscriber’s rewards (used or unused i.e. redeemed or unredeemed), specific to a promotion. The subscriber MISISDN and Subscriber ID (iCAP or Siebel ID) shall be used as the key.

Table 322-Query: Subscriber Reward Details Viewthru - InParameterList

| Parameter Name | Format | Mandatory/Optional | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | String | M | See Table 2 |
| SUB ID TYPE | String | M | MSISDN |
| PROMO DESC | String | M | The Promo Description e.g. “Summer” |

Table 323- Query: Subscriber Reward Details Viewthru- Output

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| DATE ALLOCATED\_n | String | Date the prize was won  “YYYY-MM-DD HH24:MI:SS” |
| REWARD DESCRIPTION\_n | String | Description of the reward |
| EXPIRY DATE\_n | String | The expiry date of the prize  “YYYY-MM-DD HH24:MI:SS” |
| REWARD STATUS\_n | String | The reward status |
| PRIZE WON \_n | String | The prize won |
| CHANNEL\_n | String | The Source channel that the subscriber “played” on |
|  | | |

### Query: Subscriber Prize Details Viewthru {QRYPRI}

Function Selector: QRYPRI

IDL Function: PerformFunction

This shall query the subscribers prizes won, specific to a promotion.

Table 324-Query: Subscriber Prize Details- InParameterList

| Parameter Name | Format | Mandatory/Optional | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | String | M | See Table 2 |
| SUB ID TYPE | String | M | MSISDN |
| PROMO DESC | String | M | The Promo Description e.g. “Summer” |
| ALLOCATED AFTER | String | O | Only the rewards for the subscriber which were allocated on or after the number of days shall be returned e.g. 7 |

Table 325 Query: Subscriber Prize Details

| PARAMETER NAME | Format | Parameter Value Description |
| --- | --- | --- |
| DATE ALLOCATED­\_n | String | Date the reward was given “YYYY-MM-DD HH24:MI:SS” |
| PRIZE DESCRIPTION\_n | String | The description of the prize |
| DATE ACTIVATED\_n | String | The date the prize was redeemed[[3]](#footnote-4) |
| EXPIRY DATE\_n | String | The expiry date of prize  “YYYY-MM-DD HH24:MI:SS” |
| ACTIVATION STATUS\_n | String | GE won’t always know this – blank if no information |

### Query: Subscriber Summary Viewthru: {QSPIWN}

Function Selector: QSPIWN

IDL Function: PerformFunction

This shall query return summary information specific to the Summer 2016 Promotion.

Table 326- Query Subscriber Summary Viewthru

| Parameter Name | Format | Mandatory/Optional | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | String | M | See Table 2 |
| SUB ID TYPE | String | M | MSISDN |

This may not be available for all prize types – GE would not know when the prize was redeemed in the case of lifestyle rewards / devices / etc.

Table 327- Query Subscriber Summary Viewthru

| PARAMETER NAME | Format | Parameter Value Description |
| --- | --- | --- |
| TOTAL REWARDS AVAILABLE TODAY | String | The Rewards (Spins) for today |
| AMOUNT SPENT TODAY | String | Amount spent today |
| TC ACCEPTANCE | String | Indicates whether TCs were accepted |
| TC ACCEPTANCE DATE | String | Date TCs were accepted “YYYY-MM-DD HH24:MI:SS” |
| TOTAL BILL AMOUNT TODAY | String | Total amount spent by subscriber on campaign until current datetime |

### Query: Query Subscriber MOne Mailbox Settings – {QRYMON}

Function Selector: QRYMON

IDL Function: PerformFunction

This function is used to query a subscriber’s Mailbox settings.

Table 328: Query Subscriber MOne Mailbox Settings - In Attribute List

| Attribute Name | Format | Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

Table 329 - Query Subscriber MOne Mailbox Settings - Out Attribute List

| Attribute | Format | Description |
| --- | --- | --- |
| MSISDN | String | The primary MSISDN number linked to this subscriber. |
| SECONDARY MSISDN NUMBER | String | A list of secondary MSISDN numbers linked to this subscriber. |
| MAILBOX PLATFORM | String | Mailbox ID |
| CLASS OF SERVICE | String | Mailbox type |
| VOICE TO TEXT | String | Indicates whether the Voice2Text service is active. |
| EMAIL ADDRESS | String | Indicates the email address associated with the Voice2Text service |
| STATUS | String | The current mailbox status. |
| TUTORIAL COMPLETE YN | String | ‘N’ = New User Tutorial incomplete  ‘Y’ = New User Tutorial complete |
| VOICE DEPOSIT ACTIVE YN | String | ‘N’ = Voicemailbox deposit is inactive; Missed Call Notificaion (MCN) is active  ‘Y’ = Voicemailbox deposit is active; Missed Call Notificaion (MCN) is inactive |

### Query: Query Activation Agent Fraud State {QRYAGF}

Function Selector: QRYAGF

IDL Function: queryFunction

This query shall return the party details and fraud state of the activation agent.

Table 330 – Query: Activation Agent – In AttributeList

| Attribute Name | Format | Mandatory / Optional | Attribute Value Description |
| --- | --- | --- | --- |
| USER ID | String | Mandatory | The USER ID is the USER SEQ in IS\_USERS  . |

Table 331 Query: Activation Agent – Out AttributeList

| **Attribute** | **Format** | **Attribute Value Description** |
| --- | --- | --- |
| tParty | Structure | Refer to tParty |
| FRAUD STATE | String | FRAUD\_FLAG values: ‘Y’ or ‘N’, Default to ‘N’. Obtained from IS\_USERS |

### Query: Query Mobile Money Details KYC {QRYMMT}

Function Select: QRYMMT

IDL Function: PerformFunction

This query is for DRC, shall use manager MMG2 to query details on Mobile Money G2.

Table 332: Query Mobile Money Details KYC - In AttributeList

| Attribute Name | Format | Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

Table 333 : Query Mobile Money Details KYC - Out AttributeList

| **Attribute** | **Format** | **Attribute Value Description** |
| --- | --- | --- |
| KYC PERSONAL DETAILS | String |  |
| KYC ADDRESS DETAILS | String |  |

### Query: Query Max Reg ID Counts {QIDRGL}

Function Select: QIDRGL

IDL Function: PerformFunction

This query is for DRC, Papersoft will query iCAP to check if the max threshold is reached for duplicate IDs and ID Types. Add ID Capping check – refer to DRFS-065 for details.

Table 334: Query Max Reg ID Counts - In AttributeList

| Attribute Name | Format | Description |
| --- | --- | --- |
| ID TYPE | String | Mandatory - Papersoft will validate this field |
| ID NUMBER | String | Mandatory |
| FIRST NAME | String | Mandatory for ID TYPE <> ‘CE’, ‘P’ and ‘UI2’ otherwise optional |
| INITIALS | String | Mandatory for ID TYPE <> ‘CE’, ‘P’ and ‘UI2’ otherwise optional |
| SURNAME | String | Mandatory for ID TYPE <> ‘CE’, ‘P’ and ‘UI2’ otherwise optional |
| DOB | Date | Optional ‘yyyy-mm-dd’ |

Table 335 : Query Max Reg ID Counts - Out AttributeList

| Attribute Name | Format | Description |
| --- | --- | --- |
| ID TYPE | String | Input data echo |
| ID NUMBER | String | Input data echo |
| RESPONSE TEXT | String | “Registration Authorized” |

Table 336 : QIDRGL Responses

|  |  |
| --- | --- |
| **Response Text** | **Condition** |
| Registration Authorized | Max threshold not reached |
| Registration not authorized. Allowed ID Number reuse threshold reached. Reuse count for input ID number '" + idNumber + "' = " + idCount | Max threshold reached |
| Action Failed. Missing values for names | If mandatory Names not supplied for ID TYPE <> ‘CE’, ‘P’ and ‘UI2’ |
| ID has been Blacklisted due to SIMBOX activity | ID exists on the SA\_SIMBOX\_ID\_BLACKLISTINGS table with status of Blacklisted. |

### Query: Viewthru Subscriber Spend Limits {VTHSLS}

Function Selector: VTHSLS

IDL Function: PerformFunction

This will query the subscriber spend limit settings on the subscribers billing platform. . Sets of limits will be returned.

Table 337 - Query: Viewthru Subscriber Spend Limits - InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | Values: ‘MSISDN’ |

Table 338 - Query: Viewthru Subscriber Spend Limits: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| LIMIT TYPE\_n | String | This shall allow for filtering out the list of limits from CCS for the specific limits as indicated below.  Example :  VCLL  MCLL  DLL  VLL  SLL |
| LIMIT DESCRIPTION\_n | String | This shall return the limit type description from CCS.  Example :  VCLL – Voluntary Call Limit  DLL – National Data Limit  VLL-  National Voice Limit  SLL – National SMS Limit |
| AMOUNT\_n | Number | The spend limit value in rands |
| USAGEAMOUNT\_N | Number | The current spend value already incurred by the subscriber in rands. |
| EXHAUSTED ACTION\_N | String | The action to take when the limit is breached. The value in the ParamValue field for the limit shall be converted as follows:  0 = NAL  1 = NOT  NAL = Notify and Lock  NOT = Notify Only |
| LIMIT STATUS\_N | String | The current status of the limit – the value shall be converted as follows:  0 = Active  1 = Denied |
| STARTTIME\_n | Timestamp | The start time of the limit in YYYY-MM-DD HH:MM:SS format |
| ENDTIME\_n | Timestamp | The end time of the limit in YYYY-MM-DD HH:MM:SS format |

Where n is the row number of the spend limit returned

### Query: Roll Over Bundle {QRYROB}

Function Selector: QRYROB

IDL Function: PerformFunction

This query shall return the bundles eligible for Roll Over for a subscriber. Multiple bundles may be returned by this query which is what the n indicated below.

Table 339 - Query: Roll Over Bundle- InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | Values: ‘MSISDN’ |

Table 340 - Query: Rollover Bundle: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| SERVICE\_n | String | SO\_ID CCS Offering ID for Postpaid subscribers E.g. 65124  or Package ID E.g. SPIncData10GB |
| INSTANCE\_n | String | The Instance ID of the bundle. This is for postpaid subscribers. E.g. 701000000000403827  For prepaid and hybrid susbcribers this needs to be populated by the SERVICE value (Package ID) |
| DESCRIPTION\_n | String | The description of the service E.g. Facebook 300MB for 7 days |
| REMAINING AMOUNT\_n | String | The remaining amount of data in bytes E.g. 100 MB |
| START DATE\_n | String | In format YYYY-MM-DD HH24:MI:SS |
| OLD EXPIRY DATE\_n | String | The current expiry date of the bundle - in format YYYY-MM-DD HH24:MI:SS |
| EXPIRY DATE\_n | String | The current expiry date of the bundle + 7 days - in format YYYY-MM-DD HH24:MI:SS |
| DAYS\_n | String | The number of days remaining on a data bundle. |
| TID PREFIX\_n | String | The prefix of the transaction ID. Example: 239 |
| COST\_n | String | The cost shall be calculated based on the size of the remaining bundle in rands/cents. E.g 20.00 |

### Query: Query Subscriber Transfer List {QRYSTL}

Function Selector: QRYSTL

IDL Function: PerformFunction

This query shall return the recipient(s) list of linked MSISDN for data transfer.

Table 341 Query Subscriber Transfer List - InParameterList

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | ‘MSISDN’ |

Table 342 Query Subscriber Transfer List: Output

| **Parameter Name** | Format | Description |
| --- | --- | --- |
| LINK DATE | Timestamp | Date & Time of link for the specific data transfer MSISDN  Example 2018-07-02 09:42:20 |
| RECIPIENT MSISDN | String | Subscriber’s MSISDN e.g. 0824800019 – Return all MSISDN’s linked to the sharing subscriber for data transfer |
| DATE REMOVED | Timestamp | The date when the recipient MSISDN was removed from the donor MSISDN list Example 2018-07-02 09:42:20 |

### Query: Transfer Bundles {QRYTBN}

Function Selector: QRYTBN

IDL Function: PerformFunction

This query shall return the bundles eligible for Data Transfer for a subscriber. Multiple bundles may be returned by this query which is what the n is indicating below.

Table 343: Query: Data Transfer – InParameterList

| Parameter Name | Format | Parameter Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | Values: ‘MSISDN’ |

Table 344: Query: Data Transfer – Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| SERVICE\_n | String | The service offering ID E.g. FB2 or Package ID E.g. SPIncData10GB |
| DESCRIPTION\_n | String | The description of the service E.g. Facebook 300MB for 7 days |
| REMAINING AMOUNT\_n | String | The remaining amount of data in bytes E.g. 104857600 |
| START DATE\_n | String | In YYYY-MM-DD format |
| EXPIRY DATE\_n | String | The current expiry date of the bundle - in YYYY-MM-DD format |
| INSTANCE\_n | String | The Instance ID of the bundle. This is for postpaid subscribers. E.g. 701000000000403827  For prepaid and hybrid susbcribers this needs to be populated by the SERVICE value (Package ID) |
| TID PREFIX\_n | String | The prefix of the transaction ID. Example: 246 |
| VALIDITY\_n | String | The bundle duration. Eg. ‘Hourly’, ‘Daily’, ‘Monthly’, ‘Weekend’ |

### Query: Viewthru Data Transfer History {VTHTBN}

Function Selector: VTHTBN

IDL Function: PerformFunction

This will query the data transfer history from the database table SA\_SUB\_DATA\_TRANSFER\_HISTORY.

Table 345: Viewthru Data Transfer History - InParameterList

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| SUB ID | String | See Table 346 |
| SUB ID TYPE | String | Values: ‘MSISDN’ in 15 digit format |

Table 347: Viewthru Data Transfer History: Output

| **Parameter Name** | **Format** | **Parameter Value Description** |
| --- | --- | --- |
| TRANSACTION\_DT\_n | String | The date and time when the bundle was transferred. |
| TRANSACTION\_ID\_n | String | Transaction ID generated. |
| MSISDN\_n | String | MSISDN of the sharing subscriber. |
| RECIPIENT\_MSISDN­\_n | String | MSISDN of the receiving subscriber. |
| BUNDLE\_ID\_n | String | Bundle ID to transfer from |
| TRANSFER\_BUNDLE\_SIZE\_n | String | Transfer Bundle size. |
| COST\_n | String | The cost of Data Bundle transfer. |
| TRANSACTION\_STATUS\_n | String | Either “S” – Success  “F” – Failed  “B” - Busy |
| INSTANCE\_ID\_n | String | Instance ID shall be applicable to all payment methods |
| ERROR\_MESSAGE\_n | String | If the transaction failed, then the error message received from EFS should appear here. |
| COMPLETED\_DT\_n | String | The date the transaction was completed with a response. |

### Query: Query Data Transfer Cost {QRYDTC}

Function Selector: QRYDTC

IDL Function: PerformFunction

This function will query the available transfer bundle id's, sizes and costs available for transfer for a given bundle and remaining bundle size of the selected bundle.  A list of bundle sizes, package id’s/ soids, bundle cost shall be returned.

Table 348: Query Data Transfer Cost - InParameterList

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Format** | **Parameter Value Description** |
| BUNDLE CODE | String | The data bundle ID selected by the subscriber to transfer from E.g. TrnsSUMYT |
| BUNDLE SIZE | String | The remaining bundle size in the selected bundle in Bytes. |
| BUNDLE VALIDITY | String | The bundle duration. Eg. ‘Hourly’, ‘Daily’, ‘Monthly’, ‘Weekend’ |

Table 349: Query Data Transfer Cost: Output

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Format** | **Parameter Value Description** |
| BUNDLE CODE | String | The Bundle code that was selected to transfer from |
| BUNDLE SIZE | String | The remaining bundle size in the BUNDLE CODE |
| TRANSFER SERVICE­\_n | String | The service offering ID E.g. TDB or Package ID E.g. SPIncData10GB |
| COST\_n | number | Cost related to each bundle size in Rands E.g. 5, 10, 15 |
| BUNDLE SIZE\_n | Number | The transfer bundle size in bytes |
| TRANSFER PERIOD\_n | String | The period for which the transferred bundle will be valid after transfer  For Hourly bundles we return- ‘1 hour’  For Daily bundles we return- - ‘1 day’  For Weekend bundles we return- – ‘2 days’  For Monthly bundles we return- – ‘7 days’ |

Where n runs from 1 to n for the number of transfer bundles returned.

Response Example:

| BUNDLE CODE | . TrnsSUMYT |
| --- | --- |
| BUNDLE SIZE | 104857600 |
| TRANSFER SERVICE\_1 | TDB1 |
| COST\_1 | 5 |
| BUNDLE SIZE\_1 | 52428800 |
| TRANSFER SERVICE\_2 | TDB2 |
| COST\_2 | 10 |
| BUNDLE SIZE\_2 | 104857600 |
| TRANSFER SERVICE\_3 | TDB3 |
| COST\_3 | 30 |
| BUNDLE SIZE\_3 | 262144000 |
| TRANSFER SERVICE\_4 | TDB4 |
| COST\_4 | 10 |
| BUNDLE SIZE\_4 | 524288000 |

### Query: Subscriber KYC {QYBKYC}

IDL Function: PerformFunction

Function Selector: QYBKYC

This query returns subscriber KYC information for the L-role, from the new view sa\_vw\_kyc

*Table 350 – Query: Subscriber KYC – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN, ICCID (MSISDN is also used for pseudonumber) |

*Table 351 – Query: Subscriber KYC Information – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| STATUS | String | The registration status of the subscriber. The possible values are ‘NONE’, or ‘REGISTERED’ . |
| BIOMETRIC REGISTERED | String | SA\_PARTY\_DETAILS BIOMETRICALLY\_VERIFIED\_YN |
| NIN | String | Returns National Identity Number if the subscriber registered with NON.  Note if the subscriber did not register with a NIN then this field will be blank. |
| DOB | String | From party details |
| FIRST NAME | String | From party details |
| LAST NAME | String | From party details |
| MIDDLE NAME | String | From party details |
| LANGUAGE | String | Will return subscriber attribute ‘LAN’ if available – this will default to ‘SWA’ if there is no subscriber attribute. |

### Query: User Agent MSISDN Authentication {AGTAUT}

IDL Function: QueryFunction

Function Selector: AGTAUT

This query verifies the MSISDN supplied:

1. Verify MSISDN is related to an active agent, it yes do no fail request but proceed to next validation
2. Verify MSISDN is active subscriber

*Table 352 – Query:* User Agent MSISDN Authentication *– In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| AGENT MSISDN | String | See Table 2 |

*Table 353 – Query:* User Agent MSISDN Authentication *– Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| ACTIVE AGENT YN | String | YES – If verification at step 1 evaluated to TRUE  NO – If verification at step 1 evaluated to FALSE |
| ACTIVE SUBSCRIBER YN | String | YES – If verification at step 2 evaluated to TRUE  NO – If verification at step 2 evaluated to FALSE |

### Query: Query KYC Info {QRYKIN}

IDL Function: QueryFunction

Function Selector: QRYKIN

This query will be used by a customer who would like to update his KYC on the self-service portal. It is expected that ICAP exposes a query function to return all party information (details, address, ids, contact, etc.) as presented on the ICAP Front-end

*Table 354 – Query: Query KYC Information – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | MSISDN in 10 or 12 digit format |
| SUB ID TYPE | String(6) | M for MSISDN |
| ROLE TYPE | String(1) | Role type may be ‘L’, ‘S’ or ‘A’. |

*Table 355 – Query: Query KYC Information – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| FIRST NAME | String | From Party Details Role requested |
| INITIALS | String |  |
| SURNAME | String |  |
| DOB | String |  |
| partyDetails | Structure | See Table 11 for details. |

### Query: Query Subscriber SRs {QRYSRS}

IDL Function: PerformFunction

Function Selector: QRYSRS

This query will be call the SRM method findSRSbyCriteria.

The query will accept the following Input parameters:

* MSISDN – when supplied, a list of SR REF NO’s created for this MSISDN will be returned
* EMAIL ADDRESS – when supplied, a list of SR REF NO’s created for this email address will be returned
* SR REF NO – when supplied, the following attributes for the SR will be returned:
  + Group Type
  + Fault Type
  + Status
  + Description
  + Date Logged
  + SLA Due Date

*Table 356 – Query: Query KYC Information – In Attribute List*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| MSISDN | String | MSISDN in 10 or 12 digit format |
| EMAIL ADDRESS | String | Email address will be validated to contain ‘@’. |
| SR REF NO | String | GEN KEY. |
| MAX ROWS | Number | Optional will default to 1000 if not supplied. |

*Table 357 – Query: Query KYC Information – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SR REF NO\_n | String | List of SR Ref Nos created for the subscriber. |
| GROUP TYPE | String | The group type of the SR if input is SR REF NO |
| FAULT TYPE | String | The fault type of the SR if input is SR REF NO |
| STATUS | String | Status of the SR if input is SR REF NO |
| DESCRIPTION | String | Description of the SR if input is SR REF NO |
| CREATED DT | DATE | Date and Time SR created if input is SR REF NO |
| SLA DUE DATE | DATE | Date and Time SR will be out of SLA if input is SR REF NO |

When MSISDN supplied – use iCAPID and use bs.srm.impl.Implementation.findSRHistory() – use be MO FE to return subscriber SR History.

For all other criteria continue to use bs.srm.impl.Implementation.findSRsByCriteria().

### Query: Query Loan Eligibilty Status {QRYSLN}

IDL Function: PerformFunction

Function Selector: QRYSLN

This query will call the MIS query QRYSLN.

*Table 358 – Query: Query Loan Eligibity Status – In Attribute List*

| Attribute Name | Format | Mandatory | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | String | Mandatory | Please refer to *Table 2* |
| SUB ID TYPE | String | Mandatory | M for MSISDN |
| SELF HELP PIN | String | Optional | If self-help PIN is provided then it shall be authenticated as per existing process. |

*Table 359 – Query: Query Loan Eligibity Status – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| QUALIFIED YN | String | Y (Qualified) or N (Not Qualified) |

### Query: Query Call Sponsor Consumption {QRYCSC}

IDL Function: PerformFunction

Function Selector: QRYCSC

This query will call the MIS query QRYCSC.

Table 360: Query: Query Call Sponsor Consumption – In Attribute List

| Attribute Name | Format | Mandatory | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | String | Mandatory | MSISDN in 10 digits format e.g. 0814443473. |
| SUB ID TYPE | String | Mandatory | M for MSISDN |
| SELF HELP PIN | String | Optional | If self-help PIN is provided then it shall be authenticated as per existing process. |

| Attribute Name\_1 | Format | Description |
| --- | --- | --- |
| For Parent MSISDN, for each BalanceID found in query there will be output for each MSISDN in the query for the BalanceID.  For Child MSISDN, just the BalanceID, Activation Date and Child MSISDN usage will be returned. | | |
| PB\_BALANCEID\_1 | String | BalanceID |
| PB\_ACTIVATION\_DATE\_1 | String |  |
| PB\_EXPIRY\_DATE\_1 | String |  |
| PB\_MSISDN\_PARENT\_1 | String | Subscriber’s Child MSISDN in Number Plan appropriate format - see [3.2] |
| PB\_MSISDN\_CHILD\_1 | String |  |
| USAGE\_TO\_DATE\_1 | String | Data Consumption for MSISDN\_1 |
| … \_N |  |  |

Table 361: Query: Query Call Sponsor Consumption – Out AttributeList

Notes:

* Highspeed to return both XML response and SMS in language of the subscriber, if not available will be in French.
* A sms per BalanceID will be sent to requesting MSISDN.
* The Parent shall see the consumption of all the children and if the msisdn of the querying subscriber is the child, than only the consumption of the child shall be retrieved

Please refer to [25] DRFS-0249 for calls made to OCS and SMS text messages to be sent to the calling MSISDN.

XML Response:

SQL> SELECT

  2    pb\_balanceid,

  3  pb\_activation\_date,

  4    'Expiry Date from OCS' pb\_expity\_date,

  5  '0'||substr(pb\_msisdn\_parent,4,9) pb\_msisdn\_parent,

  6  '0'||substr(pb\_msisdn\_child,4,9) pb\_msisdn\_child,

  7  CASE  WHEN pb\_usage\_to\_date\_bytes / (1024 \* 1024 \* 1024) < 1 THEN

  8         ROUND(pb\_usage\_to\_date\_bytes / (1024 \* 1024), 4) || ' MB'

  9  ELSE

10         ROUND(pb\_usage\_to\_date\_bytes / (1024 \* 1024 \* 1024), 0) || ' GB' || ROUND(pb\_usage\_to\_date\_bytes / (1024 \* 1024), 4) || ' MB'

11  END usage\_to\_date

12  FROM  ODS.ZZ\_SNP\_PB\_PAPA\_BONHEUR

13  WHERE pb\_msisdn\_parent = '243829815972'

14  AND pb\_balanceid in ('1090852410503','1090860496423')

15  ORDER BY pb\_activation\_date desc;

PB\_BALANCEID         PB\_ACTIVATION\_DATE PB\_EXPITY\_DATE       PB\_MSISDN\_PARENT                      PB\_MSISDN\_CHILD                       USAGE\_TO\_DATE

-------------------- ------------------ -------------------- ------------------------------------- ------------------------------------- ---------------

1090852410503        2021/01/14 20:13:1 Expiry Date from OCS 0829815972                            0814989788                            .1514 MB

1090860496423        2021/01/14 20:13:1 Expiry Date from OCS 0829815972                            0828193102                            79.8723 MB

1090860496423        2021/01/14 20:13:1 Expiry Date from OCS 0829815972                            0829815972                            116.0051 MB

1090860496423        2020/12/29 19:00:3 Expiry Date from OCS 0829815972                            0829815972                            116.0051 MB

1090852410503        2020/12/29 19:00:3 Expiry Date from OCS 0829815972                            0814989788                            .1514 MB

1090860496423        2020/12/29 19:00:3 Expiry Date from OCS 0829815972                            0828193102                            79.8723 MB

6 rows selected

SMS Message Response:

SQL> SELECT

  2    pb\_balanceid ignore\_this,

  3    pb\_activation\_date ignore\_this\_2,

  4    'Expiry Date from OCS' pb\_expity\_date,

  5  -- '0'||substr(pb\_msisdn\_parent,4,9) pb\_msisdn\_parent,

  6  '0'||substr(pb\_msisdn\_child,4,9) pb\_msisdn\_child,

  7  CASE  WHEN pb\_usage\_to\_date\_bytes / (1024 \* 1024 \* 1024) < 1 THEN

  8         ROUND(pb\_usage\_to\_date\_bytes / (1024 \* 1024), 4) || ' MB'

  9  ELSE

10         ROUND(pb\_usage\_to\_date\_bytes / (1024 \* 1024 \* 1024), 0) || ' GB' || ROUND(pb\_usage\_to\_date\_bytes / (1024 \* 1024), 4) || ' MB'

11  END usage\_to\_date

12  FROM  ODS.ZZ\_SNP\_PB\_PAPA\_BONHEUR

13  WHERE pb\_msisdn\_parent = '243829815972'

14  AND pb\_balanceid in ('1090852410503','1090860496423')

15  ORDER BY pb\_balanceid desc;

IGNORE\_THIS          IGNORE\_THIS\_2 PB\_EXPITY\_DATE       PB\_MSISDN\_CHILD                       USAGE\_TO\_DATE

-------------------- ------------- -------------------- ------------------------------------- ------------------

*SMS message 1*

1090860496423        2020/12/29 19 Expiry Date from OCS 0828193102                            79.8723 MB

1090860496423        2020/12/29 19 Expiry Date from OCS 0829815972                            116.0051 MB

1090860496423        2021/01/14 20 Expiry Date from OCS 0829815972                            116.0051 MB

1090860496423        2021/01/14 20 Expiry Date from OCS 0828193102                            79.8723 MB

*SMS message 2*

1090852410503        2021/01/14 20 Expiry Date from OCS 0814989788                            .1514 MB

1090852410503        2020/12/29 19 Expiry Date from OCS 0814989788                            .1514 MB

### Query: Norton Subscription Query {QRYNOR}

IDL Function: QueryFunction

Function Selector: QRYNOR

This query will query the ICAP database for the subscribers Norton information .

*Table 362 – Query: Norton Subscription Query – In Attribute List*

| Attribute Name | Format | Mandatory | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | String | Mandatory | Please refer to *Table 2* |
| SUB ID TYPE | String | Mandatory | M for MSISDN |

*Table 363 – Query: Norton Subscription Query – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| MSISDN | String | MSISDN in 10 or 15 digit format |
| PRODUCT\_ID\_n | String | Product ID of particular Norton Offering |
| LICENSE\_KEY\_n | String | Unique License key for erach Norton Offering |
| URL\_n | String | Link to Norton Product |
| ACTIVATION\_DATE\_n | Date | This is the activation date of the service |

### Query: Query Biometric Prepaid Subscribers {QRYBPS}

IDL Function: PerformFunction

Function Selector: QRYBPS

This query will query the iCAP database for a list of active ~~prepaid~~ subscribers that were Biometrically Registered with IDs of type National ID (N) or Passport (P).

*Table 364 – Query: Query Biometric Prepaid Subscribers – In Attribute List*

| Attribute Name | Format | Mandatory | Attribute Value Description |
| --- | --- | --- | --- |
| ID | String | Mandatory | National ID number or Passport number |
| ID TYPE | String | Mandatory | N or P allowed |
| REGISTRATION TYPE | String | Optional | If not provided the query will return all registration types.  Allowed values – See TZFS-0244 – Table 9, TYPE. |

*Table 365 – Query: Query Biometric Prepaid Subscribers – Out AttributeList*

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| MSISDN\_n | String | MSISDN in 10 digit format |
| TCRA\_STATUS\_n | String | PRIMARY / SECONDARY / Blank (Null) |
| REGISTRATION\_TYPE\_n | String | e.g. INDI, DEFA etc. |

### Query Know Your Minor Customer {QRYKYM}

Function Selector: QRYKYM

IDL Function: PerformFunction

Country: Tanzania

MW require subscriber Registration Details. QRYKYM will query the iCAP database.

If the subscriber is active the query will return the following subscriber details:

FIRST NAME, LAST NAME, REGISTRATION STATUS, ID TYPE, ID NUMBER.

If the subscriber is not active (no such subscriber), an error will be returned indicating

“SUBSCRIBER NOT ACTIVE”.

If the subscriber is not a MINOR identified by age 18 or older. (or MINOR subscriber attribute) then the query will return ‘Query only valid for Minors’ - sa\_party\_details.registration\_type = ‘MINR’.

The REGISTRATION STATUS will be a decode from the iCAP subscriber REG\_STATUS (FREG/ N) which will indicate “Fully Registered” or “Unregistered” respectively.

The ID TYPE will be the full description text of the Party ID Type (e.g. Passport).

Table 366: Query Know Your Customer – Attribute List

| Parameter Name | Mandatory/Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Values: ‘MSISDN’, ‘ICCID’, ‘ICAP\_ID’ |

Table 367: Query Know Your Customer – Output attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Format | Description |
| FIRST NAME | String | e.g. James |
| LAST NAME | String | e.g. Oliver |
| REGISTRATION STATUS | String | Possible values:  “Fully Registered”,  “Unregistered” |
| ID TYPE | String | e.g. Passport |
| ID NUMBER | String | e.g. 123456 |

## Provisioning Functions

The standard naming convention for parameters will be CAPITALS separated by SPACES. Existing parameter names that use underscore will be retained for backward compatibility.

**Note: MSIN is not a valid SUB ID TYPE on the High Speed Interface.**

The following Provisioning Request functions are available in the High Speed Interface.

Table 368 : Provisioning Functions available in the High Speed Interface.

| Function Selector ID | Function Selector Description | Subscribers Applicable to: Contract/Prepaid/Hybrid |
| --- | --- | --- |
| RCRMBX | Recreate Mailbox to the current mailbox setting for the offer the subscriber is on. | Contract, Prepaid & Hybrid |
| MOVMBX | Move Mailbox from one platform to another | Contract,Prepaid & Hybrid |
| SETCFN | Reset the Call Forwarding setting for the subscriber | Contract, Prepaid & Hybrid |
| CANCFD | Cancel Call Forwarding setting for the subscriber | Contract, Prepaid & Hybrid |
| RSTPWD | Reset the Mailbox PIN | Contract, Prepaid & Hybrid |
| UPGMBX | Update the subscriber’s mailbox to Vodamail Executive. | Contract |
| LCKSTN | Lock a phone: Stolen Phone | Contract, Prepaid & Hybrid |
| UNLSTN | Unlock a Stolen Phone | Contract, Prepaid & Hybrid |
| ADGPRS | Add the GPRS service | Prepaid & Hybrid |
| ADDMCC | Add Multiparty Conference Call Service | Contract, Prepaid & Hybrid |
| DELMCC | Remove Multiparty Conference Call Service | Contract, Prepaid & Hybrid |
| MNGCSS | Create a CallSponsor Link (RSA) | Contract |
| DELCSS | Delete a Call Sponsor Link (RSA) | Contract, Prepaid |
| CSACRJ | Accept or Reject a CallSponsor Link (RSA) | Prepaid |
| ADDCSP | Create a CallSponsor Link (DRC) | Prepaid |
| REMCSP | Delete a Call Sponsor Link (DRC) | Prepaid |
| ADDATA | Add a Data service to the subscriber | Prepaid |
| RMDATA | Remove a Data Service from a subscriber | Prepaid |
| ITSTMT | Request an Itemised Statement | Prepaid & Hybrid |
| SIMPRV | Provision a SIM card | Contract, Prepaid & Hybrid |
| SIMDEL | Delete a SIM Card | Contract, Prepaid & Hybrid |
| SPNREG | Register subscriber for specific needs | Contract, Prepaid & Hybrid |
| SPNCAN | Cancel specific needs registration for a subscriber | Contract, Prepaid & Hybrid |
| UPDLAN | Update a Subscriber’s Language Preference | Contract, Prepaid & Hybrid |
| ADDAPN | Add an APN to the subscriber’s services | Prepaid |
| OTASET | Send OTA Settings to a handset | Contract, Prepaid & Hybrid |
| CLSCHG | Change Prepaid Subscriber Class | Prepaid Only |
| ADDFAX | Add a Fax service to the subscriber | Prepaid Only |
| REMFAX | Remove a Fax service from a subscriber | Prepaid Only |
| REGSUB | Register Subscriber Information | Contract, Prepaid & Hybrid |
| ADDATM | Add a Data Service (Multi or Single Numbering) | Contract, Prepaid |
| ADDVID | Add Video Service | Prepaid |
| REMVID | Remove Video Service | Prepaid |
| ADDARE | Add Auto Recharge Service | Prepaid (Excluding Starter Packs) & Hybrid |
| REMARE | Remove Auto Recharge Service | Prepaid (Excluding Starter Packs) & Hybrid |
| ACRJRG | Accept/Reject Subscriber registration information | Contract, Prepaid & Hybrid |
| CSRMSR | Create Service Request Management Service Request | Contract, Prepaid & Hybrid |
| LCKADM | Lock a Phone: Admin lock | Contract, Prepaid & Hybrid |
| UNLADM | Unlock a Phone: Admin lock | Contract, Prepaid & Hybrid |
| MIGPRD | Migrate PP product | Prepaid |
| ADDTFX | Add Data and Fax to Subscriber | Prepaid  (+ Contract for DRC Only) |
| CHGPPR | Change PIN/PUK Restriction flag | Contract, Prepaid & Hybrid |
| CMBXPW | Change Telephony Mailbox Password | Contract, Prepaid & Hybrid |
| SETFAF | Set Friends and Family Service MSISDN | Contract, Hybrid, Prepaid |
| DEAFAF | Deactivate Friends and Family Service | Contract, Hybrid, Prepaid |
| BARSMO | Bar SMS-MO Service | Prepaid |
| ADDEML | Add Vodacom Email Service | Contract, Prepaid, Hybrid |
| SUSEML | Suspend Vodacom Email Service | Contract, Prepaid, Hybrid |
| UNSEML | Unsuspend Vodacom Email Service | Contract, Prepaid, Hybrid |
| DELEML | Delete Vodacom Email Service | Contract, Prepaid, Hybrid |
| ACTPPS | Activate MSISDNless Starter pack | Prepaid |
| ADDRBT | Add Ringback Tones Service | Contract, Prepaid, Hybrid |
| ADDWIG | Add Wireless Internet Gateway | Contract, Prepaid, Hybrid |
| REMRBT | Remove Ringback Tones Service | Contract, Prepaid, Hybrid |
| REGLGL | Add Subscriber Registration Information – Legal Requirement | Prepaid |
| DRGSUB | Deregister Subscriber Registration Information – Legal Requirement | Prepaid |
| REDPLP | Redeem Prepaid Loyalty points | Prepaid |
| REGPLS | Register/Update subscriber for Prepaid Loyalty | Prepaid |
| REDELP | Redeem Loyalty Points (Tanzania) | Contract, Prepaid, Hybrid |
| MTOVPR | Migrate to the Travel Saver Roaming service | Contract, Prepaid, Hybrid |
| MFRVPR | Migrate from the Travel Saver Roaming service | Contract, Prepaid, Hybrid |
| INSCLL | Insert Call Limit Lock parameters | Contract |
| UPDCLV | Update Call Limit Lock parameters. | Contract |
| DELVCL | Delete Volunteer Amount Call Limit Lock | Contract |
| INSTCL | Insert Temp Call Limit Lock | Contract |
| DELCTL | Delete Temp Call Limit Lock. | Contract |
| TRFOG | Provision Tariff Toggle | Prepaid |
| RESMSI | Reserve MSISDN for Prepaid Subscriber | Prepaid |
| ADDNOT | Activate Notifications | Contract, Hybrid |
| ADDCTB | Add Content Block Attribute | Contract, Prepaid, Hybrid |
| REMCTB | Remove Content Block Attribute | Contract, Prepaid, Hybrid |
| REMNOT | Deactivate Notifications | Contract, Hybrid |
| SETNOT | Set Destination MSISDN | Contract, Hybrid |
| ADDNCB | Add Notification For Content Billed | Contract, Prepaid, Hybrid |
| REMNCB | Remove Notification For Content Billed | Contract, Prepaid, Hybrid |
| ADDHSD | Add HSDPA 3.6 Mbps Service | Contract, Prepaid, Hybrid |
| DELHSD | Remove HSDPA 3.6 Mbps Service | Contract, Prepaid, Hybrid |
| ACTHSD | Activate HSDPA 3.6 Mbps Service | Prepaid |
| ADDSVC | Add SpinVox Service | Contract |
| REMSVC | Remove SpinVox Service | Contract |
| SWPPPS | Sim Swap To A Starter Pack | Prepaid |
| ADDVLP | Add VLP service to subscirber’s profile | Contract and Prepaid |
| REMDVLP | Remove VLP service from subscirber’s profile | Contract and Prepaid |
| CLLADV | Add Voluntary Call Limit Lock Setting | Contract and Hybrid |
| CLLUPV | Update Voluntary Call Limit Lock Setting | Contract and Hybrid |
| CLLADLV | Delete Voluntary Call Limit Lock Setting | Contract and Hybrid |
| VALPOO | Validate Proof of Ownership (TZN) | Prepaid |
| ADADSL | Add Broadband ADSL ad-hoc bundles | Broadband ADSL |
| ADDUNL | Add Unlimited data (Bomba) | All |
| ADDBUN | Add Bundle Adhoc Data | All |
| ADDSMS | Add SMS Bundle | All |
| SNDPWR | Send Password Reminder | All |
| VCHRCH | Recharge Voucher | Prepaid (DRC) |
| ADDPBP | Add Prepaid Billing Package | TZN |
| DELPBP | Delete Prepaid Billing Package | TZN |
| ADDBSS | Add Bulk SMS Service | DRC Prepaid only |
| ADJULP | Adjust loyalty points | TZN |
| ADDVBN | Add Voice Bundle | TZN, DRC |
| DELVBN | Delete Voice Bundle | TZN |
| REQDMX | Delete Mailbox | Contract, Prepaid & Hybrid |
| ADDMDS | Add DSTV mobile bundle | Contract, Prepaid & Hybrid |
| CREBUR | Add Broadband Usage Reporting | Contract |
| DELBUR | Remove Broadband Usage Reporting | Contract |
| GNEMNT | Generate Email Data Usage Notification | Topup |
| ADDSBA | Add heritage subscriber attribute | TZN |
| SETNTF | Set subscriber Notification Preferences | Contract, Prepaid & Hybrid |
| ADWBUN | Add Bundle Adhoc Data (synchronous) | DRC |
| ADWSMS | Add SMS Bundle (synchronous) | DRC |
| ADWVBN | Add Voice Bundle (synchronous) | DRC |
| ACWBLB | Add Blackberry Bundle (synchronous) | DRC |
| RWWM2M | Wimax M2M Renewal (synchronous) | DRC |
| CREMBX | Create Mailbox | DRC |
| MODMBX | Modify Mailbox | DRC |
| DELMBX | Delete Mailbox | DRC |
| SETLNK | Set Subscriber Link | All |
| CREMMS | Register Customer on G2 | DRC |
| UPGMMT | Update MPESA Account to Premium | DRC |

All requests are processed asynchronously. If the request has an error in the logging of the request due to invalid input data or a business rule violation an exception will be returned with an appropriate error indicating the cause of the error.

Currently a business rule is configured that if the subscriber is locked for incoming calls or full locked, it will not be permitted to recreate a mailbox for the subscriber.

### Default Input Parameters

All the requests have optional and mandatory parameters that add additional information to the request, or indicate that a response message should be generated for the action requested. The parameters are listed below for brevity, and apply to all the request types unless otherwise indicated. . Two new parameters ‘Revenue Orig ID’ and ‘Channel ID’ shall be added to all requests. These two parameters shall perform a similar role as the existing Source ID and Origin ID. Channel ID is an indicator of the channel which is making the request, eg APP-001, USS-001. Revenue Orig ID is a campaign specific numeric identifier, eg 1000006 for Double your Data. Refer to *Table 740* and *Table 741* for possible values.

Table 369 : Default Input Parameters

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| ORIGIN ID | Mandatory | String(2) | The Origin ID as supplied by Vodacom. |
| EXTERNAL REF | Optional | String(15) | Maximum 15 characters – unique to the function type. |
| SEND SMS | Optional | String(1) | ‘Y’ or ‘N’ – send SMS when request completed successfully. Default = ‘N’. |
| LANGUAGE | Optional | String(3) | 3-character string of the language the sms must be sent in. Default = ‘ENG’ (The languages available for use should now be determined by a lookup as defined in section 0.  Table 716) |
| IP ADDRESS | Optional | String(15) | The IP Address of the originating system calling the provisioning request. Validation on iCAP shall confirm that a valid IP address is supplied i.e. [www.xxx.yyy.zzz](http://www.xxx.yyy.zzz) where www/xxx/yyy/zzz is a number 0-255 and will be logged to audit trails for use by the external system. |
| CHANNEL ID | Optional | String(24) | The Channnel ID is an indicator of the channel which is making the request, e.g. USS-001. Refer to Table 740 for possible values. The Channel ID will be supplied as a 7-digit alphanumeric code. |
| REVENUE ORIG ID | Optional | Number (20) | The Revenue Orig ID is a campaign specific numeric identifier e.g 1000006 for Double your Data. Refer to Table 741 for possible values. The Revenue Orig ID will be supplied as a 7-digit numeric code. |

### Output Parameters

The provisioning requests return the same values for all requests successfully logged in the iCAP system. The Table 370 lists the standard output attribute names. These are listed here, and not with each request type for brevity. Additional returned attributes would be listed where applicable for the relevant request type.

Table 370 : Request Standard Output Attributes

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Format** | **Description** |
| REQUEST SEQ | Number | Generated ID for this request. |
| REQUEST ID | Number | External ID for this Request. |
| SU\_SEQ | Number | The subscriber sequence the request was performed on. |
| EXECUTION TP | String | ‘ASYNC\_DEPEND’ or ‘ASYNC\_CONFIG’. |

### Provision: Recreate Mailbox {RCRMBX}

Function Selector: RCRMBX

IDL Function: PerformFunction

This function will recreate a subscriber’s mailbox or create a mailbox for a subscriber that has never had a mailbox. The subscriber’s call forwarding settings will be reset to the voice mailbox.

This function does not depend on the subscriber having had a mailbox previously. If the subscriber previously had a mailbox that was subsequently deleted, the mailbox that gets created for the subscriber will be of the same type as the last mailbox that the subscriber had. Prepaid mailboxes get deleted after a period of inactivity, which is why a subscriber might not have an active mailbox. If a subscriber has never had a mailbox (e.g. subscriber is not yet active) or if the subscriber have an active mailbox, an error will be raised.

Table 371 – Provision: Recreate mailbox – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Reset Mailbox PIN {RSTPWD}

Function Selector: RSTPWD

IDL Function: PerformFunction

This function will reset the subscriber’s mailbox PIN. If the subscriber does not have a mailbox, there is little value in executing a function to set the reset the mailbox PIN. ICAP will instead implement the logic to create a mailbox if the subscriber does not have one. This will automatically reset the mailbox PIN. Or else, a reset mailbox PIN will be executed.

Table 372 – Provision: Recreate mailbox – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Upgrade Mailbox {UPGMBX}

Function Selector: UPGMBX

IDL Function: PerformFunction

This function will upgrade the subscriber mailbox to an Executive Mailbox if the offer the subscriber has allows for the Executive type mailbox. If the request is attempted where the offer does not allow the Executive mailbox an error is returned.

If the offer does allow for an Executive Mailbox and the subscriber does not have a mailbox, an Executive mailbox is created. If an Executive mailbox already exists, the provisioning requests returns successful. If the mailbox is not an Executive mailbox, then the mailbox is upgraded to the Executive mailbox type.

Table 373 – Provision: Upgrade mailbox – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Set Call Forwarding {SETCFN}

Function Selector: SETCFN

IDL Function: PerformFunction

This function will set the call forwarding diverts for a subscriber to the mailbox. If the subscriber does not have a mailbox, ICAP will instead implement the logic to create a mailbox. This will automatically set the CF diverts to voicemail. If the subscriber does have a mailbox the CF diverts will be reset to voicemail.

Table 374 – Provision: Set Diverts – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Cancel Call Forwarding {CANCFD}

Function Selector: CANCFD

IDL Function: PerformFunction

This function will cancel the call forwarding diverts for a subscriber.

Table 375 – Provision: Set Diverts – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Add Multiparty Conference Call {ADDMCC}

Function Selector: ADDMCC

IDL Function: PerformFunction

This function will add the Multiparty Conference Call Service to the subscriber. If the subscriber already has the service an error will be returned.

Table 376 – Provision: Add Conference Call – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Remove Multiparty Conference Call {DELMCC}

Function Selector: DELMCC

IDL Function: PerformFunction

This function will remove the Multiparty Conference Call Service from the subscriber. If the subscriber does not have the service an error will be returned.

Table 377 – Provision: Remove Conference Call – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Add GPRS service to a Subscriber’s Profile {ADGPRS}

Function Selector: ADGPRS

IDL Function: PerformFunction

This function will add the GPRS service to the subscriber’s profile. If the subscriber already has the service an error will be returned.

Table 378 – Provision: Add GPRS – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Lock a Phone: Stolen Phone {LCKSTN}

Function Selector: LCKSTN

IDL Function: PerformFunction

This function will lock a subscriber for Stolen. If the subscriber is a Twincall subscriber the request will fail. Please refer to [4] for more information on the exceptions returned from iCAP. Twincall subscribers are required to use Customer Care for locking a stolen phone

Table 379 – Provision: Lock Stolen – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| LOCK STATUS | Optional | String(1) | The lock status to be set for the subscriber. Possible values are (I)ncoming, (O)utgoing or (F)ull. |

### Provision: Unlock a Phone: Stolen Phone {UNLSTN}

Function Selector: UNLSTN

IDL Function: PerformFunction

This function will unlock a subscriber that has previously been locked for Stolen. If the subscriber is a Twincall subscriber the request will fail. Twincall subscribers are required to use Customer Care for locking a stolen phone

Table 380 – Provision: Unlock Stolen – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Add Data service to a Subscriber’s Profile {ADDATA}

Function Selector: ADDATA

IDL Function: PerformFunction

This function will add the DATA service to the subscriber’s profile. If the subscriber already has the service an error will be returned.

This function should only be available to Prepaid Subscribers (excluding IN-SIGI numbers). Contract subscribers must contact their Service providers to get access to a data service.

If an attempt is made to provision a contract subscriber in this way, a business rule configured on the database will raise an exception indicating that this is a not a prepaid subscriber.

Prepaid subscribers can provision themselves and will get the standard data service for pre-paid subscribers.

The data service MSISDN will be the same as the subscriber’s telephony MSISDN.

Table 381 – Provision: Add Data Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Add Broadband ADSL ad-hoc data bundle {ADADSL}

Function Selector: ADADSL

IDL Function: PerformFunction

This function will add the specified Broadband ADSL ad-hoc bundle service to the subscriber’s profile. The subscriber may have multiple active bundles.

This function shall only be available to Broadband ADSL subscribers (Offer Group = ‘DSL’).

Table 382 – Provision: Add Data Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| USER KEY | Mandatory | String | Subscriber’s Userkey. Value is equal to Service ID ‘K’. |
| SERVICE ID | Mandatory | String | Servcie ID for the required bundle |

### Provision: Add Data service to a Subscriber’s Profile – Multi or Single Numbering {ADDATM}

Function Selector: ADDATM

IDL Function: PerformFunction

This function will add the DATA service to the subscriber’s profile. If the subscriber already has the service an error will be returned.

The data service MSISDN will be the same as the subscriber’s telephony MSISDN if single numbering is configured for the subscriber. The data service MSISDN will be taken from MSISDNs configured specifically for the data service or from MSISDNs not configured for a specific service type if multi-numbering is configured for the subscriber.

Table 383 – Provision: Add Data Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Remove Data service from a Subscriber’s Profile {RMDATA}

Function Selector: RMDATA

IDL Function: PerformFunction

This function will remove the DATA service to the subscriber’s profile. If the subscriber does not have the service an error will be returned.

This function should only be available to Prepaid Subscribers (excluding IN-SIGI numbers). Contract subscribers must contact their Service providers to get their data services deleted.

If an attempt is made to provision a contract subscriber in this way, a business rule configured on the database will raise an exception indicating that this is a not a prepaid subscriber.

Table 384 – Provision: Remove Data Service– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Add Data Unlimited Service {ADDUNL} for Bomba Internet product

Function Selector: ADDUNL

IDL Function: PerformFunction

This function is used in Tanzania by Grapevine (Ref TZFS-082 Bomba Internet). The marketed product was initially called Data Unlimited but has been renamed to Internet Bomba. It is a time based data bundle rather than a volume based data bundle e.g. unlimited data for 30 days.

This function will execute an iCAP highspeed request to purchase the data bundle on PPFE and add the Data Unlimited service to the subscriber’s profile. iCAP will validate that the service is allowed. If the subscriber already has the service, the expiry date will be extended by the days purchased. The keyword parameter caters for the bundle of 30/90 days. CUR will be provisioned with an event, and the subscriber will be sent an SMS response.

Table 385 – Provision: Add Data Unlimited Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| KEYWORD | Mandatory | String(15) | This is used to select which service is required. |

Unlimited Data Bundles: 7 days, 30 days, 90 days. Keywords are:

BOMBA7, BOMBA30, BOMBA90.

### CallSponsor Requests – General

The Call Sponsor service requests are created on a service offering id. These service offering ID’s are not determined via the lookup server. They should be determined via the Call Sponsor query executed on the basis of whether it is the **sponsored** or **sponsor** subscriber that is about to perform the administration. The Call Sponsor query will return the relevant Service Offering ID that should be used for the administration of Call Sponsor for the subscriber. The Service Offering ID is different for the ***sponsor*** (CSC) vs the ***sponsored*** (CSP) subscriber.

### Provision: Create Call Sponsor Link {MNGCSS}

Function Selector: MNGCSS

IDL Function: PerformFunction

This function will set create a CallSponsor Link for a subscriber to sponsor a subscriber to dial programmed numbers at the cost of the Sponsor subscriber.

Any contract subscriber (excluding Hybrid, Community Services and Closed User Group subscribers) can offer to ***sponsor*** another subscriber for calls to a particular programmed number (within the limitations of the valid programmed numbers). The current business rules state that a contract subscriber may sponsor a maximum of 6 other subscribers (currently only pre-paid subscribers may be sponsored) for up to a maximum of 6 programmed numbers each. This is configurable on iCAP. When this limit is reached an error will be returned.

Currently the Sponsor MSISDN must be a Contract subscriber, and the Sponsored must be a Prepaid or Hybrid subscriber.

#### Create Call Sponsor Link Logic

Check that the subscriber has been provisioned with the CSC service.The client shall perform this check.

If the above check has passed, query the Call Sponsor Info query for this subscriber to determine if the subscriber currently sponsors any numbers and to determine how many ‘slots’ are available if any for this subscriber to create links for.

If there are slots available for the subscriber after querying the Call Sponsor info, then allow the user to create new Call Sponsor links.

The programmed numbers will be validated by iCAP, but can be validated by the client as well. The excluded programmed numbers will be a configurable list on iCAP.

The following parameters should be supplied to execute the request type MNGCSS:

* MSISDN of the ***sponsor*** subscriber
* MSISDN of the ***sponsored*** subscriber
* Programmed number (see below for further information on excluded numbers)

The MSISDN of the ***sponsored*** subscriber and the programmed number should be concatenated into a comma-delimited attribute to be used in this service request as the identifier for the Call Sponsor service. The service request will be logged against the ***sponsor*** subscribers record in iCAP, using the MSISDN as the subscriber identifier.

The output parameters for the logging of a successful request:

* Request ID
* Request Sequence
* SMS Message sequence
* Execution type

If there has been an iCAP application exception and the request cannot be logged, an exception message should be returned to the client:

‘There is a problem with your request and it cannot be executed at this time. Please contact customer care to assist you with setting up your Call Sponsor links.’

Once the request has been submitted to iCAP, additional validation will be performed on the ***sponsored*** subscriber for example, the sponsor subscriber may have free slots available, but the ***sponsored*** subscriber may already have been sponsored for the maximum number of programmed numbers allowed for a ***sponsored*** subscriber.

A programmed number must be:

* Vodacom Mobile Number MSISDN
* Telkom number
* Conform to the 10 digit number structure e.g. 0829812345 or 0214251234

A programmed number may not be one of the following:

* MTN number
* Cell C number
* An International Number
* Telkom Caller Pays numbers: numbers in the range 0880xxxxxx.
* A Value added Number (VAS)
* All numbers in the 08223xxxxx range
* All numbers in the 08228xxxxx range
* A Premium-rated number: Numbers in the ranges
* 08230xxxxx to 08231xxxxx
* All Numbers 08228xxxxx
* A Number with a prefix of 0800 and 0860
* A Short Code number

The exclusions of the programmed number shall be configurable.

#### Create Call Sponsor Request Attributes

Table 386 – Provision: Create CallSponsor Link – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SPONSOR\_MSISDN | Mandatory | String | Sponsor number in 10-digit format e.g. ‘0829812345’ or ‘0219876543’, or Number Plan appropriate format - see [3.2] |
| SPONSORED\_MSISDN | Mandatory | String | Sponsored subscriber number in 10-digit format e.g. ‘0829812345’ or ‘0219876543’ or Number Plan appropriate format - see [3.2] |
| PROG\_NUMBER | Mandatory | String(10) | Sponsored number in 10-digit format e.g. ‘0829812345’ or ‘0219876543’ or Number Plan appropriate format - see [3.2] |

### Provision: Delete Call Sponsor Link {DELCSS}

Function Selector: DELCSS

IDL Function: PerformFunction

Check the ‘Subscriber State’ of the subscriber from the subscriber profile query.

If the following criteria are met, then the subscriber can attempt to delete an existing Call Sponsor link:

* Subscriber State = ‘Active’

If the above check is passed, query the Call Sponsor Link query for this subscriber to determine if the subscriber currently sponsors any programmed numbers for other subscribers, that can be deleted or if the subscriber is currently sponsored for any programmed numbers by another subscriber.

The following parameters shall be supplied to execute the request type MNGCSS:

* MSISDN of the ***sponsor*** subscriber
* MSISDN of the ***sponsored*** subscriber
* Programmed number (see below for further information on excluded numbers)
* Service Offering ID as returned by the Call Sponsor query

If the Call Sponsor link is deleted by ***sponsor*** subscriber then the MSISDN of the sponsored subscriber and the programmed number should be concatenated into a comma-delimited attribute to be used in this service request as the identifier for the call sponsor service.

The service request will be logged against the ***sponsor*** subscribers record in iCAP, using the MSISDN as the subscriber identifier.

If the Call Sponsor link is deleted by ***sponsored*** subscriber the MSISDN of the sponsor subscriber and the programmed number should be concatenated into a comma-delimited attribute to be used in this service request as the identifier for the call sponsor service.

The service request will be logged against the ***sponsored*** subscribers record in iCAP, using the MSISDN as the subscriber identifier.

Table 387 – Provision: Delete CallSponsor Link – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SPONSOR\_MSISDN | Mandatory | String | Sponsor number in 10-digit format e.g. ‘0829812345’ or ‘0219876543’ or Number Plan appropriate format - see [3.2] |
| SPONSORED\_MSISDN | Mandatory | String | Sponsored subscriber number in 10-digit format e.g. ‘0829812345’ or ‘0219876543’or Number Plan appropriate format - see [3.2] |
| PROG\_NUMBER | Mandatory | String | Sponsored number in 10-digit format e.g. ‘0829812345’ or ‘0219876543’ or Number Plan appropriate format - see [3.2] |
| CURRENT\_SO\_ID | Mandatory | String(3) | ‘CSC’ or ‘CSP’  CSC = Contract Sponsor deleting the link,  CSP = Prepaid sponsored subscriber deleting the link  Looked up from the Call Sponsor query by the client. |

### Provision: Accept/Reject a CallSponsor Link {CSACRJ}

Function Selector: CSACRJ

IDL Function: PerformFunction

The Accept Call Sponsor service request indicates that the sponsored subscriber is willing to accept the sponsorship from the sponsor subscriber for a particular programmed number.

#### Accept/Reject CallSponsor Link logic

Check the ‘Payment Method’ and ‘Subscriber State’ of the subscriber from the subscriber profile query.

If the following criteria are met, then the subscriber can attempt to accept a Call Sponsor link:

* Payment method = ‘Prepaid’ or ‘Hybrid’
* Subscriber State = ‘Active’ or ‘TWL’, not locked.

The following parameters should be supplied to execute the request type ‘CSACRJ’:

* MSISDN of the ***sponsor*** subscriber
* MSISDN of the ***sponsored*** subscriber
* Programmed number
* Service Offering ID as returned by the Call Sponsor query
* The action to take on the link

If there has been an iCAP application exception and the request cannot be logged, an exception message should be returned to the client:

Table 388 – Provision: Accept/Reject CallSponsor Link – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SPONSOR\_MSISDN | Mandatory | String | Sponsor number in 10-digit format e.g. ‘0829812345’ or ‘0219876543’or Number Plan appropriate format - see [3.2] |
| SPONSORED\_MSISDN | Mandatory | String | Sponsored subscriber number in 10-digit format e.g. ‘0829812345’ or ‘0219876543’or Number Plan appropriate format - see [3.2] |
| PROG\_NUMBER | Mandatory | String | Sponsored number in 10-digit format e.g. ‘0829812345’ or ‘0219876543’or Number Plan appropriate format - see [3.2] |
| CURRENT\_SO\_ID | Mandatory | String(3) | ‘CSP’  CSP = Prepaid subscriber Accepting/Rejecting the link |
| ACTION\_TYPE | Mandatory | String(3) | ‘ACC’: Accept a Link  ‘REJ’: Reject a Link |

### Provision: Request an Itemised Statement for a Subscriber {ITSTMT}

Function Selector: ITSTMT

IDL Function: PerformFunction

This function will request an itemised statement for the subscriber.

This function should only be available to Prepaid and Hybrid type Subscribers (excluding IN-SIGI numbers). Contract subscribers must contact their Service providers to get their itemised statements.

Table 389 – Provision: Request Itemised Statement – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | ‘M’ (MSISDN) |
|  |  |  |  |
|  |  |  |  |
| CONTENT\_TYPE | Mandatory | String(1) | The type of statement. Examples of the types are:  1 – Previous 30 days statement  2 – Previous calendar month’s statement  3 – Mini Statement  This value can be retrieved from the QSTTYP query. |
| RECIPIENT\_NAME | Mandatory | String(40) | The person/entity that the content is to be delivered to. |
| DELIVERY\_CHANNEL | Mandatory | String(1) | The delivery channel for the statement contents. ‘F’ for FAX or ‘E’ for EMAIL |
| DESTINATION | Mandatory | String(50) | The destination of the content. It shall be a fax number or an e-mail address. |

### Provision: Create Siebel Self Help Request {SBSHSR} This function is no longer available via the HighSpeed

Function Selector: SBSHSR

IDL Function: PerformFunction

This function will create a Siebel Self Help Service request to be logged in the Siebel System.

This function should be available to all subscribers.

Table 390 – Provision: Create Siebel Service Request – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| FIRST NAME | Mandatory | String(50) | First name of contact for whom service request is being created. Will be used to determine if a new Siebel contact record should be created before creating the SR. |
| LAST NAME | Mandatory | String(50) | Last name of contact for whom service request is being created. Will be used to determine if a new Siebel contact record should be created before creating the SR. |
| DESCRIPTION | Mandatory | String(800) | Description of the application fault |
| EMAIL | Mandatory | String(40) | e-mail address |

### Provision: Provision SIM card Request {SIMPRV}

Function Selector: SIMPRV

IDL Function: PerformFunction

This function will provision a SIM card on the iCAP system. If the SIM card is indicated to be a Prepaid Starterpack the MSISDN’s allocated to the starterpack will be returned to the calling client.

This function should be available to all types of SIMS – contract, prepaid and replacement SIMS.

Table 391 – Provision: Provision SIM card Request – In AttributeList

| Attribute Name | Mandatory/ Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | C (ICCID) |
| IMSI | Mandatory | String | IMSI Number |
| PIN | Mandatory | String | PIN number |
| PUK | Mandatory | String | PUK number |
| PIN2 | Mandatory | String | PIN number |
| PUK2 | Mandatory | String | PUK number |
| A4KI | Mandatory | String | Authentication key 1 |
| A3A8 | Optional | String | Authentication key 2 |
| TRANSPORT\_KEY | Optional | String | Key to indicate encryption/decryption. |
| OTAKEY0 | Optional | String | WIG platform OTA key 1 |
| OTAKEY1 | Optional | String | WIG platform OTA key 2 |
| OTAKEY32 | Optional | String | WIG platform OTA key 3 |
| OTAKEY33 | Optional | String | WIG platform OTA key 4 |
| OTAKEY48 | Optional | String | WIG platform OTA key 5 |
| OTAKEY49 | Optional | String | WIG platform OTA key 6 |
| SP\_SEQ | Mandatory | String | The SP sequence associated with the order. See 5.5 for more details on SP sequence |
| OFFER\_ID | Optional. | String | The Offer ID applicable for this SIM. Contract and Replacement Orders have a NULL value. See 5.7 |
| SO\_ID | Optional. | String | The Service Offering ID applicable for this SIM. Values are ‘03K’, ‘08K’, ‘16K’ or ‘32K’ |
| ACCOUNT | Mandatory/Optional | String | The account the SIM card is to be linked to. The Account is mandatory for Prepaid Starter pack provisioning. See 5.13 for a list of the available account numbers |
| MEMORY | Optional | String | The amount of memory on the card – number of bytes available on the Sim card. |
| WIG\_CARD\_PROFILE | Optional | String | The WIG profile that the SIM will be linked to in the WIG platform when the SIM is provisioned on the platform. |
| T11\_MSISDN | Optional | String | T11 MSISDN in 10 digit format or Number Plan appropriate format - see [3.2] |
| K4ID | Optional | String | Additional Authentication Key for SIM Manufacturers |
| KI\_INDEX | Optional | String | Index value for KI field |

Table 392 – Provision: Provision SIM card Request – Out AttributeList

| Attribute Name | Mandatory/ Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| MSISDN\_T11 | Mandatory for Prepaid Starter packs. Optional otherwise. | String | MSISDN in 10 digit format or Number Plan appropriate format - see [3.2] |
| MSISDN\_DATA | Optional | String | MSISDN in 10 digit format or Number Plan appropriate format - see [3.2] |
| MSISDN\_FAX | Optional | String | MSISDN in 10 digit format or Number Plan appropriate format - see [3.2] |
| EXPIRY\_DATE | Optional | String(10) | The date the Starter pack expires in ‘YYYY-MM-DD’ format. Null for non-starter packs. |

### Provision: Delete a SIM card on the iCAP system Request {SIMDEL}

Function Selector: SIMDEL

IDL Function: PerformFunction

This function will mark a card as deleted on the iCAP system.

For contract and replacement cards the SIM card must be in the available state for a delete. For Prepaid Starterpack cards the SIM card must not be linked to an active subscriber. If the SIM card is in the incorrect state the delete request will fail.

Table 393 – Provision: Delete SIM card Request – In AttributeList

| Attribute Name | Mandatory/ Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | C (ICCID) |

### Provision: Register Subscriber for Specific Needs {SPNREG}

Function Selector: SPNREG

IDL Function: ExecFunction

This function will register the subscriber with specific needs indicators on iCAP.

Prior or during execution of this function, the client will need to perform the following lookup queries to find values for user selection:

* Sel\_titles – before execution
* Sel\_country – before execution
* LANGUAGE – before execution
* ATTR CAT – before execution. Only values where the parameter ‘subscriber attribute category ID’ in comma-delimited list in ELEMENT4 are one of the following should be used to build lists for user selection:
* NEEDS
* SG
* SANCB
* DEAFSA
* NCPPDSA
* NEEDS-A
* IN-COM-V1
* IN-COM-V2
* IN-COM-T1
* IN-COM-T2
* OUT-COM-V1
* OUT-COM-V2
* OUT-COM-T1
* OUT-COM-T2
* OUT-COM-S
* OUT-COM-B

The rule returned for each of these values should be used to inform the user which are mandatory categories i.e. the user must select at least one entry for that subscriber attribute category (=1), which are optional and none need be selected (<=1) and which are mandatory and the user can select more than one entry (>=1). It is possible that the values returned for several of the subscriber attribute category can be similar e.g. IN-COM-V1 (incoming communication preference 1) and IN-COM-V2 (incoming communication preference 2) will both offer the user the same values as we are recording preference 1 and 2 for the a communication channel.

* sel\_postal – during execution, based on input filter parameters entered by user.

An SMS shall be sent to the subscriber if the following conditions are met:

* The SEND\_SMS parameter is set to ‘Y’
* There are values in the surname, firstname and the ID number fields.

Table 394 – Provision: Register for specific needs – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

Table 395 – Provision: Register for specific needs – Input Structures

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| ServiceActionList | Optional | Structure | Null |
| Party | Mandatory | Structure | See  Table 396 for details |
| ActionAttributeList | Mandatory | Structure | See  Table 401 for details |

Table 396 – Provision: Register for specific needs Party Structure

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| ICAP\_ID | Optional | String | Null – not used in provisioning |
| ICAP\_ROLE | Optional | String | Null – not used in provisioning |
| TITLE | Mandatory | String | Values determined by lookup as defined in section 0. Use lookup ‘sel\_titles’ to find values. |
| SURNAME | Mandatory | String | Maximum 64 characters |
| FIRSTNAME | Mandatory | String | Maximum 20 characters |
| INITIALS | Mandatory | String | Maximum 4 characters |
| LANGUAGE | Mandatory | String | Values determined by lookup as defined in section 0. Use lookup ‘LANGUAGE’ to find values. |
| BIRTHDATE | Optional | String | Subscriber’s date of birth in format YYYY-MM-DD e.g. 1965-01-01 |
| ACTIVEYN | Optional | String | Null |
| LISTED | Optional | String | Null |
| GENDER | Optional | String | Values: ‘F’ or ‘M’ |
| CONTACTLIST | Mandatory | Structure | Refer to  Table 397, one or more contacts can be created. The postal address must be created. |
| IDLIST | Mandatory | Structure | Refer to  Table 398, one ore more ID’s can be created |
| ROLELIST | Mandatory | Structure | Refer to  Table 399, one or more roles can be created |
| CONTACTNUMLIST | Optional | Structure | Refer to  Table 400, one or more contact numbers can be created. |

Table 397 – ContactList (tPartyContactList) Structure

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SEQ | Optional | String | Null |
| STREET\_POSTAL\_IND | Mandatory | String | Values: ‘P’ – Postal, ‘S’ – Street, ‘D’ – Delivery. If the same address is used for more than one address type, send a comma delimited list of indicators e.g. for postal & street address ‘P,S’. For Delivery & Postal ‘D,P’ |
| FROM\_DATE | Optional | String | Null |
| STREET1 | Mandatory | String | Maximum 100 characters |
| STREET2 | Optional | String | Maximum 100 characters |
| STREET3 | Optional | String | Maximum 100 characters |
| SUBURB | Optional | String | Maximum 60 characters |
| CITY | Mandatory | String | Maximum 40 characters |
| TO\_DATE | Optional | String | Null |
| POSTALCODE | Mandatory | String | Maximum 10 characters, Values determined by lookup as defined in section 0. Use lookup ‘sel\_postal’ to find values. |
| COUNTRY\_ID | Mandatory | String | ISO Country Code – Values determined by lookup as defined in section 0. Use lookup ‘sel\_country’ to find values. |
| REGION | Null | String | Province, state or region in which the town of the subscriber is located. Region is derived from the post code submitted by the user. |

Table 398 – IDList (tPartyIdList) Structure

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SEQ | Optional | String | Null |
| ID­\_COUNTRY | Mandatory | String | ID Nationality. Values determined by lookup as defined in section 0. **Optional if ID\_TYPE = ‘@’.** Use lookup ‘sel\_country’ to find values |
| ID­\_NUMBER | Mandatory | String | Maximum 40 characters |
| ID\_­TYPE | Mandatory | String | Values: ‘N’ – SA ID document, ‘P’ – passport, ‘@’ – Email address  For specific needs, an SA ID or passport number are mandatory. An email address can be supplied as an optional extra. |

Table 399 – RoleList (tPartyRoleList) Structure

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SEQ | Optional | String | Null |
| ROLE\_TYPE | Optional | String | Null |
| SU\_SEQ | Optional | String | Null |

Table 400 – ContactNumList (tPartyContactNumList) Structure

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SEQ | Optional |  | Null |
| COUNTRY \_CODE | Mandatory | String | Dialing code for the country in which the number is located e.g. ‘27’ for South Africa, ‘44’ for the United Kingdom  Maximum 15 characters |
| AREA\_NETWORK\_CODE | Mandatory | String | Dialing code for the national area in which the number is located e.g. ‘11’ for Johannesburg or ‘21’ for Cape Town or ‘82’ or ‘72’ for Vodacom  Maximum 15 characters |
| DIAL\_NUMBER | Mandatory | String | Dialed service number e.g. ‘4256160’ or if mobile phone entered, e.g. 0829805125 – ‘9805125’  Maximum 15 characters |
| TYPE | Mandatory | String | B – Business Contact Number, F – Fax number, H – Home contact number, Maximum 1 character |

Table 401 – Subscriber Attribute (ActionAttributeList) Structure

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SAT\_ID | Optional | String | Attribute type identifier e.g. ‘CCI’ as determined from subscriber attributes lookup query. Values determined by lookup as defined in section 0. Use lookup ‘ATTR CAT’ to find values. Value is found in comma-delimited list in ELEMENT4 – 1st attribute = subscriber attribute category ID |
| CURRENT\_SAC\_ID | Optional | String | Current attribute value being replaced or terminated – if subscriber already allocated to an attribute type, e.g. ‘VIP’ as determined from subscriber attributes query. **Mandatory if subscriber attribute is being migrated[[4]](#footnote-5) or terminated.** Values determined by lookup as defined in section 0. Use lookup ‘ATTR CAT’ to find values. Use lookup ‘ATTR CAT’ to find values. Value is found in comma-delimited list in ELEMENT4 – 2nd attribute = subscriber attribute ID |
| NEW\_SAC\_ID | Optional | String | New attribute value replacing the existing value if any – if subscriber is being allocated to an attribute type, e.g. ‘VIP’ as determined from subscriber attributes lookup query. **Mandatory if subscriber attribute is being created.** Values determined by lookup as defined in section 0. Use lookup ‘ATTR CAT’ to find values. Value is found in comma-delimited list in ELEMENT4 – 2nd attribute = subscriber attribute ID |
| DATE\_FROM | Optional | String | Date from which the change in attribute is applicable, typically system date, ***Date should not be in the future***. **Mandatory if subscriber attribute is being created.** |
| DATE\_TO | Optional | String | Date to which the change in attribute is applicable, typically system date ***Date should not be in the future***. **Mandatory if subscriber attribute is being terminated.** |

### Provision: Deactivate Specific Needs Registration for Subscriber {SPNCAN}

Function Selector: SPNCAN

IDL Function: ExecFunction

This function will deactivate all specific needs attributes for a subscriber. This function can be used where a subscriber may have registered as a specific needs subscriber in error.

Table 402 – Provision: Deactivate Specific Needs – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Update Subscriber’s Call Routing Language {UPDLAN}

Function Selector: UPDLAN

IDL Function: PerformFunction

This function will update the subscriber’s Call Routing language preference in iCAP. This will in turn, update the subscriber’s Call Routing Flags query – see section 3.5.21.

The function may also provision network elements with the change. An optional parameter is included allowing the HSI client to specify whether this should happen, but if the parameter is omitted, network elements will be provisioned.

Table 403 – Provision: Update Subscriber’s Language – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| LANGUAGE | Mandatory | String(3) | The Subscriber’s Language Code as listed in Table 716 in section 5.2. |
| UPDATE NETWORK ELEMENTS | Optional | String(1) | If ‘N’, update iCAP stored language change, but do not update downstream network elements with the language setting change  If ‘Y’, update iCAP stored language change, and update downstream network elements with the language setting change  If not supplied, assume behaviour of ‘Y’. |

For DRC, a MNGATT request will be logged with the using the parameter LOG OCS CMD = Y.

*NB - UPDATE NETWORK ELEMENTS is not used for DRC.*

### Provision: Move Mailbox {MOVMBX}

Function Selector: MOVMBX

IDL Function: PerformFunction

This function will move a subscriber’s mailbox from one platform to another platform.Should this request fail any of the existing validation criteria (e.g. mailbox does not exist) an appropriate error message must be returned to the calling party).RAMS will use this error message to determine whether the mailbox should be deleted on their respective systems.

Table 404 – Provision: Move mailbox – In Attribute list

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
| NE ID | Mandatory | String | the platform that mailbox must be moved to( e.g.”VPS01”, “VPS49” etc) |

### Provision: Add APN to a Subscriber’s Profile {ADDAPN}

Function Selector: ADDAPN

IDL Function: PerformFunction

This function will add an APN to the subscriber’s profile. If the subscriber already has the APN an error will be returned.

Table 405 – Provision: Add GPRS – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| APN\_SRV\_ID | Mandatory | String(3) | The APN service ID that is to be provisioned for the subscriber. The APN’s currently available are listed in 5.11 |

### Provision: Delete APN to a Subscriber’s Profile {DELAPN} – This function is no longer available via the HighSpeed

### Provision: Send OTA settings to a Handset {OTASET}

Function Selector: OTASET

IDL Function: PerformFunction

This function will attempt to send OTA settings to a Handset. The GPRS, MMS, Handset Make and Model settings are no longer used in the provisioning of the OTA Settings.

The services that a handset may provision are required in the request. To retrieve the services the handset may get, perform a QDVCFG query. The services and TID are returned in this query.

Table 406 – Provision: Send OTA Settings– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| IMEI | Conditional | String | The IMEI of the Handset – mandatory if the WDS system if provisioning the settings to the handset, optional if the ADC system is provisioning the settings. |
| TID | Optional | String | The TID of the prior QDVCFG query |
| SERVICES | Optional | String | A comma separated list of services that are defined as OTA’able retrieved from the prior QDVCFG query. |

### Provision: Change Subscriber’s Class{CLSCHG}

Function Selector: CLSCHG

IDL Function: PerformFunction

This function will change the class of a Prepaid or Topup Subscriber. The current class of the subscriber is in the subscriber profile, with the Roaming flag indicated in the Call Routing Flags.

This function will fail for a Contract subscriber.

Table 407 – Provision: Change Class – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| CLASS | Mandatory | String(3) | The new Class of the subscriber be one of the following:  ‘NAT’ – National Subscriber (Only applicable for Topup Subscribers)  ‘INT’ – International Subscriber  ‘ROM’ – International Roaming Subscriber |

### Provision: Add Fax service to a Subscriber’s Profile {ADDFAX}

Function Selector: ADDFAX

IDL Function: PerformFunction

This function will add the FAX service to the subscriber’s profile. If the subscriber already has the service an error will be returned.

This function should only be available to Prepaid Subscribers (excluding IN-SIGI numbers). Contract subscribers must contact their Service providers to get access to a fax service.

If an attempt is made to provision a contract subscriber in this way, a business rule configured on the database will raise an exception indicating that this is a not a prepaid subscriber.

Prepaid subscribers can provision themselves and will get the standard fax service for pre-paid subscribers.

The fax service MSISDN will be the same as the subscriber’s telephony MSISDN if single numbering is configured for the subscriber. The fax service MSISDN will be taken from MSISDNs configured specifically for the fax service or from MSISDNs not configured for a specific service type if multi-numbering is configured for the subscriber.

Table 408 – Provision: Add Fax Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Remove Fax service from a Subscriber’s Profile {REMFAX}

Function Selector: REMFAX

IDL Function: PerformFunction

This function will remove the FAX service to the subscriber’s profile. If the subscriber does not have the service an error will be returned.

This function should only be available to Prepaid Subscribers (excluding IN-SIGI numbers). Contract subscribers must contact their Service providers to get their fax services deleted.

If an attempt is made to provision a contract subscriber in this way, a business rule configured on the database will raise an exception indicating that this is a not a prepaid subscriber.

Table 409 – Provision: Remove Fax Service– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Register Subscriber Details {REGSUB}

Function Selector: REGSUB

IDL Function: ExecFunction

This function will register the subscriber information against the subscriber’s profile in iCAP. This request shall send an SMS to the subscriber requesting that the subscriber confirm the registration.

Prior or during execution of this function, the client will need to perform the following lookup queries to find values for user selection:

* Sel\_titles – before execution
* Sel\_country – before execution
* sel\_postal – during execution, based on input filter parameters entered by user.
* LANGUAGE – before execution
* CHILDREN – before execution
* EDLEVEL – before execution
* MARSTAT – before execution
* CTMTHD – before execution
* EMPSTAT – before execution
* EMPCAT – before execution
* ECSECT – before execution
* INTHOB – before execution
* SPORTS – before execution
* TERINST – before execution, based on input filter parameters entered by user.
* ATTR CAT – before execution. Only values where the parameter ‘subscriber attribute category ID’ in comma-delimited list in ELEMENT4 are one of the following should be used to build lists for user selection:
* CHILDREN
* EDLEVEL
* MARSTAT
* CTMTHD
* EMPSTAT
* EMPCAT
* ECSECT
* INTHOB
* SPORTS
* TERINST

The rule returned for each of these values should be used to inform the user which are mandatory categories i.e. the user must select at least one entry for that subscriber attribute category (=1), which are optional and none need be selected (<=1) and which are mandatory and the user can select more than one entry (>=1).

Please see Table 412 for the fields that are required for the subscriber registration.

Table 410 – Provision: Register Subscriber details – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| LAST4\_ICCID | Optional | Stirng(4) | Last 4 Digits of the subscriber’s ICCID |

Table 411 – Provision: Register Subscriber details – Input Structures

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| ServiceActionList | Optional | Structure | Null |
| Party | Mandatory | Structure | See  Table 396 for details of the data structure, and the mandatory and optional values required for the subscriber registration. |
| ActionAttributeList | Mandatory | Structure | See  Table 401 for details.  All attributes are optional values. If no attributes are to be registered, the parameter shall have a null value. |

Table 412: Data required for Subscriber Registration

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description | Data Type | Source | Mandatory/Optional | Party Data/Attribute |
| Last 4 digits of ICCID (e.g. 1234) | Number | Input | Optional | Party Data |
| Title | String | Lookup – SA\_TITLES | Mandatory | Party Data |
| Initials | String | Input | Mandatory | Party Data |
| Name | String | Input | Mandatory | Party Data |
| Surname | String | Input | Mandatory | Party Data |
| ID number | Number | Input | Mandatory | Party Data |
| ID Type | String | List | Mandatory | Party Data |
| ID Nationality | String | Lookup – SA\_COUNTRIES | Mandatory | Party Data |
| Language | String | Lookup – SA\_LANGUAGES | Mandatory | Party Data |
| Gender | String | List | Mandatory | Party Data |
| Birth Date | Number | Input | Optional | Party Data |
| Street Address | String | Input | Mandatory | Party Data |
| Postal Address | String | Input | Optional | Party Data |
| Home phone | Number | Input | Optional | Party Data |
| Fax | Number | Input | Optional | Party Data |
| Business phone | Number | Input | Optional | Party Data |
| E-mail Address | String | Input | Optional | Party Data |
| Would you like Vodacom to let you know about new products & services? | String | List – Yes/No | Optional | Attribute – PRDINF |
| How would you like to be contacted? | String | Lookup – CTNTHD | Optional | Attribute – CTNTHD |
| Listed Number | Number | Input | Optional | Party Data |
| Highest Education Level | String | Lookup – EDLEVEL | Optional | Attribute – EDLEVEL |
| Marital Status | String | Lookup – MARSTAT | Optional | Attribute – MARSTAT |
| Number of children under 16 | String | Lookup – CHILDREN | Optional | Attribute – CHILDREN |
| Employment Status | String | Lookup – EMPSTAT | Optional | Attribute – EMPSTAT |
| Employer Category | String | Lookup – EMPCAT | Optional | Attribute – EMPCAT |
| Economic Sector/Industry | String | Lookup – ECSECT | Optional | Attribute – ECSECT |
| Student Number | String | Input | Optional | Party ID Data |
| Tertiary Institution | String | Lookup – TERINST | Optional | Attribute- TERINST |
| Graduation year | Number | Input | Optional | Party ID Data |
| Interests and hobbies | String | Lookup – INTHOB | Optional | Attribute – INTHOB |
| Sports | String | Lookup – SPORTS | Optional | Attribute – SPORTS |

### Provision: Add Data service to a Subscriber’s Profile – Multi or Single Numbering {ADDATM}

Function Selector: ADDATM

IDL Function: PerformFunction

This function will add the DATA service to the subscriber’s profile. If the subscriber already has the service an error will be returned.

The data service MSISDN will be the same as the subscriber’s telephony MSISDN if single numbering is configured for the subscriber. The data service MSISDN will be taken from MSISDNs configured specifically for the data service or from MSISDNs not configured for a specific service type if multi-numbering is configured for the subscriber.

Table 413 – Provision: Add Data Service (Multi or Single Numbering)– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Update Subscriber Details {UPDDET}

Function Selector: UPDDET

IDL Function: ExecFunction

This function will update the subscriber registration information against the subscriber’s profile in iCAP. The request will also allow the subscriber registration attributes to be updated. Before executing this function the user will have to query the subscriber’s current registration details via the QRGINF query defined in 3.5.24. This is required as the user will have to resend all current values in the Party structure that haven’t been updated together with all updated values for the request. Prior or during execution of this function, the client will need to perform the following lookup queries to find values for user selection:

* Sel\_titles – before execution
* Sel\_country – before execution
* sel\_postal – during execution, based on input filter parameters entered by user.
* LANGUAGE – before execution
* CHILDREN – before execution
* EDLEVEL – before execution
* MARSTAT – before execution
* CTMTHD – before execution
* EMPSTAT – before execution
* EMPCAT – before execution
* ECSECT – before execution
* INTHOB – before execution
* SPORTS – before execution
* TERINST – before execution, based on input filter parameters entered by user.
* ATTR CAT – before execution. Only values where the parameter ‘subscriber attribute category ID’ in comma-delimited list in ELEMENT4 are one of the following should be used to build lists for user selection:
* CHILDREN
* EDLEVEL
* MARSTAT
* CTMTHD
* EMPSTAT
* EMPCAT
* ECSECT
* INTHOB
* SPORTS
* TERINST

The rule returned for each of these values should be used to inform the user which are mandatory categories i.e. the user must select at least one entry for that subscriber attribute category (=1), which are optional and none need be selected (<=1) and which are mandatory and the user can select more than one entry (>=1).

Please see Table 412 for the fields that are required for the subscriber details update.

Table 414 – Provision: Update subscriber details – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| LAST4\_ICCID | Optional | Stirng(4) | Last 4 Digits of the subscriber’s ICCID |

Table 415 – Provision: Update subscriber details – Input Structures

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| ServiceActionList | Optional | Structure | Null |
| Party | Mandatory | Structure | See  Table 396 for details of the data structure, and the mandatory and optional values required for the subscriber registration. |
| ActionAttributeList | Mandatory | Structure | See  Table 401 for details.  All attributes are optional values. If no attributes are to be registered, the parameter shall have a null value. |

### Provision: Add Video service to a Subscriber’s Profile {ADDVID}

Function Selector: ADDVID

IDL Function: PerformFunction

This function will add the Video service to the subscriber’s profile. If the subscriber already has the service an error will be returned.

This function should only be available to Prepaid Subscribers (excluding IN-SIGI numbers). Contract and Hybrid subscribers must contact their Service providers to get access to a data service.

If an attempt is made to provision a contract or Hybrid subscriber in this way, an exception will be returned.

The Video service MSISDN will be the same as the subscriber’s telephony MSISDN.

Table 416 – Provision: Add Video Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Remove Video service from a Subscriber’s Profile {REMVID}

Function Selector: REMVID

IDL Function: PerformFunction

This function will remove the Video service to the subscriber’s profile. If the subscriber does not have the service an error will be returned.

This function should only be available to Prepaid Subscribers (excluding IN-SIGI numbers). Contract and Hybrid subscribers must contact their Service providers to get their data services deleted.

If an attempt is made to provision a Contract or Hybrid subscriber in this way an exvception will be returned.

Table 417 – Provision: Remove Video Service– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Add Auto Recharge Service to a Subscriber’s Profile {ADDARE}

Function Selector: ADDARE

IDL Function: PerformFunction

This function will add the Auto Recharge Service to the Subscriber’s profile. If the Subscriber already has the Service an error will be returned.

This function should only be available to Hybrid and Prepaid Subscribers (excluding Starter Packs). If an attempt is made to provision a Contract Subscriber in this way, an exception will be returned.

Table 418 – Provision: Add Auto Recharge Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| FI\_CODE | Mandatory | String | 6 digit Financial Institution Code |
| FI\_NAME | Mandatory | String | Description of the Financial Institution, e.g. “First National Bank” |

### Provision: Remove Auto Recharge Service from a Subscriber’s Profile {REMARE}

Function Selector: REMARE

IDL Function: PerformFunction

This function will remove the Auto Recharge Service to the Subscriber’s profile. If the Subscriber does not have the Service an error will be returned.

This function should only be available to Hybrid and Prepaid Subscribers (excluding Starter Packs). If an attempt is made to provision a Contract Subscriber in this way an exvception will be returned.

Table 419 – Provision: Remove Auto Recharge Service– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Accept or Reject the subscriber’s registration information {ACRJRG}

Function Selector: ACRJRG

IDL Function: PerformFunction

This function will accept or reject the subscriber’s registration information. The Registration information shall be added prior to this accept or reject request. If the reply does not have a “Y” in the first character, the registration information shall be rejected.

Table 420 – Provision: Accept/Reject Registration Information– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| REPLY | Mandatory | String(3) | The reply indicating to accept or reject the registration information. The valid reply to accept the information shall have a ‘Y’ in the first character. Any other character shall be interpreted as a reject message. |

### Provision: Create Service Request Management Service Request (CSRMSR)

Function Selector: CSRMSR

IDL Function: PerformFunction

This function will create a service request on the Service Request Management section of Morpheus. It is available to all users.

Table 421: Provision: Create SRM Service Request – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SOURCE | Mandatory | String | Default = Vodacom4ME |
| DESCRIPTION | Mandatory | String | Description of the application fault |
| FIRST NAME | Mandatory | String | First name of contact for whom service request is being created. |
| SURNAME | Mandatory | String | Last name of contact for whom service request is being created. |
| EMAIL | Optional | String | E-mail address of Contact |
| LONGITUDE | Optional | String | GPS Coords |
| LATITUDE | Optional | String | GPS Coords |

Table 422: Provision: Create SRM Service Request – Out AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| GEN KEY | Mandatory | String(13) | SRM Service Request reference no on Morpheus |

### Provision: Lock a Phone: Admin lock {LCKADM}

Function Selector: LCKADM

IDL Function: PerformFunction

This function will admin lock a subscriber. If the subscriber is a Twincall subscriber both SIMs will be locked.

Table 423 – Provision: Admin Lock – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN), K (User Key – Vodanet)  C (ICCID), S (IMSI), E (SP\_ID), Q (ICAP ID) |
| LOCK STATUS | Mandatory | String(1) | The lock status to be set for the subscriber. Possible values are (I)ncoming, (O)utgoing or (F)ull. |
| LOCK REASON CODE | Optional | String(4) | Valid codes are shown in 5.16 iCAP Reasons |
| OPER TYPE | Optional | String | For DRC – see DRFS-0209 for possible values. |
| PROVISION AAA YN | Optional | String(1) | Allowed values ‘Y’ or ‘N’. If not supplied defaults to ‘N’. |

### Provision: Unlock a Phone: Admin lock {UNLADM}

Function Selector: UNLADM

IDL Function: PerformFunction

This function will unlock an admin locked subscriber. If the subscriber is a Twincall subscriber both SIMs will be unlocked.

Table 424 – Provision: Admin Unlock – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) , K (User Key – Vodanet)  C (ICCID), S (IMSI), E (SP\_ID), Q (ICAP ID) |
| UNLOCK REASON CODE | Optional | String(4) | Valid codes are shown in 5.16 iCAP Reasons |
| OPER TYPE | Optional | String | For DRC – see DRFS-0209 for possible values. |
| PROVISION AAA YN | Optional | String(1) | Allowed values ‘Y’ or ‘N’. If not supplied defaults to ‘N’. |

### Provision: Lock a Phone: Call Credit lock {LCKCCL}

Function Selector: LCKCCL

IDL Function: PerformFunction

This function will call credit lock a subscriber.

Table 425 – Provision: Admin Lock – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN), K (User Key – Vodanet) |
| LOCK REASON CODE | Optional | String(4) | Valid codes are shown in 5.16 iCAP Reasons e.g. CCL |
| BAR GPRS | Optional | String(1) | Y / N (default Y – GPRS will be barred) |

**Background**

1. Postpaid data bundles are currently provisioned to Vx-View from ICAP.
2. When subscriber reaches the subscribed allowance limit in Vx-View, s/he is billed an out-of-bundle rate. However, subscriber may reach his credit limit before end of the month and therefore be qualified for credit limit lock while his postpaid data bundle might or not still be running.

**Objectives**

* Allow notification of postpaid data bundle depletion from Vx-View in order to GPRS bar subscriber if he has been credit limit locked.

**Summary of the Requirements for the Solution**

1. Vx-View will use the existing soft lock function to bar voice if credit limit is reached.
2. Subscriber must be able to use his postpaid data bundle when s/he is credit limit locked if the bundle is not yet used up.
3. Based on the above, Vx-View needs to notify ICAP when the postpaid data bundle is depleted in order for ICAP to GPRS bar the subscriber.

**Solution**

1. Accommodate the above requirements by adapting the HSI function LCKCCL to allow a lock with or without GPRS barring using a “BAR GPRS” parameter set by the calling client.

### Provision: Unlock a Phone:Call Credit Unlock {UNLCCL}

Function Selector: UNLCCL

IDL Function: PerformFunction

This function will unlock a credit locked subscriber.

Table 426 – Provision: Admin Unlock – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) , K (User Key – Vodanet) |
| UNLOCK REASON CODE | Optional | String(4) | Valid codes are shown in 5.16 iCAP Reasons e.g. URS |

### Provision: Migrate PP product {MIGPRD}

Function Selector: MIGPRD

IDL Function: PerformFunction

This function will migrate the PP offer of a subscriber to a new offer.

Table 427 – Provision: Migrate PP Product – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| OFFER ID | Mandatory (Optional for DRC) | String(3) | The current offer ID of the subscriber, e.g. VOG |
| NEW OFFER ID | Mandatory | String(3) | The new offer ID of the subscriber. Values determined by lookup as defined in . Use lookup ‘NEW OFFER ID’ to find values as defined in section 0 |

#### DRC Specific Rules for MIGPRD

* OFFER ID is optional - If supplied, will be validated by current business rule. If the Offer ID is not supplied Highspeed will look up the current active offer of the subscriber and supply this on the MIGPRD request.
* NEW OFFER ID New Business Rule to be actioned in DB – if the New Offer ID is the same as the Offer ID then request will fail with “Requested Offer is the active subscription for subscriber ICAP\_ID.” Where ICAP\_ID is a variable.
* Highspeed will log a FORCE SYNCH MIGPRD request in the DB, via SRP. If the first command IPRVID to OCS fails, the whole request will be rolled back by the DB and Highspeed will return an error code with a message in the language configured on the language attribute. If no language is found, it will be by default in French.. If any of the following commands fail, it will require Ops intervention.

Table 428 : MIGPRD Error SMS Text

|  |  |  |
| --- | --- | --- |
| **MSG ID** | **Language** | **Text** |
| MIGPRD\_IPRVID\_FAILURE | ENG | You do not have enough credit to complete this request. Please recharge your account |
| MIGPRD\_IPRVID\_FAILURE | FRA | Vous n avez pas assez de credit pour effectuer cette transaction. Veuillez recharger votre compte |
| MIGPRD\_IPRVID\_FAILURE | SWA | Huna pesa yakutosha kwakukamilisha ombi hili. Tafadhali recharge akaunti yako |
| MIGPRD\_IPRVID\_FAILURE | LIN | Mosolo eye ozali na yango na kati ya compte principal nayo ekoki te mpona oyo osengi. Esengeli naino ko recharger compte nayo |
| MIGPRD\_IPRVID\_FAILURE | KON | Nge kele na credit ya ku lunga ve samu na ku sala transaction yayi. Buela sumba diaka credit. |
| MIGPRD\_IPRVID\_FAILURE | LUA | Kuena ni credit mikumbana bua kuenzela cizendi etshi. Suaku u kumbaja credit mu compte principale weba. |

### Provision: Activate the Blackberry service {ACTBLB}

Function Selector: ACTBLB

IDL Function: PerformFunction

This function will activate the Blackberry service on the Blackberry Internet Sevice platform.

Tanzania functionality

1. The highspeed will query subscriber profile (QSBSRV) to validate that the subscriber has the GPRS service. If there is no GPRS service the function returns error, indicating to the user that GPRS needs to be added first. Otherwise
2. Highspeed executes manage offer which will add Blackberry service.
3. The blackberry service is provisioned to RIM. No mailbox size shall be provisioned as the Blackberry platform (RIM) does not handle mailboxes.

DRC functionality

1. If this function called by ZTE using ORIGIN ID = ‘ZT’ the function will do the purchase request to deduct funds on the DRC ICC IN and add the Blackberry Bundle on the IN. After the successful funds deduction, the PWE will query subscriber profile (QSBSRV) to validate that the subscriber has the GPRS service. PWE then executes manage offer, which will add Blackberry service as well as GPRS (if it is not already subscribed).
2. If this function is called by PPFE there is no funds deduction (PPFE provisions the IN). The highspeed will query subscriber profile (QSBSRV) to validate that the subscriber has the GPRS service. Highspeed then executes manage offer, which will add Blackberry service, as well as GPRS (if not already subscribed).
3. The blackberry service is provisioned to RIM. No mailbox size shall be provisioned as the Blackberry platform (RIM) does not handle mailboxes.

Table 429 – Provision: Act BlackBerry Service– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M - MSISDN C – ICCID Q – ICAP ID |
| KEYWORD | Mandatory | String(30) | The prepaid/hybrid blackberry bundle service (ref DRFS-002) that should be activated e.g. BB30 indicates prepaid blackberry 30 days.   |  |  | | --- | --- | | Keyword (service offering id) | Description | | BB1, BB7, BB30, BB90, BB180 | Prepaid Blackberry | | BS1, BS7, BS30 | Prepaid Social Plan | | BC1, BC7, BC30 | Prepaid Complete Plan | |

### Provision: Suspend the Blackberry service {SUSBLB}

Function Selector: SUSBLB

IDL Function: PerformFunction

This function will suspend the Blackberry service on the Blackberry Internet Service platform. The PPFE calls this function on expiry of a blackberry bundle.

Table 430 – Provision: Suspend BlackBerry Service– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M - MSISDN C – ICCID Q – ICAP ID |
| REASON | Optional | String(30) | Reason description |

### Provision: Remove the Blackberry service {REMBLB}

Function Selector: REMBLB

IDL Function: PerformFunction

This function will remove the Blackberry service on the Blackberry Internet Service platform.

Table 431 - Provision: Remove BlackBery Service– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M - MSISDN C – ICCID Q – ICAP ID |
| REASON | Optional | String(30) | Reason description |

### Provision: Activate the Data and FAX services for a subscriber { ADDTFX }

Function Selector: ADDTFX

IDL Function: PerformFunction

This function will activate the Data and Fax services for a subscriber. The assigned Data and Fax MSISDN’s will be returned to the calling client as additional output attributes (3.6.2).

Table 432 – Provision: Activate Data and Fax – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

Table 433 – Provision: Activate Data and Fax – Additional Out AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| DATA MSISDN | String | Subscriber’s Data MSISDN in Number Plan appropriate format - see [3.2] |
| FAX MSISDN | String | Subscriber’s Fax MSISDN in Number Plan appropriate format - see [3.2] |

### Provision: Change the PINPUK Restricted flag { CHGPPR }

Function Selector: CHGPPR

IDL Function: PerformFunction

This function will allow a user to activate or deactivate the PINPUK Restricted flag for a subscriber.

Table 434 – Provision: Activate / deactivate PINPUK Flag– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| ACTION | Mandatory | String(6) | The action to perform on the flag. The option are:  ‘CREATE’ – creat the flag for the subscriber  ‘DELETE’ – remove the flag from the subscriber |

### Provision: Change Mailbox Password {CMBXPW}

Function Selector: CMBXPW

IDL Function: PerformFunction

This function will change the password on the subscriber’s telephony mailbox.

Table 435 – Provision: Change Mailbox password– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| PASSWORD | Mandatory | String(4) | A string consisting of 4 numeric digits. |
| OLD\_PASSWORD | Optional | String(4) | A string consisting of 4 numeric digits. |

### Provision: Set Friends and Family Service {SETFAF}

Function Selector: SETFAF

IDL Function: PerformFunction

This Tanzania provisioning function administers the Friends and Family Service for postpaid/hybrid/prepaid subscribers (Ref TZFS-157, VCFS-074). If the Friends and Family service is not active it is activated. iCAP will store the friend MSISDN in the supplied position. An MSISDN can be deleted from a position by supplying a blank MSISDN string. The position is mandatory and is specified by the client (e.g. the subscriber uses a USSD string like \*144\*01#0751234567# to set the friend MSISDN 0751234567 into position 1).

The subscriber is allowed to perform a number of free changes of his Friend MSISDNs within a defined period (e.g. 10 changes in 30 days, included in his Vodajamaa subscription on the Unified IN platform). Thereafter each change attracts a charge, and if the change is unsuccessful (e.g. insufficient funds) then the subscriber is notified by SMS.

Table 436 – Provision : Add Friends and Family Service – In Attribute List

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |
| POSITION | String(2) | POSITION = 1,2,3,…,N  The subscriber can have up to N friend MSISDNs (currently 5) each of which can be administered individually |
| MSISDN | String | The Friend/Family MSISDN to be stored in requested position in Number Plan appropriate format - see [3.2] |

SETFAF replaces the old ADDFAF and UPDFAF functions.

### Provision: Deactivate Friends and Family Service {DEAFAF}

Function Selector: DEAFAF

IDL Function: PerformFunction

This Tanzania provisioning function deactivates the Friends and Family (FAF) Service for postpaid/hybrid/prepaid subscribers e.g. the subscriber uses a USSD string like \*144\*06# to deactivate FAF (Ref TZFS-157, VCFS-074).

Table 437 - Provision: Deactivate Friends and Family Service – In Attribute List

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN |

DEAFAF replaces the old DELFAF function.

### Provision: Bar SMS-MO Service {BARSMO}

Function Selector: BARSMO

IDL Function: PerformFunction

This function will bar the SMS-MO service for a prepaid subscriber. The SMS service shall still be seen on the profile of the subscriber but will be barred on the HLR thus preventing SMS’s from being sent until the subscriber has recharged their account.

Table 438 - Provision: Bar SMS-MO Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | |  |  | | --- | --- | | String | See Table 2 | | Subscriber’s MSISDN in 10 digit format [3.2] |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Activate the Vodacom Email Service for a subscriber { ADDEML }

Function Selector: ADDEML

IDL Function: PerformFunction

This function will activate the Vodacom Email Service for a subscriber.

Table 439 - Provision: Activate Vodacom Email Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | **South Africa:**  Only the following Service ID’s provisioning requests shall be  Accepted:  o Prepaid Subscriber: ‘**VEP0’** (Chargeable 1Gib Mailbox), ‘**VEP1’** (free 5MB mailbox),  o Contract subscriber: **‘VEC2’** (free 5MB mailbox),  o TopUp subscriber: **‘VEH1’** (free 5MB mailbox).  **Tanzania:**  All service offering IDs will be accepted |

### Provision: Activate Pending Vodacom Email Service { ACTEML }

Function Selector: ACTEML

IDL Function: PerformFunction

This function will activate the pending Vodacom Email Service for a subscriber.

Table 440 - Provision: Activate Pending Vodacom Email Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Prepaid Subscriber: ‘**VEP0’** (Chargeable 1Gib Mailbox) |

### Provision: Suspend the Vodacom Email Service for a subscriber { SUSEML }

Function Selector: SUSEML

IDL Function: PerformFunction

This function will suspend the Vodacom Email Service for a subscriber.

Table 441 - Provision: Suspend Vodacom Email Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | **South Africa:**  Only the following Service ID’s provisioning requests shall be  Accepted:   * + Prepaid Subscriber:     - * ‘**VEP0’**  (Chargeable 1GB Mailbox)       * ‘**VEP1’** (Free 5MB mailbox)   o Contract subscriber:   * + - * **‘VEC0’** (Free 1GB Mailbox)       * **‘VEC1’** (Chargeable 1GB Mailbox)       * **‘VEC2’** (Free 5MB mailbox)   o TopUp subscriber:   * + - * **‘VEH0’** (Chargeable 1GB Mailbox)       * **VEH1’** (Free 5MB mailbox).   **Tanzania:**  All service offering IDs will be accepted |

### Provision: Unsuspend the Vodacom Email Service for a subscriber { UNSEML }

Function Selector: UNSEML

IDL Function: PerformFunction

This function will unsuspend the Vodacom Email Service for a subscriber.

Table 442 - Provision: Unsuspend Vodacom Email Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | **South Africa:**  Only the following Service ID’s provisioning requests shall be  Accepted:   * + Prepaid Subscriber:     - * ‘**VEP0’**  (Chargeable 1GB Mailbox)       * **‘VEP1’** (Free 5MB mailbox)   o Contract subscriber:   * + - * **‘VEC0’** (Free 1GB Mailbox)       * **‘VEC1’** (Chargeable 1GB Mailbox)       * **‘VEC2’** (Free 5MB mailbox)   o TopUp subscriber:   * + - * **‘VEH0’** (Chargeable 1GB Mailbox)   **- ‘VEH1’** (Free 5MB mailbox).  **Tanzania:**  All service offering IDs will be accepted |

### Provision: Delete the Vodacom Email Service for a subscriber { DELEML }

Function Selector: DELEML

IDL Function: PerformFunction

This function will delete the Vodacom Email Service from a subscriber.

Table 443 - Provision: Delete Vodacom Email Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | **South Africa:**  Only the following Service ID’s provisioning requests shall be  Accepted:   * + Prepaid Subscriber:     - * **‘VEP0’**  (Chargeable 1GB Mailbox)       * **‘VEP1’** (Free 5MB mailbox)   o Contract subscriber:   * + - * **‘VEC0’** (Free 1GB Mailbox)       * **‘VEC1’** (Chargeable 1GB Mailbox)       * **‘VEC2’** (Free 5MB mailbox)   o TopUp subscriber:   * + - * **‘VEH0’** (Chargeable 1GB Mailbox)   **- ‘VEH1’** (Free 5MB mailbox).  **Tanzania:**  All service offering IDs will be accepted |

### Provision: Remove Pending Vodacom Email Service for a subscriber { REMEML }

Function Selector: REMEML

IDL Function: PerformFunction

This function will delete the pending Vodacom Email Service from a subscriber.

Table 444 - Provision: Remove Pending Vodacom Email Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Prepaid Subscriber: **‘VEP0’**  (Chargeable 1GB Mailbox) |

### Provision: Activate Vodacom Push Email Service for a subscriber { ADDPEM }

Function Selector: ADDPEM

IDL Function: PerformFunction

This function will activate the Vodacom Push Email Service for a subscriber.

Table 445 - Provision: Activate Vodacom Push Email Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | **South Africa:**  Only the following Service ID’s provisioning requests shall be  Accepted:  o Prepaid Subscriber: ‘**VPP’** (All Hours), ‘**VPP1’** (Business Hours),  o Contract subscriber: ‘**VPC’** (All Hours), ‘**VPC1’** (Business Hours),  o TopUp subscriber:‘**VPH’** (All Hours), ‘**VPH1’** (Business Hours), |

### Provision: Migrate Vodacom Push Email Service for a subscriber { MIGPEM }

Function Selector: MIGPEM

IDL Function: PerformFunction

This function will activate the Vodacom Push Email Service for a subscriber.

Table 446 - Provision: Activate Vodacom Push Email Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | **South Africa:**  Only the following Service ID’s provisioning requests shall be  Accepted:  o Prepaid Subscriber: ‘**VPP’** (All Hours), ‘**VPP1’** (Business Hours),  o Contract subscriber: ‘**VPC’** (All Hours), ‘**VPC1’** (Business Hours),  o TopUp subscriber:‘**VPH’** (All Hours), ‘**VPH1’** (Business Hours), |

### Provision: Delete the Vodacom Email Service for a subscriber { DELPEM }

Function Selector: DELPEM

IDL Function: PerformFunction

This function will delete the Vodacom Email Service from a subscriber.

Table 447 - Provision: Delete Vodacom Push Email Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | **South Africa:**  Only the following Service ID’s provisioning requests shall be  Accepted:  o Prepaid Subscriber: ‘**VPP’** (All Hours), ‘**VPP1’** (Business Hours)  o Contract subscriber: ‘**VPC’** (All Hours), ‘**VPC1’** (Business Hours)  o TopUp subscriber:‘**VPH’** (All Hours), ‘**VPH1’** (Business Hours) |

### Provision: Reserve MSISDN for Prepaid Subscriber {RESMSI}

Function Selector: RESMSI

IDL Function: PerformFunction

This function will attempt to reserve the requested MSISDN (if supplied) or an MSISDN on the desired NDC (if supplied), or else will return an amount of available MSISDNs to the calling client. The amount is configurable e.g. 5 numbers. The function will return the first available MSISDN found, if the NDC or desired MSISDN is not specified. The reserved MSISDN can then be used in the activation of an MSISDNless Starter Pack or Deleted Starter Pack with pseudo number (ref function ACTPPS). The reserved MSISDN shall be reserved for a configurable period of time (default 15 minutes).

Table 448 - Provision: Reserve MSISDN for Prepaid Subscriber – In AttributeList

| Attribute Name | Mandatory/ Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| NDC | Optional | String(3) | The NDC shall be a 3-digit code (082, 072, etc). |
| MSISDN | Optional | String | MSISDN in Number Plan appropriate format - see [3.2] |
| ICCID | Optional | Straing(19) | The subscribers ICCID in 19 digit format. |

Table 449 - Reserved MSISDN’s – Out AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| MSISDN\_1 | String | The MSISDN returned in 10 digit format e.g. 0829801234 or MSISDN in Number Plan appropriate format - see [3.2] |
| MSISDN\_2 | String | The MSISDN returned in 10 digit format e.g. 0829801234 or MSISDN in Number Plan appropriate format - see [3.2] |
| MSISDN\_3 | String | The MSISDN returned in 10 digit format e.g. 0829801234 or MSISDN in Number Plan appropriate format - see [3.2] |
| MSISDN\_4 | String | The MSISDN returned in 10 digit format e.g. 0829801234 or MSISDN in Number Plan appropriate format - see [3.2] |
| MSISDN\_5 | String | The MSISDN returned in 10 digit format e.g. 0829801234 or MSISDN in Number Plan appropriate format - see [3.2] |

### Provision: Activate MSISDNless Starter Pack Request {ACTPPS}

Function Selector: ACTPPS

IDL Function: PerformFunction

This function will activate an MSISDNless SIM starterpack (Starter Pack with Pseudo number). The pseudo number shall be entered as the reference to the subscriber. The MSISDN input attribute is either an MSISDN that has been reserved from the function RESMSI, or the parameter is not used. If the MSISDN is supplied, that MSISDN will be used in the activation of the starter pack. The activation will fail if the supplied MSISDN is no longer available. If the MSISDN parameter is not used, iCAP will assign an MSISDN. The assigned T11\_MSISDN will be returned as an output attribute.

The agent executing the activation (defined in AGENT MSISDN) is checked against the activation agents registered on iCAP. Activation Agents are added via iCAP Security/Admin Menu (Add Activation Agent).

Note in TZN if the ICCID belongs to a new Dynamic Numberless Starter Pack, then a PRPPSP request must be logged.

Table 450 - Provision: Activate MSISDNless Starter Pack Request – In AttributeList

| Attribute Name | Mandatory/ Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| MSISDN | Optional | String | Subscriber’s Telephony MSISDN in 10 digit format or or MSISDN in Number Plan appropriate format - see [3.2] |
| **PUK1** | Optional | String(10) | Subscribers PUK 1 number on the SIM |
| AGENT ID | Optional | String | Agent ID (DRC & TZN) e.g. ICAP\TJ |
| AGENT MSISDN | Optional | String(12) | Agent MSISDN (DRC & TZN) |
| AGENT PIN | Optional | String | AGENT PIN e,g. 12345 |

Table 451 - Provision: Activate MSISDNless Starter Pack Request – Out AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| T11\_MSISDN | String | See Table 2 |

### Provision: Register Adult Content Indicator {REGADC}

Function Selector: REGADC

IDL Function: PerformFunction

This function registers the subscriber for Adult Content. Subscribers must usually be provisioned with information on their first name, last name, gender, date of birth, ID number and ID number type – collectively known as the party record information. If no party record information exists for the subscriber, information supplied as parameters for this request is used to provision the subscriber. If party record information already exists for the subscriber, the information supplied as parameters for this request must exactly match what already exists – REGADC may not alter existing party record information.

In addition to party record information, this function supplies a value for the ADC ‘age category’ indicator (mandatory parameter) and a value for the MIN ‘validate with service provider’ indicator (optional parameter). The two parameters set the adult content subscriber attribute and the phone in use by a minor attribute respectively.

When changing to certain age categories, it is not necessary to supply party record information, and the party record detail parameters may be left as null.

Table 452 - Provision: Activate MSISDNless Starter Pack Request – In AttributeList

| Attribute Name | Mandatory/ Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| FIRST NAME | Optional | String(40) | Subscriber’s first name – must be alphabetic, white space or null |
| LAST NAME | Optional | String(40) | Subscriber’s last name – must be alphabetic, white space or null |
| GENDER | Optional | String(1) | Subscriber’s gender – ‘F’, ‘M’ or null |
| BIRTH DATE | Optional | String | Subscriber’s date of birth – follows conventional date string format or null |
| ID | Optional | String(20) | Subscriber’s ID - a valid South African ID number or a passport (alphanumeric) or null |
| ID TYPE | Optional | String(1) | Subscriber’s ID type – ‘N’ for National ID (SA ID) or ‘P’ for Passport or null |
| ADULT CONTENT INDICATOR | Mandatory | String(2) | Values:  00 All Ages – i.e. subscriber should **not** receive adult content (does not require party details to be supplied)  01 Age Restricted – i.e. subscriber should receive content specified for age 13 and younger (requires party details to be supplied)  04 Subscriber should receive all content, including adult content (requires party details to be supplied) |
| VALIDATE WITH SERVICE PROVIDER INDICATOR | Optional | String(7) | Possible values:  NULL Permit changes to ADULT CONTENT and VALIDATE WITH SERVICE PROVIDER without restriction  ‘MINOR’ Permit changes to ADULT CONTENT and VALIDATE WITH SERVICE PROVIDER only when the identity of the subscriber is validated by the service provider  ‘DEFAULT’ Each ADULT CONTENT setting has a default VALIDATE WITH SERVICE PROVIDER setting; use that default for this subscriber, given the supplied ADULT CONTENT setting |

### Provision: Maintain Adult Content Indicator {MODADC}

Function Selector: MODADC

IDL Function: PerformFunction

This function may only be performed by subscriber’s who have registered for adult content with their SP’s - i.e the subscriber attribute ADC exists – and who does not have the subscriber attribute Phone used by minor – i.e. subscriber attribute MINOR – set. This function will update the adult content subscriber attribute.

If the subscriber was previously registered for adult content using REGADC, but did not supply party record information at that time, then use of MODADC function may return an error for certain values of the ADULT CONTENT INDICATOR parameter. In this instance, use REGADC to register the subscriber with party record information, or use REGSUB to add party record information.

Table 453 - Provision: Activate MSISDNless Starter Pack Request – In AttributeList

| Attribute Name | Mandatory/ Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| ADULT CONTENT INDICATOR | Mandatory | String(2) | Values:  ’00’ All Ages – i.e. subscriber should **not** receive adult content  ‘01’ Age Classified – i.e. subscriber should receive content appropriate to the age of 13 or younger  ‘04’ Subscriber should receive all content, including adult content |
| VALIDATE WITH SERVICE PROVIDER INDICATOR | Optional | String(7) | Values:  NULL Permit changes to ADULT CONTENT and VALIDATE WITH SERVICE PROVIDER without restriction  ‘MINOR’ Permit changes to ADULT CONTENT and VALIDATE WITH SERVICE PROVIDER only when the identity of the subscriber is validated by the service provider  ‘DEFAULT’ Each ADULT CONTENT setting has a default VALIDATE WITH SERVICE PROVIDER setting; use that default for this subscriber, given the supplied ADULT CONTENT setting |

It is an error to use MODADC if the VALIDATE WITH SERVICE PROVIDER indicator was previously set to ‘MINOR’.

### Provision: Activate the Ringback Tones Service for a subscriber { ADDRBT }

Function Selector: ADDRBT

IDL Function: PerformFunction

This function will add the RBT Service to a Subscriber’s Profile (Jinny Tanzania).

Table 454 - Provision: Activate RBT Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| USERNAME | Optional | String | Jinny username |
| LANGUAGE | Optional | String | Jinny language |
| ACCOUNTTYPE | Optional | String | Jinny account type |
| CORPORATEID | Optional | String | Jinny corporate id |
| GROUPID | Optional | String | Jinny group id |
| ACCOUNTID | Optional | String | Jinny account id |
| REVERSE RBT | Optional | String | Values ‘Y’ or ‘N’ – if not supplied will be defaulted to ‘N’ |

**PLEASE NOTE:** No SMS will be sent for this function.

### Provision: Deactivate the Ringback Tones Service for a subscriber { REMRBT }

Function Selector: REMRBT

IDL Function: PerformFunction

This function will remove the RBT service from a Subscriber’s Profile (Jinny Tanzania).

Table 455 - Provision: Suspend RBT Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| REVERSE RBT | Optional | String | Values ‘Y’ or ‘N’ – if not supplied will be defaulted to ‘N’ |

**PLEASE NOTE:** No SMS will be sent for this function.

### Provision: Activate WIG Service for a Subscriber { ADDWIG }

Function Selector: ADDWIG

IDL Function: PerformFunction

This function will add the WIG service to a Subscriber’s Profile. Process synchronously.

Table 456 - Provision: Add WIG Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) , E (SP ID – Reference Number) |

### Provision: Add Activation Agent {ADDAGT}

Function Selector: ADDAGT

IDL Function: PerformFunction

This function will create a new Agent on iCAP.

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| AGENT MSISDN | Mandatory | String | MSISDN in 10 digit format |
| AGENT NAME | Mandatory | String | Agent Name |
| REGION | Mandatory | String | Region |
| ENTITY TYPE | Mandatory | String | Entity Type |
| ENTITY | Mandatory | String | Entity |
| TITLE | Mandatory | String | Title |
| INITIALS | Mandatory | String | Initals |
| FIRST NAME | Mandatory | String | First Name. |
| SURNAME | Mandatory | String | Surname |
| NATIONAL ID | Mandatory | String | National ID Number |
| DOB | Mandatory | String | DD/MM/YYYY |
| STREET NAME | Mandatory | String | Street Name |
| TOWN | Mandatory | String | Town. |

Validation Rules:

1. Verify MSISDN is related to an active agent, it yes do no fail request but proceed to next validation.
2. Verify MSISDN is active subscriber.
3. Create user in case verification at step 1 evaluated to FALSE AND verification at step 2 evaluated to TRUE. Validation rules on REGION,ENTITY\_TYPE,ENTITY shall apply as per the existing bulk load agent function.
4. Assign function group ‘NEW\_REGISTRATION\_MENU’ group to user after user create @ step 3. (Initial list TBC)

Response:

Request status shall be SUCCESS if user has been created and FAILURE if user has not been created and Response message shall always include 2 tags respectively for:

|  |  |
| --- | --- |
| **RESPONSE TAGS** | **POSSIBLE VALUES** |
| ACTIVE AGENT YN | YES – If verification at step 1 evaluated to TRUE  NO – If verification at step 1 evaluated to FALSE |
| ACTIVE SUBSCRIBER YN | YES – If verification at step 2 evaluated to TRUE  NO – If verification at step 2 evaluated to FALSE |

### Provision: Update Activation Agent {UPDAGT}

This function is not available.

### Provision: Deregister Activation Agent {DRGAGT}

This function is not available.

### Provision: Register Subscriber information – Legal Requirements { REGLGL }

This function is not available.

### Provision: Create Registered Subscriber – Legal Requirements { CRERGL } DRC Only

Function Selector: CRERGL

IDL Function: ExecFunction

This function will legally register a subscriber of any payment type (only with critical/mandatory fields).

Table 457: Create Registered Subscriber - InAttributeList

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | MSISDN, ICCID (MSISDN is also used for pseudonumber) |
| AGENT ID or AGENT MSISDN | Mandatory | String | Either one of the 2 parameters must to be supplied and they may not be blank (empty). |
| REQUEST TYPE | Mandatory | String | CRERGL |
| USER SEQ | Mandatory | String | Value returned by PerformLogon |
| ORIGIN ID | Mandatory | String | 2 character origin id e.g.  GV – Grapevine IV – IVR US - USSD |
| FORM REFERENCE | Mandatory | String | Reference number on the registration form |
| COMPANY NAME | Optional | String | Name of the company (if this is a business registration), else NULL. |
| ADDRESS\_TYPE | Mandatory | String | ‘S’ for street address, ‘P’ for postal address |
| NATIONALITY | Mandatory | String |  |
| JOB\_TITLE | Optional | String | Subscriber’s job title |
| EXTERNAL\_POSTAL\_CODE | Optional | String | If required or available |
| ID\_DATE\_TO | Optional | String | Never used for provisioning, only used for querying (out parameter). |
| ROLE\_DATE\_TO | Optional | String | Never used for provisioning, only used for querying (out parameter). |
| CONTACT\_NUM\_DATE\_TO | Optional | String | Never used for provisioning, only used for querying (out parameter). |
| T\_PARTY | Mandatory | Strcuture | Refer to Table 11 – Personal Information (Party) Structure |
| PUK1 | Optional | String | If SUB ID belongs to a Starter Pack – PUK1 is mandatory and must be validated. If SUB ID belongs to active subscriber then PUK1 is optional and not validated. |
| MPESA\_ACC\_YN | Optional | String | Indicates choice for subscriber to have MPSEA account on G2.  ‘Y’ creates Customer on G2 by sending CREMMS command.  Default if not supplied will be ‘N’, no CREMMS command. |
| EXPIRY DATE | Optional | String | YYYY-MM-DD. |

### Provision: Change of Ownership – Legal Requirements { CHORGL }

This function is not available.

### Provision: Update Subscriber information – Legal Requirements { UPDRGL } DRC Only

Function Selector: UPDRGL

IDL Function: ExecFunction

This function will update any subscriber (of any payment type) legal information that is currently not captured or outdated.

See Table 457 for the InAttributeList – when using this function all the mandatory fields are still required including any optional fields.

### Provision: Deregister Subscriber – Legal Requirements {DRGSUB }

Function Selector: DRGSUB (DRC Only)

IDL Function: PerformFunction

This function will deregister a prepaid subscriber removing the REG\_STATE subscriber attribute and logging a DRGSUB request type.

Table 458 - Provision: Deregister Subscriber - InAttributeList

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | MSISDN |
| AGENT MSISDN | Optional | String | Agent MSISDN. |

### Provision : Redeem Prepaid Loyalty points {REDPLP}

Function Selector: REDPLP

IDL Function: PerformFunction

This function will redeem Prepaid Loyalty points. The redemption of talking points for handsets (category codes HS01, HS02 and HS03) are excluded.

Table 459 - Provision: Redeem Prepaid Loyalty points - InAttributeList

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | MSISDN |
| REDEMPTION\_SERVICE\_ID | Mandatory | String | Service Offering / Category Code for the redemption item, e.g SM03 or TD02  See values for Grand Prize Draw below |
| REASON\_CODE | Mandatory | String | Reason code for request. See 5.16 iCAP Reasons |
| REQUESTED\_BY | Mandatory | String | Party requesting the action e.g Customer. See 5.15 Requesting Parties |
| EXTERNAL\_REF | Mandatory | String | Reference unique to the external system for this function |
| IMEI | Optional | String | Field for IMEI for a Handset redemption only |
| REFERENCE | Conditional | String | The Reference/Quote number of the reservation that was required for the handset redemption. Only required for handset redemptions. |
| RETAIL\_REDEMPTION | Optional | String | Information about retail redemptions e.g. vouchers, games and music. Must be provided in the format Redemption Category|Type|Description |

Table 460 – Grand Prize Draw Values

| REDEMPTION\_SERVICE\_ID value for Grand Prize Draw | Description |
| --- | --- |
| GP1 | 1 Grand Prize Entry |
| GP2 | 2 Grand Prize Entries |
| GP5 | 5 Grand Prize Entries |
| GP10 | 10 Grand Prize Entries |
| GP50 | 50 Grand Prize Entries |
| GP100 | 100 Grand Prize Entries |

* **Request result** (Success, or exception) like REDELP below.

### Provision : Redeem Loyalty points {REDELP} {Tanzania only}

Function Selector: REDELP

IDL Function: PerformFunction

This function will redeem Loyalty points.

Table 461 - Provision: Redeem Prepaid Loyalty points - InAttributeList

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUBSCRIBER\_ID | Mandatory | String | See *Table 2* |
| SUBSCRIBER\_ID\_TYPE | Mandatory | String | MSISDN |
| REDEMPTION\_SERVICE\_ID | Mandatory | String | Service Offering / Category Code for the redemption item, e.g A015 or BM03. See values for Grand Prize Draw as per the REDPLP function (Table 460) above |
| REASON\_CODE | Mandatory | String | Reason code for request. See 5.16 iCAP Reasons |
| REQUESTED\_BY | Mandatory | String | Party requesting the action e.g Customer. See 5.15 Requesting Parties |
| EXTERNAL\_REF | Mandatory | String | Reference unique to the external system for this function |

* **Request result** (Success, or exception)

The request may return one of the following error conditions:

|  |  |
| --- | --- |
| Error condition | Meaning |
| No such adjustment type | Reason code supplied is not recognised |
| No such reward type | The reward type supplied is not recognised |
| Adjustment would decrease Loyalty Points below 0 | Redeeming a reward of this type would reduce the subscriber’s accumulated points to a negative balance, which violates a business rule |
| Reward external ID is not unique | External reference supplied to this function is not a unique number in this system |
| Excessive rewards of this type have been allocated to the subscriber | A limit on the number of rewards of the type requested has been reached, and no more may be allocated |

### Provision : Register/Update subscriber for Prepaid Loyalty {REGPLS}

Function Selector: REGPLS

IDL Function: ExecFunction

This function will register a subscriber for Prepaid Loyalty.

Table 462 - Provision: Register a Prepaid Loyalty subscriber - InAttributeList

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUBSCRIBER\_ID | Mandatory | String | See *Table 2* |
| SUBSCRIBER\_ID\_TYPE | Mandatory | String | MSISDN |
| T\_Party | Mandatory | Structure | Party Structure |

Table 463: tParty structure

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| ICAP\_ID | Optional | String | The Party Identifier for the subsriber – not used in provisioning |
| ICAP\_ROLE | Optional | String | The party identifier type – not used in provisioning |
| TITLE | Optional | String | Values defined in section 0 |
| SURNAME | Mandatory | String | Maximum 64 characters |
| FIRSTNAME | Optional | String | Maximum 20 characters |
| INITIALS | Optional | String | Maximum 4 characters |
| LANGUAGE | Optional | String | Values defined in HTTP Highspeed Interface & Examples  =====================================================================  | Http Request details for ExecFunction: (maps to HighspeedExt.idl) |  =====================================================================  The following maps to Isis::AttributeList  -----------------------------------------  attributeName  attributeValue  The following maps to HighSpeed::ServiceActionList (the 0 increments if more than one in the list)  --------------------------------------------------  sa\_0\_actionType  sa\_0\_currentSoId  sa\_0\_newSoId  sa\_0\_sid1  sa\_0\_sid1Type  sa\_0\_actionType  sa\_0\_sid2  sa\_0\_sid2Type  sa\_0\_sid3Type  sa\_0\_sid4  sa\_0\_sid4Type  The following maps to HighSpeed::ActionAttributeList (the 0 increments if more than one in the list)  ----------------------------------------------------  aa\_0\_satId  aa\_0\_currentSacId  aa\_0\_newSacId  aa\_0\_dateFrom  aa\_0\_dateTo  The following maps to HighSpeed::Party (the 0 increments if more than one in the list)  --------------------------------------  p\_seq  p\_icapId  p\_icapRole  p\_titleId  p\_surname  p\_firstName  p\_initials  p\_langCode  p\_birthDate  p\_activeYN  p\_listedYN  p\_gender  \*\* maps to Highspeed::PartyContactList  p\_cl\_0\_seq  p\_cl\_0\_addressInd  p\_cl\_0\_fromDate  p\_cl\_0\_address1  p\_cl\_0\_address2  p\_cl\_0\_address3  p\_cl\_0\_suburb  p\_cl\_0\_town  p\_cl\_0\_toDate  p\_cl\_0\_postalCode  p\_cl\_0\_countryId  p\_cl\_0\_region  \*\* maps to Highspeed::PartyIdList  p\_il\_0\_seq  p\_il\_0\_countryId  p\_il\_0\_idNumber  p\_il\_0\_idType  \*\* maps to Highspeed::PartyRoleList  p\_rl\_0\_seq  p\_rl\_0\_roleType  p\_rl\_0\_suSeq  \*\* maps to Highspeed::PartyContactNumList  p\_cnl\_0\_seq  p\_cnl\_0\_countryCode  p\_cnl\_0\_areaNetCode  p\_cnl\_0\_dialNum  p\_cnl\_0\_type  =============  | Examples: |  =============  PerformLogOn  ------------  http://localhost:8080/highspeed-servlet/servlet/highspeed  ?action=PerformLogOn  &originId=TC  &username=opswebtest  &password=stormers  Success Return xml result example:  ----------------------------------  <?xml version="1.0" encoding="ISO-8859-1"?>  <icap-response>  <header>  <status>SUCCESS</status>  </header>  <body>  <attributes>  <attribute><name>userId</name><value>815</value></attribute>  <attribute><name>securityKey</name><value>opswebtest1324457490087</value></attribute>  </attributes>  </body>  </icap-response>  QueryFunction[QRGINF]  ---------------------  http://localhost:8080/highspeed-servlet/servlet/highspeed  ?action=QueryFunction  &originId=TC  &userId=815  &securityKey=opswebtest1272974388110  &functionSelector=QRGINF  &attributeName=SUB ID  &attributeValue=0810375999  &attributeName=SUB ID TYPE  &attributeValue=M  Success Return xml result example:  ----------------------------------  <?xml version="1.0" encoding="ISO-8859-1"?>  <icap-response>  <header>  <status>SUCCESS</status>  </header>  <body>  <attributes>  <attribute>  <name>SUB ID</name>  <value>0810375999</value>  </attribute>  <attribute>  <name>SUB ID TYPE</name>  <value>M</value>  </attribute>  </attributes>  <serviceActions/>  <actionAttributes/>  <subAttributes/>  <party>  <seq>0</seq>  <icapId>0</icapId>  <icapRole/>  <titleId/>  <surname/>  <firstName/>  <initials/>  <langCode/>  <birthDate/>  <activeYN/>  <listedYN/>  <gender/>  <partyContactLists/>  <partyIdLists/>  <partyRoleLists/>  <partyContactNumLists/>  </party>  <requestResults>  <requestResult>  <resultName>STATUS</resultName>  <resultValue>NONE</resultValue>  </requestResult>  </requestResults>  </body>  </icap-response>  ExecFunction[CRERGL]  --------------------  http://localhost:8080/highspeed-servlet/servlet/highspeed  ?action=ExecFunction  &originId=TC  &userId=815  &securityKey=opswebtest1273121272110  &functionSelector=CRERGL  &attributeName=FORM REFERENCE  &attributeValue=321  &attributeName=COMPANY NAME  &attributeValue=my shop cc  &attributeName=ADDRESS\_TYPE  &attributeValue=0  &attributeName=NATIONALITY  &attributeValue=N  &attributeName=JOB\_TITLE  &attributeValue=Manager  &attributeName=EXTERNAL\_POSTAL\_CODE  &attributeValue=1111  &attributeName=ID\_DATE\_TO  &attributeValue=  &attributeName=ROLE\_DATE\_TO  &attributeValue=  &attributeName=SUB ID  &attributeValue=0810375999  &attributeName=SUB ID TYPE  &attributeValue=M  &attributeName=CONTACT\_NUM\_DATE\_TO  &attributeValue=  &attributeName=AGENT\_ID  &attributeValue=ICAP\TJ  &p\_seq=0  &p\_icapId=3054  &p\_icapRole=L  &p\_titleId=Mr  &p\_surname=Josefs  &p\_firstName=Jan  &p\_initials=JJ  &p\_langCode=ENG  &p\_birthDate=2001-01-01  &p\_activeYN=N  &p\_listedYN=N  &p\_gender=M  &p\_cl\_0\_seq=0  &p\_cl\_0\_addressInd=S  &p\_cl\_0\_fromDate=2009-01-01  &p\_cl\_0\_address1=Adr11  &p\_cl\_0\_address2=Adr22  &p\_cl\_0\_address3=Adr33  &p\_cl\_0\_suburb=Sub  &p\_cl\_0\_town=Twn  &p\_cl\_0\_toDate=  &p\_cl\_0\_postalCode=1100  &p\_cl\_0\_countryId=CD  &p\_cl\_0\_region=Reg  &p\_il\_0\_seq=0  &p\_il\_0\_countryId=CD  &p\_il\_0\_idNumber=243810300033333  &p\_il\_0\_idType=B  &p\_rl\_0\_seq=0  &p\_rl\_0\_roleType=L  &p\_rl\_0\_suSeq=761  &p\_cnl\_0\_seq=0  &p\_cnl\_0\_countryCode=1234  &p\_cnl\_0\_areaNetCode=21  &p\_cnl\_0\_dialNum=123456789  &p\_cnl\_0\_type=C  [ACTPPS]  -------  http://int-drc:8080/highspeed-servlet/servlet/highspeed?action=PerformFunction&originId=TC&userId=815&securityKey=tj1296728964487&functionSelector=ACTPPS&attributeName=SUB ID&attributeValue=110250001992&attributeName=SUB ID TYPE&attributeValue=M  Error Examples:  --------------  <?xml version="1.0" encoding="ISO-8859-1"?>  <icap-response>  <header>  <status>FAILURE</status>  <error-code/>  <error-group>APPLICATION\_ERROR</error-group>  <error-message>Required parameter &apos;functionSelector&apos; is missing.</error-message>  </header>  <body>  <attributes/>  </body>  </icap-response>  <?xml version="1.0" encoding="ISO-8859-1"?>  <icap-response>  <header>  <status>FAILURE</status>  <error-code>Subscriber with ID # not found.</error-code>  <error-group>DATABASE\_ERROR</error-group>  <error-message>Subscriber with ID 243110250001992 not found.</error-message>  </header>  <body>  <attributes/>  </body>  </icap-response>  Language Options |
| BIRTHDATE | Optional | String | Subscriber’s date of birth e.g. 1965-01-01 |
| ACTIVEYN | Optional | String | Null |
| LISTED | Optional | String | Listed in national directory. Values: ‘Y’ or ‘N’ |
| GENDER | Optional | String | Values: ‘F’ or ‘M’ |
| CONTACTLIST | Mandatory | Structure | Refer toTable 464 - Provision : Register Loyalty Subscriber – ContactList (tPartyContactList), one or more contacts can be created (Postal address is mandatory) |
| IDLIST | Mandatory | Structure | Refer toTable 465 - Provision : Register Loyalty Subscriber – IDList (tPartyIdList), one or more ID’s can be created. |
| ROLELIST | Mandatory | Structure | Refer toTable 466 - Provision : Register Loyalty Subscriber – RoleList (tPartyRoleList), one or more roles can be created |
| CONTACTNUMLIST | Optional | Structure | Refer to Table 467 - Provision : Register Loyalty Subscriber – ContactNumList (tPartyContactNumList), one or more contact numbers can be created. |

Table 464 - Provision : Register Loyalty Subscriber – ContactList (tPartyContactList)

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SEQ | Optional |  | Null |
| STREET\_POSTAL\_IND | Mandatory | String | Values: ‘P’ – Postal, ‘S’ – Street, ‘D’ – Delivery. If the same address is used for more than one address type, send a comma delimited list of indicators e.g. for postal & street address ‘P,S’. For Delivery & Postal ‘D,P’ |
| FROM\_DATE | Mandatory | String | Date from which this address is valid for the subscriber. Ex. 1998-10-28 |
| STREET1 | Mandatory | String | Maximum 100 characters |
| STREET2 | Optional | String | Maximum 100 characters |
| STREET3 | Optional | String | Maximum 100 characters |
| SUBURB | Mandatory | String | Maximum 60 characters |
| CITY | Mandatory | String | Maximum 40 characters |
| TO\_DATE | Optional | String | Date until this address is valid for the subscriber. Ex. 1998-10-28 |
| POSTALCODE | Mandatory | String | Maximum 10 characters |
| COUNTRY\_ID | Mandatory | String | ISO Country Code |
| REGION | Null | String | Province, state or region in which the town of the subscriber is located. Region is derived from the post code submitted by the user. |

Table 465 - Provision : Register Loyalty Subscriber – IDList (tPartyIdList)

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SEQ | Optional |  | Null |
| ID­\_COUNTRY | Mandatory | String | ID Nationality.  **Optional if ID\_TYPE = ‘@’** |
| ID­\_NUMBER | Mandatory | String | Maximum 40 characters |
| ID\_­TYPE | Mandatory | String | Values: ‘N’ – SA ID document, ‘P’ – passport or ‘B’ – Business Registration number, ‘@’ – Email address |

Table 466 - Provision : Register Loyalty Subscriber – RoleList (tPartyRoleList)

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SEQ | Optional |  | Null |
| ROLE\_TYPE | Mandatory | String | Values: ‘Y’ – Loyalty Subscriber (and ‘S’ if S existed before) |
| SU\_SEQ | Optional |  | Null |

Table 467 - Provision : Register Loyalty Subscriber – ContactNumList (tPartyContactNumList)

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SEQ | Optional |  | Null |
| COUNTRY \_CODE | Mandatory | String | Dialling code for the country in which the number is located e.g. ‘27’ for South Africa, ‘44’ for the United Kingdom  Maximum 15 characters |
| AREA\_NETWORK\_CODE | Mandatory | String | Dialling code for the national area in which the number is located e.g. ‘11’ for Johannesburg or ‘21’ for Cape Town or ‘82’ or ‘72’ for Vodacom  Maximum 15 characters |
| DIAL\_NUMBER | Mandatory | String | Dialled service number e.g. ‘4256160’ or if mobile phone entered, e.g. 0829805125 - ‘9805125’  Maximum 15 characters |
| TYPE | Mandatory | String | Maximum 1 character |

**Request result** (Success or Logged or Pending)

### Provision: Migrate Roaming service to Travel Saver Roaming { MTOVPR }

Function Selector: MTOVPR

IDL Function: PerformFunction

This function will attempt to change the subscriber’s roaming status to Travel Saver Roaming.

The following business rule applies contract subscribers:

* A contract subscriber must be a Roaming Class subscriber to change to Travel Saver Roaming status. If the contract subscriber is not a Roaming class subscriber an error will be generated.
* For Prepaid and Topup susbcribers, Vodafone World will be activated if not active when this function is called.

Table 468 - Provision: Migrate to Travel Saver Roaming Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Migrate Roaming service from Travel SaverRoaming { MFRVPR }

Function Selector: MFRVPR

IDL Function: PerformFunction

This function will change the subscriber’s roaming status to Vodafone World Roaming, removing the Travel Saver Roaming status.

The subscriber has to be in the following state:

* Be a Roaming class subscriber with Travel Saver Roaming active.

Table 469 - Provision: Migrate from Travel Saver Roaming Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Call Limit Lock Parameter Rules and Screen Recommendations

The client GUI shall perform validations on the Call Limit Lock parameters before submitting the actions to the HighSpeed interface. The HighSpeed interface shall perform a set of validation too, in order to ensure that the action has the best possible chance of being successful on the Eppix system.

Please refer to section 5.15 for more information on the Call Limit Lock Parameter validations and the GUI display recommendations.

### Provision: Insert Call Limit Lock values for a Subscriber { INSCLL }

Function Selector: INSCLL

IDL Function: PerformFunction

This function is limited to VSP contract subscribers.

This function will insert a Voluntary Call Limit Lock value to the subscriber’s profile in the VSP Eppix system.

The query QCLVAS shall be performed before this request to retrieve the subscriber current call limit settings, and the Call Limit request types allowed.

The comment lines in the request will create a scratchpad entry into the Eppix system.

The validations listed in 3.6.88 must be performed on the input parameters before the request is submitted:

* The QCLVAS return parameter DISPLAY\_ADD\_RECORD shall have a value of true (case insensitive).
* This function shall only be applicable to subscriber that have a mandatory amount of –1.
* Parameters that are not altered shall have the values as received from the QCLVAS query.

The function shall return an appropriate error message if a validation rule is broken. Error messages such as the following shall be sent:

* “Parameter <param name> violates validation rules”.
* The function is not permitted according to the QCLVAS DISPLAY parameters.

Table 470 - Provision: Insert Call Limit Lock values – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| ACTIVATION\_DATE | Mandatory | String | Date the CLL is to be active from. Format YYYY-MM-DD |
| NOTIFY\_METHOD | Mandatory | String | The notification method. E, F or S for Email, Fax or SMS respectively |
| NOTIFY\_VALUE | Mandatory | String | The notification destination. If S, the MSISDN must be a valid Vodacom MSISDN. |
| FIRST\_NOTICE | Mandatory | String | e.g. 50 – percentage of limit reached |
| SECOND\_NOTICE | Mandatory | String | e.g. 70 – percentage of limit reached |
| THIRD\_NOTICE | Mandatory | String | e.g. 90 – percentage of limit reached |
| FIRST\_NOTICE\_FREQ | Mandatory | String | ‘1’ (one) |
| SECOND\_NOTICE\_FREQ | Mandatory | String | ‘1’ (one) |
| THIRD\_NOTICE\_FREQ | Mandatory | String | ‘1’ (one) |
| VAS\_TYPE | Mandatory | String | Specifies the VAS service type – either notify only (CMAN) or soft lock (CLCK) |
| VOL\_AMOUNT | Mandatory | String | The amount that the VTL is to be set to in Rands and cents e.g. 321.34 |
| COMMENT\_LINE1 | Mandatory | String | Scratchpad entry Line 1 - Comment about the action |
| COMMENT\_LINE2 | Optional | String | Scratchpad entry Line 2 |
| COMMENT\_LINE3 | Optional | String | Scratchpad entry Line 3 |

### Provision: Update Call Limit Lock values for a Subscriber { UPDCLV }

Function Selector: UPDCLV

IDL Function: PerformFunction

This function is limited to VSP contract subscribers.

This function will update Call Limit Lock values on a subscriber’s profile in the VSP Eppix system.

The query QCLVAS shall be performed before this request to retrieve the subscriber current call limit settings, and the Call Limit request types allowed.

The validations listed in 3.6.88 must be performed on the input parameters before the request is submitted:

* The QCLVAS return parameter DISPLAY\_UPDATE\_RECORD shall have a value of true (case insensitive).
* This function shall only be applicable to subscriber that have a mandatory amount of greater that zero(0).
* Parameters that are not altered shall have the values as received from the QCLVAS query.

The function shall return an appropriate error message if a validation rule is broken. Error messages such as the following shall be sent:

* “Parameter <param name> violates validation rules”.
* The function is not permitted according to the QCLVAS DISPLAY parameters.

Table 471 - Provision: Insert Call Limit Lock values – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| ACTIVATION\_DATE | Mandatory | String | Date the CLL is to be active from. Format YYYY-MM-DD |
| NOTIFY\_METHOD | Mandatory | String | The notification method. E, F or S for Email, Fax or SMS respectively |
| NOTIFY\_VALUE | Mandatory | String | The notification destination. If S, the MSISDN must be a valid Vodacom MSISDN. |
| FIRST\_NOTICE | Mandatory | String | e.g. 50 – percentage of limit reached |
| SECOND\_NOTICE | Mandatory | String | e.g. 70 – percentage of limit reached |
| THIRD\_NOTICE | Mandatory | String | e.g. 90 – percentage of limit reached |
| FIRST\_NOTICE\_FREQ | Mandatory | String | ‘1’ (one) |
| SECOND\_NOTICE\_FREQ | Mandatory | String | ‘1’ (one) |
| THIRD\_NOTICE\_FREQ | Mandatory | String | ‘1’ (one) |
| COMMENT\_LINE2 | Optional | String | Scratchpad entry Line 2 |
| COMMENT\_LINE3 | Optional | String | Scratchpad entry Line 3 |

### Provision: Delete Volunteer Amount Call Limit Lock { DELVCL }

Function Selector: DELVCL

IDL Function: PerformFunction

This function is limited to VSP contract subscribers.

This function will delete the Volunteer Call Limit Amount.

The query QCLVAS shall be performed before this request to retrieve the subscriber current call limit settings, and the Call Limit request types allowed.

The validations listed in 3.6.88 must be performed on the input parameters before the request is submitted:

* The QCLVAS return parameter DISPLAY\_DELETE\_VOLUNTARY\_AMOUNT shall have a value of true (case insensitive).
* Parameters that are not altered shall have the values as received from the QCLVAS query.

The function shall return an appropriate error message if a validation rule is broken. Error messages such as the following shall be sent:

* “Parameter <param name> violates validation rules”.
* The function is not permitted according to the QCLVAS DISPLAY parameters.

Table 472 - Provision: Insert Call Limit Lock values – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| COMMENT\_LINE1 | Mandatory | String | Scratchpad entry Line 1 - Comment about the action |
| COMMENT\_LINE2 | Optional | String | Scratchpad entry Line 2 |
| COMMENT\_LINE3 | Optional | String | Scratchpad entry Line 3 |

### Provision: Insert Temporary Voluntary Call Limit Lock { INSTCL }

Function Selector: INSTCL

IDL Function: PerformFunction

This function is limited to VSP contract subscribers.

This function will insert a Temporary Voluntary Call Limit Lock value to the subscriber’s profile in the VSP Eppix system.

The query QCLVAS shall be performed before this request to retrieve the subscriber current call limit settings, and the Call Limit request types allowed.

The validations listed in 3.6.88 must be performed on the input parameters before the request is submitted:

* The QCLVAS return parameter DISPLAY\_ADD\_TEMP\_LIMIT shall have a value of true (case insensitive).
* Parameters that are not altered shall have the values as received from the QCLVAS query.

The function shall return an appropriate error message if a validation rule is broken. Error messages such as the following shall be sent:

* “Parameter <param name> violates validation rules”.
* The function is not permitted according to the QCLVAS DISPLAY parameters.

Table 473 - Provision: Insert Call Limit Lock values – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| ACTIVATION\_DATE | Mandatory | String | Date the CLL is to be active from. Format YYYY-MM-DD |
| NOTIFY\_METHOD | Mandatory | String | The notification method. E, F or S for Email, Fax or SMS respectively |
| NOTIFY\_VALUE | Mandatory | String | The notification destination. If S, the MSISDN must be a valid Vodacom MSISDN. |
| FIRST\_NOTICE | Mandatory | String | e.g. 50 – percentage of limit reached |
| SECOND\_NOTICE | Mandatory | String | e.g. 70 – percentage of limit reached |
| THIRD\_NOTICE | Mandatory | String | e.g. 90 – percentage of limit reached |
| VAS\_TYPE | Mandatory | String | Specifies the VAS service type – either notify only (CMAN) or soft lock (CLCK) |
| VOL\_AMOUNT | Mandatory | String | The amount that the VTL is to be set to in Rands and cents e.g. 321.34 |
| TEMP\_ACTIVE\_FROM | Mandatory | String | Format YYYY-MM-DD. According to the rules in Table 723 |
| TEMP\_ACTIVE\_TO | Mandatory | String | Format YYYY-MM-DD. According to the rules in Table 723 |
| COMMENT\_LINE1 | Mandatory | String | Scratchpad entry Line 1 - Comment about the action |
| COMMENT\_LINE2 | Optional | String | Scratchpad entry Line 2 |
| COMMENT\_LINE3 | Optional | String | Scratchpad entry Line 3 |

### Provision: Delete Temporary Volunteer Amount Call Limit Lock { DELCTL }

Function Selector: DELCTL

IDL Function: PerformFunction

This function is limited to VSP contract subscribers.

This function will delete the Volunteer Call Limit Amount.

The query QCLVAS shall be performed before this request to retrieve the subscriber current call limit settings, and the Call Limit request types allowed.

The validations listed in 3.6.88 must be performed on the input parameters before the request is submitted:

* The QCLVAS return parameter DISPLAY\_DELETE\_TEMP\_LIMIT shall have a value of true (case insensitive).
* Parameters that are not altered shall have the values as received from the QCLVAS query.

The function shall return an appropriate error message if a validation rule is broken. Error messages such as the following shall be sent:

* “Parameter <param name> violates validation rules”.
* The function is not permitted according to the QCLVAS DISPLAY parameters.

Table 474 - Provision: Insert Call Limit Lock values – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| COMMENT\_LINE1 | Mandatory | String | Scratchpad entry Line 1 - Comment about the action |
| COMMENT\_LINE2 | Optional | String | Scratchpad entry Line 2 |
| COMMENT\_LINE3 | Optional | String | Scratchpad entry Line 3 |

### Provision: Provision Tariff Toggle {TRFTOG} (Tanzania Only)

Function Selector: TRFTOG

IDL Function: PerformFunction

This function will allow a subscriber to migrate between per second tariff, per minute tariff and Talk4Less tariff by using a keyword.

Table 475 - Provision: Migrate Subscriber Tariff – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| KEYWORD ID | Mandatory | String(15) | The per second or per minute keword indicator, e.g. SEK, DAK or T4L. See 5.19 for values |

The following application exception strings may be raised (see 0 below):

Table 476: Exception conditions and error strings raised

|  |  |
| --- | --- |
| Error condition | Error string raised |
| Subscriber is not already on a Vodago or Talk4Less offer | ‘Subscriber may not change to requested offer from current offer’ |
| Subscriber has an active Booster service | ‘Subscriber may not change to requested offer while Booster is active’ |
| Subscriber has performed Tariff Toggle in the last recent period | ‘Offer Migration / Activation has been done in the last ' X ' days’ (where X is an integer) |

### Provision: Provision SIM Swap {SIMCHG}

Function Selector: SIMCHG

IDL Function: PerformFunction

This function will allow a user to perform a SIM swap via IVR.

This function is available to both Prepaid and Contract subscribers.

The function will fail if any of the MSISDN, old SIM or new SIM is invalid and an error will be returned.

This function will fail if the AGENT MSISDN is not linked to an iCAP User that has access to the Sim Swap function. It is suggested that User associated to the calling MSISDN be retrieved using the stored procedure IS\_Security.P\_Query\_User\_MSISDN (Input calling MSISDN, Output user Sequence), and this User should undergo a *proxy logon* to the HighSpeed manager to verify permission to perform the Sim Swap function.

This function will fail if the subscriber to which the Swap is being applied is on a restricted offer or has a restricted subscriber attribute (restricted offers and/or subscriber attributes shall reside on the High Speed Manager Configuration (in sa\_processing\_parameters.simchgexclusions in Java implementations). An example entry in sa\_processing\_parsmeters.simchgexclusions is:

Request Type Exclusion List (comma delimited list of Offers or Subscriber Attributes – eg SIMCHG:offer:MONUC,offer:BUSIN,att:Voda-e,att:VIP)

Table 477 - Provision: SIM Swap – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| ORIGIN ID | Mandatory | String | 2 character origin id e.g.  GV – Grapevine IV – IVR US - USSD |
| AGENT\_MSISDN | Mandatory | String | See Table 2 |
| SEND\_SMS | Optional | String(1) | ‘N’’ |
| LANGUAGE | Optional | String(3) | Language for SMS (not applicable) |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| OLD ICCID | Mandatory | String(20) | Subscriber’s Existing SIM Serial (ICCID) |
| NEW ICCID | Mandatory | String(20) | New SIM Serial (ICCID) |
| ICAP USER ID | Optional | String(10) | User ID of Dealer (Not used in DRC or TZN) |
| UNLOCK ICCID | Mandatory | String(1) | Do you want to perform a Stolen Unlock the SIM after the SIM Swap is done? The value or ‘Y’ will initiate a stolen Unlock. Any other value will be ignored. |
| UNLOCK SMS | Mandatory | String(1) | Do you want to send an SMS to the subscriber after the Stolen Unlock has completed? The value or ‘Y’ will initiate a stolen Unlock. Any other value will be ignored. |

### Provision: Provision SIM Swap 2 {SIMCH2}

Function Selector: SIMCH2

IDL Function: PerformFunction

This is based on SIMCHG with modified parameters, validation and additional provisioning for Tanzania sim swap process 2. Ref TZFS-0187 Sim Swap Process 2 for details.

The Sim Swap function will have the following mandatory parameters from the highspeed function call: SUB ID (MSISDN), AGENT MSISDN and NEW ICCID. The OLD ICCID is not supplied.

The Sim Swap will perform barring of certain USSD codes for a configurable period (e.g. 48 hours) and then automatically unbar the USSD codes via an unbar request that pends for this period.

The function will fail if the MSISDN or new SIM is invalid and an error will be returned.

The function will fail if the AGENT MSISDN is not linked to an iCAP User that has access to the function.

This function will fail if the subscriber to which the Swap is being applied is on a restricted offer or has a restricted subscriber attribute (restricted offers and/or subscriber attributes shall reside on the High Speed Manager Configuration (in sa\_processing\_parameters.simchgexclusions in Java implementations). An example entry in sa\_processing\_parsmeters.simchgexclusions is:

Request Type Exclusion List (comma delimited list of Offers or Subscriber Attributes – eg SIMCHG:offer:MONUC,offer:BUSIN,att:Voda-e,att:VIP)

Will log a pending SIM Swap request type – SIMCHP.

Table 478 - Provision: SIM Swap 2 – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| ORIGIN ID | Mandatory | String | 2 character origin id e.g.  4C |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| AGENT MSISDN | Mandatory | String(10) | Agent MSISDN setup on iCAP as registered agent user |
| NEW ICCID | Mandatory | String(20) | New SIM Serial (ICCID) |
| SEND SMS | Optional | String(1) | ‘Y’ (send SMS to subscriber) |
| LANGUAGE | Optional | String(3) | Language for SMS (not applicable) |
| BIOMETRIC SIM SWAP YN | Optional | String(1) | If not supplied will default to ‘N’. |

### Provision: Create and Activate the Backup and Recovery Service for a subscriber { ADDBRS }

Function Selector: ADDBRS

IDL Function: PerformFunction

This function will activate the Backup and Recovery Service for a subscriber.

Table 479 - Provision: Activate Backup and Recovery Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:  o Prepaid Subscriber: ‘**BRP’**,  o Contract Subscriber: **‘BRC’**,  o Hybrid Subscriber: **‘BRH’** |

### Provision: Activate the pending Backup and Recovery Service Service for a Subscriber {ACTBRS}

Function Selector: ACTBRS

IDL Function: PerformFunction

This function will activate a pending BRS (Backup and Recovery Service) Service for a subscriber.

Table 480 - Provision: Activate HSDPA 3.6 Service – In AttributeList

| **Attribute Name** | **Mandatory/Optional** | **Format** | **Attribute Value Description** |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:  o Prepaid Subscriber: ‘BRP’ |

### Provision: Suspend the Backup and Recovery Service for a subscriber { SUSBRS }

Function Selector: SUSBRS

IDL Function: PerformFunction

This function will suspend the Backup and Recovery Service for a subscriber.

Table 481 - Provision: Suspend Backup and Recovery Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:   * + Prepaid Subscriber:     - * ‘**BRP’**   o Contract subscriber:   * + - * **‘BRC’**   o Hybrid subscriber:   * + - * **‘BRH’** |

### Provision: Unsuspend the Backup and Recovery Service for a subscriber { UNSBRS }

Function Selector: UNSBRS

IDL Function: PerformFunction

This function will unsuspend the Backup and Recovery Service for a subscriber.

Table 482 - Provision: Unsuspend Backup and Recovery Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:   * + Prepaid Subscriber:     - * ‘**BRP’**   o Contract subscriber:   * + - * **‘BRC’**   o Hybrid subscriber:   * + - * **‘BRH’** |

### Provision: Delete the Backup and Recovery Service for a subscriber { DELBRS }

Function Selector: DELBRS

IDL Function: PerformFunction

This function will delete the Backup and Recovery Service from a subscriber.

Table 483 - Provision: Delete Backup and Recovery Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:   * + Prepaid Subscriber:     - * **‘BRP’**   o Contract Subscriber:   * + - * **‘BRC’**   o Hybrid Subscriber:   * + - * **‘BRH’** |

### Provision: Activate Notifications {ADDNOT}

Function Selector: ADDNOT

IDL Function: ExecFunction

This function will add the Notifications to the Subscriber’s Profile.

Table 484 - Provisioning: Activate Notifications – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
|  |  |  |  |
| ActionAttributeList | Optional | Structure | See Table Table 485: Input Parameters – Subscriber Attribute Action “A\_SUATTR\_ACTION\_LIST “ for details |

Table 485: Input Parameters – Subscriber Attribute Action “A\_SUATTR\_ACTION\_LIST “

| Field Name | Format | Parameter Value Description | Value | Description |
| --- | --- | --- | --- | --- |
| SAT\_ID | string | SAT\_ID | ‘SMS’ | Attribute type ID |
| CURRENT\_SAC\_ID | string | CURRENT\_SAC\_ID | ‘SNO’, ‘SNOVES’ | Currently active attribute |
| NEW\_SAC\_ID | string | NEW\_SAC\_ID | NULL | Attribute to be activated |
| DATE\_FROM | string | DATE\_FROM | SYSDATE | Date from which attribute is active |
| DATE\_TO | string | DATE\_TO | NULL | NULL for all actions except a Delete/remove |

Table 370 lists the standard output attribute names.

### Provision: Add Content Block Attribute {ADDCTB}

Function Selector: ADDCTB

IDL Function: PerformFunction

This function will add the subscriber’s content block attribute to the Subscriber’s Profile.

Table 486 - Provisioning: Manage Content Block – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
|  |  |  |  |
|  |  |  |  |

### Provision: Remove Content Block Attribute {REMCTB}

Function Selector: REMCTB

IDL Function: PerformFunction

This function will remove the subscriber’s content block attribute to the Subscriber’s Profile (which entails setting the attribute to ‘N’).

Table 487 - Provisioning: Manage Content Block – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
|  |  |  |  |
|  |  |  |  |

### Deactivate Notifications {REMNOT}

Function Selector: REMNOT

IDL Function: PerformFunction

This Function shall remove the NotificationS from a subscriber’s profile.

Table 488 - Provisioning: Activate Notifications – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
| ActionAttributeList | Mandatory | Structure | See Table Table 485: Input Parameters – Subscriber Attribute Action “A\_SUATTR\_ACTION\_LIST “ for details |

Table 489: Input Parameters – Subscriber Attribute Action “A\_SUATTR\_ACTION\_LIST “

| Field Name | Format | Parameter Value Description | Value | Description |
| --- | --- | --- | --- | --- |
| SAT\_ID | string | SAT\_ID | ‘SMS’ | Attribute type ID |
| CURRENT\_SAC\_ID | string | CURRENT\_SAC\_ID | ‘SNO’, ‘SNOVES’ | Currently active attribute |
| NEW\_SAC\_ID | string | NEW\_SAC\_ID | NULL | Attribute to be activated |
| DATE\_FROM | string | DATE\_FROM | SYSDATE | Date from which attribute is active |
| DATE\_TO | string | DATE\_TO | NULL | NULL for all actions except a Delete/remove |

Table 370 lists the standard output attribute names.

### Set Notifications {SETNOT}

Function Selector: SETNOT

IDL Function: PerformFunction

This functionality is made available on the highspeed interface using the SETNOT function, which will change the MSISDN that receives the Deactivate Bundle notifications and set the notification times.

Table 490 - Provisioning: Set Notifications – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUBSCRIBER\_ ID | Mandatory | String | See *Table 2* |
| SUBSCRIBER\_ID\_TYPE | Mandatory | String | M (MSISDN) |
| DESTINATION\_MSISDN | Mandatory | String | The MSISDN to which the notification sms must be sent |
| NOTIFY\_TIME | Optional | String | W – Working Hours, A – After Hours, B – Both |

### Activate RTS Services {ADDRTS} – Not currently available

Function Selector: ADDRTS

IDL Function: PerformFunction

This function will add the Real-Time Spend services to the Subscriber’s Profile. This request shall only be available to contract subscribers. Service Id is passed as Input Parameter.

The RTS services are not active at this time

Table 491 - Provisioning: Activate RTS Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:   * + Overall Spend Limit:     - * **‘OSL’**   o Packet Switched Limit:   * + - * **‘PSL’**   o Circuit Switched Limit:   * + - * **‘CSL’** |

### Deactivate RTS Service {REMRTS}

Function Selector: REMRTS

IDL Function: PerformFunction

This Function shall remove the Real-Time Spend (RTS) service from a subscriber’s profile. This request shall only be available to contract subscribers. Service Id is passed as Input Parameter.

Table 492 - Provisioning: Deactivate RTS Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:   * + Overall Spend Limit:     - * **‘OSL’**   o Packet Switched Limit:   * + - * **‘PSL’**   o Circuit Switched Limit:   * + - * **‘CSL’** |

### Manage Real-Time Spend Limits {MNGSPD}

Function Selector: MNGSPD

IDL Function: PerformFunction

This Function will set and modify the Real-Time Spend (RTS) limits for a subscriber. This request shall only be available to contract subscribers. A spend limit can be set per service offering for Real-Time spend service types (RTS).

Table 493:Provisioning: Activate RTS Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:   * + Overall Spend Limit:     - * **‘OSL’**   o Packet Switched Limit:   * + - * **‘PSL’**   o Circuit Switched Limit:   * + - * **‘CSL’** |
| LIMIT | Mandatory | String | The rand limit to be set for the service offering |

### Provision: Add the Voda-e Subscriber Attribute (and restriction service) - DRC { ADDVDE}

Function Selector: ADDVDE

IDL Function: PerformFunction

This function will add the Admin Restricted Flag (ARF) Service for a subscriber. It shall be called by the RMS interface user user (which requires permission to provision the restricted service ARF). (This is for use in DRC and allows identification of and restriction on changes to these subscribers.)

Table 494 - Provision: Activate ARF service and subscriber attribute – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Optional | String | Only the following Service ID’s provisioning requests shall be  Accepted:  o Admin Restricted Flag: **‘ARF’** |
| EVC LEVEL | Mandatory | String(3) | Valid Input Item Value – must allow for this to be 3 digits e.g. 100 |

### Provision: Remove the Voda-e Subscriber Attribute (and restriction service) - DRC { DELVDE}

Function Selector: DELVDE

IDL Function: PerformFunction

This function will remove the Admin Restricted Flag (ARF) Service for a subscriber. It shall be called by the RMS interface user (which requires permission to provision the restricted service ARF). (This is for use in DRC and allows identification of and restriction on changes to these subscribers.)

Table 495 - Provision: Activate Backup and Recovery Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Optional | String | Only the following Service ID’s provisioning requests shall be  Accepted:  o Admin Restricted Flag: **‘ARF’** |

### Provision: Activate Opt In Push Advertising service {ADDADV}

Function Selector: ADDADV

IDL Function: PerformFunction

This function will add the ADV service to the Subscriber’s Profile. This request shall be available to all subscribers.

Table 496 - Provision: Opt In Push Advertising service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:   * + Prepaid Subscriber:     - * **‘OPP’**   o Contract Subscriber:   * + - * **‘OPC’**   o Hybrid Subscriber:   * + - * **‘OPH’** |

### Provision: Deactivate Opt In Push Advertising service { REMADV }

Function Selector: REMADV

IDL Function: PerformFunction

This function will remove the ADV service to the Subscriber’s Profile. This request shall be available to all subscribers.

Table 497 - Provision: Opt In Push Advertising service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:   * + Prepaid Subscriber:     - * **‘OPP’**   o Contract Subscriber:   * + - * **‘OPC’**   o Hybrid Subscriber:   * + - * **‘OPH’** |

### Provision: Add Notification For Content Billed {ADDNCB}

Function Selector: ADDNCB

IDL Function: ExecFunction

This function will enable the SMS notification for a subscriber. The subscriber will therefore receive a SMS notification, once successfully billed for content. This function will remove the inhibiting attribute from the subscriber’s profile.

Table 498 - Provisioning: Add Notification For Content Billed – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |

Table 370 lists the standard output attribute names.

### Provision: Remove Notification For Content Billed {REMNCB}

Function Selector: REMNCB

IDL Function: ExecFunction

This function will disable the SMS notification for a subscriber. The subscriber will therefore NOT receive a SMS notification, once successfully billed for content. This function will add the inhibiting attribute to the subscriber’s profile.

Table 499 - Provisioning: Add Notification For Content Billed – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |

Table 370 lists the standard output attribute names.

### Provision: Create and Activate the HSDPA Service for a Subscriber {ADDHSD}

**--- This function shall removed with ICAP release 9.1 ---**

Function Selector: ADDHSD

IDL Function: PerformFunction

This function will activate a pending HSDPA 3.6 Mbps Service for a subscriber.

Table 500 - Provision: Activate HSDPA 3.6 Service – In AttributeList

| **Attribute Name** | **Mandatory/Optional** | **Format** | **Attribute Value Description** |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | The required service as specified in [6] and [10] |

### Provision: Activate the pending HSDPA 3.6 Service for a Subscriber {ACTHSD}

**--- This function shall removed with ICAP release 9.1 ---**

Function Selector: ACTHSD

IDL Function: PerformFunction

This function will activate the pending HSDPA 3.6 Mbps Service for a subscriber.

Table 501 - Provision: Activate HSDPA 3.6 Service – In AttributeList

| **Attribute Name** | **Mandatory/Optional** | **Format** | **Attribute Value Description** |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | The required service as specified in [6] and [10] |

### Provision: Delete the HSDPA 3.6 Service for a subscriber {DELHSD}

**--- This function shall removed with ICAP release 9.1 ---**

Function Selector: DELHSD

IDL Function: PerformFunction

This function will delete the HSDPA 3.6 Service from a subscriber.

Table 502 - Provision: Delete HSDPA 3.6 Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | The required service as specified in [6] and [10] |

### Provision: Add SpinVox Service { ADDSVC }

Function Selector: ADDSVC

IDL Function: PerformFunction

This function will add the SpinVox Service to a Subscriber’s Profile. If the subscriber already has the service an error will be returned.

Table 503 - Provision: Activate SpinVox Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

PLEASE NOTE: The SpinVox Highspeed functionality will be disabled until this functionality becomes available for prepaid subscribers.

### Provision: Remove the SpinVox Service { REMSVC }

Function Selector: REMSVC

IDL Function: PerformFunction

This function will remove the SpinVox service from a Subscriber’s Profile.

Table 504 - Provision: Remove SpinVox Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

PLEASE NOTE: The SpinVox Highspeed functionality will be disabled until this functionality becomes available for prepaid subscribers.

### Provision: Add a VPN Service Offering { ADDVPN} – No Longer Applicable

Function Selector: ADDVPN

IDL Function: PerformFunction

This function will add a VPN Service Offering to a Contract Subscriber’s Profile. If the subscriber is not a Contract Subscriber, or the Subscriber already has the service an error will be returned.

Table 505 - Provision: Activate VPN Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s are accepted:  VPN0, VPN1, VPN2, VPN3, VPN4, VPN5 |

### Provision: Remove VPN Service { REMVPN} – No Longer Applicable

Function Selector: REMVPN

IDL Function: PerformFunction

This function will remove a VPN service offering from a Contract Subscriber’s Profile. If the Subscriber is not a Contract subscriber an error will be returned.

Table 506 - Provision: Remove VPN Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s are accepted:  VPN0, VPN1, VPN2, VPN3, VPN4, VPN5 |

### Provision: Modify a VPN Service Offering { MODVPN} – No Longer Applicable

Function Selector: MODVPN

IDL Function: PerformFunction

This function will allow a migration between two VPN service offerings on a Contract Subscriber’s Profile. In other words the subscriber will change from one VPN service offering to another. If the subscriber is not a Contract Subscriber, or the Subscriber already has the service an error will be returned. The input service id is the new service id (that the subscriber wishes to change to).

Table 507 - Provision: Modify VPN Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| CURRENT\_SERVICE ID | Mandatory | String | Only the following Service ID’s are accepted:  VPN0, VPN1, VPN2, VPN3, VPN4, VPN5 |
| NEW\_SERVICE ID | Mandatory | String | Only the following Service ID’s are accepted:  VPN0, VPN1, VPN2, VPN3, VPN4, VPN5 |

### Provision: Reset Activation Key on Trispen { KEYVPN} – No Longer Applicable

Function Selector: KEYVPN

IDL Function: PerformFunction

This function will reset the Activation Key for a contract subscriber on the VPN Licensing Server (Trispen).

Table 508 - Provision: Reset Activation Key on VPN Licensing Server – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Add SMS only roaming service {ADDSMR}

Function Selector: ADDSMR

IDL Function: PerformFunction

This function will add the SMR service to a subscriber’s profile. This request shall be available to **all** subscribers.

Table 509 - Provision: Add SMS only roaming service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Remove SMS only roaming service { REMSMR}

Function Selector: REMSMR

IDL Function: PerformFunction

This function will remove the SMR service from the subscriber’s Profile. This request shall be available to **all** subscribers.

Table 510 - Provision: Add SMS only roaming service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Confirm Instant Messenger Activation {CNFIMM}

Function Selector: CNFIMM

IDL Function: PerformFunction

This function shall only be available to external Instant Messenger users. The external IM system shall make use of this function to confirm the subscriber’s handset compatibility in order to make use of the Instant Messenger service.

Table 511 - Provision: Confirm Instant Messenger Activation – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:  o Contract Subscriber:   * + - * **‘IMC’**   + Prepaid Subscriber:     - * **‘IMP’**   o Hybrid Subscriber:   * + - * **‘IMH** |

### Provision: Reject Instant Messenger Activation {REJIMM}

Function Selector: REJIMM

IDL Function: PerformFunction

This function shall only be available to external Instant Messenger users. The external IM system shall make use of this function to reject the subscriber’s handset compatibility in order to make use of the Instant Messenger service.

Table 512 - Provision: Reject Instant Messenger Activation – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:  o Contract Subscriber:   * + - * **‘IMC’**   + Prepaid Subscriber:     - * **‘IMP’**   o Hybrid Subscriber:   * + - * **‘IMH** |

### Provision: Add Instant Messenger Activation {ADDIMM}

Function Selector: ADDIMM

IDL Function: PerformFunction

This function shall be available to contract, hybrid and prepaid subscribers who want to add / activate the Instant Messenger service.

Table 513 – Provision: Add Instant Messenger Activation – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:  o Contract Subscriber:   * + - * **‘IPC’**   + Prepaid Subscriber:     - * **‘IPP’**   o Hybrid Subscriber:   * + - * **‘IPH** |

### Remove Instant Messenger Activation {REMIMM}

Function Selector: REMIMM

IDL Function: PerformFunction

This function shall be available to contract, hybrid and prepaid subscribers who want to remove / deactivate the Instant Messenger service.

Table 514 – Provision: Remove Instant Messenger Activation – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:  o Contract Subscriber:   * + - * **‘IPC’**   + Prepaid Subscriber:     - * **‘IPP’**   o Hybrid Subscriber:   * + - * **‘IPH** |

### SIM Swap to A Starter Pack {SWPPPS}

Function Selector: SWPPPS

IDL Function: PerformFunction

This function shall be available for prepaid subscribers who want to SIM swap to an active starterpack SIM that they have purchased as per Celtel Nigeria requirement.

Table 515 – Provision: Sim Swap To A Starter Pack – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| OLD ICCID | Mandatory | String(20) | Subscriber’s Existing SIM Serial (ICCID) |
| SP ICCID | Mandatory | String(20) | Starterpack SIM Serial (ICCID) |
| SP MSISDN | Mandatory | String | Starterpack MSISDN |
| ICAP USER ID | Mandatory | String(10) | User ID of Dealer Conducting SIM Swap |

### Provision: Add the VAS Loyalty Programme service {ADDVLP}

Function Selector: ADDVLP

IDL Function: PerformFunction

This function will add the VLP service offering to the subscribers profile.

Table 516 - Provision: Add VLP Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Remove the VAS Loyalty Programme service {REMVLP}

Function Selector: REMVLP

IDL Function: PerformFunction

This function will remove the VLP service offering from the subscribers profile.

Table 517 - Provision: Remove VLP Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Threshold Reached Notification {THRRCH}

Function Selector: THRRCH

IDL Function: PerformFunction

This function informs iCAP that a threshold has been reached. iCAP will use the information to send a notification. The threshold has a type such as CREDIT\_USAGE with UNITS such as Rands. The maximum usage corresponding to 100% is given in the LIMIT parameter, and the current usage is given in the USAGE parameter. e.g. A user has exceeded 90% usage of his credit limit of R500. This is indicated by parameters TYPE=CREDIT\_USAGE, UNITS=Rands, LIMIT=500, and for example USAGE=460.

The next set of parameters indicate the notification details (e.g. a notification of type SMS is to be sent to a destination number, with defined notification text).

The final set of parameters indicate the threshold settings (in Percent) and which threshold has been reached. E.g. NOTIFICATION\_ID=2 indicates threshold 2 has been reached (in this case 90%). A threshold value of zero indicates the threshold is not set (no notification).

Table 518 - Provisioning: Set Notifications – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUBSCRIBER\_ ID | Mandatory | String | See *Table 2* |
| SUBSCRIBER\_ID\_TYPE | Mandatory | String | M (MSISDN) |
| TYPE | Mandatory | String | Type of threshold e.g. CREDIT\_USAGE |
| UNITS | Optional | String | e.g. Rands |
| LIMIT | Mandatory | String | Value corresponding to 100% e.g. 500 |
| USAGE | Mandatory | String | Current usage e.g. 460 |
| DESTINATION | Mandatory | String | The notification address number : e.g. MSISDN for SMS |
| NOTIFICATION\_METHOD | Mandatory | String | ‘S’ for SMS |
| NOTIFICATION\_TEXT | Mandatory | String | Dear customer, this is your notification that current usage exceeds 90% of your limit (used 460 of 500). |
| NOTIFICATION\_ID | Mandatory | String | Which notification has been reached (1 or 2 or 3) e.g. 2 |
| THRESHOLD\_1 | Mandatory | String | e.g. 50 |
| THRESHOLD\_2 | Mandatory | String | e.g. 90 |
| THRESHOLD\_3 | Mandatory | String | e.g. 0 |
| THRESHOLD\_4 | Mandatory | String | e.g. 0 |

### Add Voluntary Call Limit {CLLADV}

Function Selector: CLLADV

IDL Function: PerformFunction

This function sets up a Voluntary Call Limit setting for a subscriber.

Table 519 - Provisioning: Add Vol Call Limit – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB\_ID | Mandatory | String | See *Table 2* |
| SUB\_ID\_TYPE | Mandatory | String | M (MSISDN) |
| CLL\_VALUE | Mandatory | Number | The value of the limit in rands |
| ACTION | Mandatory | String | NOT (Notify) or NAL (Notify and Lock) |
| CLL\_NOTIFICATION\_METHOD | Mandatory | String | ‘SMS’ – SMS notification |
| CLL\_NOTIFICATION\_NUMBER | Mandatory | String | ‘Notification destination – MSISDN in 10 digit format (0829801234) or an MSISDN in number plan appropriate format [3.2]. |

### Update Voluntary Call Limit {CLLUPV}

Function Selector: CLLUPV

IDL Function: PerformFunction

This function updates a Voluntary Call Limit setting for a subscriber.

Table 520 - Provisioning: Add Vol Call Limit – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB\_ID | Mandatory | String | See *Table 2* |
| SUB\_ID\_TYPE | Mandatory | String | M (MSISDN) |
| CLL\_VALUE | Mandatory | Number | The value of the limit in rands |
| ACTION | Mandatory | String | NOT (Notify) or NAL (Notify and Lock) |
| CLL\_NOTIFICATION\_METHOD | Mandatory | String | ‘SMS’ – SMS notification |
| CLL\_NOTIFICATION\_NUMBER | Mandatory | String | ‘Notification destination – MSISDN in 10 digit format (0829801234) or MSISDN in number plan appropriate format [3.2]. |

### Delete Voluntary Call Limit {CLLDLV}

Function Selector: CLLDLV

IDL Function: PerformFunction

This function deletes a Voluntary Call Limit setting for a subscriber.

Table 521 - Provisioning: Add Vol Call Limit – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB\_ID | Mandatory | String | See *Table 2* |
| SUB\_ID\_TYPE | Mandatory | String | M (MSISDN) |

### Unlock User and Reset Password { REQUUP }

Function Selector : REQUUP

IDL Function: PerformFunction

This request unlocks a user’s account and/or reset the user’s password. This can be used for the currently logged-in username or for another username.

Table 522 - Provisioning: Change Password – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| USER\_NAME | Mandatory | String | User name of logged on user |
| REQUEST | Mandatory | String | Defines the action to be taken:  1 = Resets the password of the relevant username to the default (i.e. to be the same as the username)  2 = Unlocks the username’s account if it was locked due to 3 unsuccessful login attempts  3 = Resets the password and unlocks the username account as per above |

### Change Password { REQCUP }

Function Selector : REQCUP

IDL Function: PerformFunction

This request updates the currently logged-in username’s password (i.e. it cannot be used to change the password of other users.

Table 523 - Provisioning: Unlock User and Reset Password– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| USER\_NAME | Mandatory | String | User name of logged on user. |
| OLD\_PASSWORD | Mandatory | String | User’s password to be changed. |
| NEW\_PASSWORD | Mandatory | String | New password to be set-up.  The new password needs to be a minimum of 8 and a maximum of 30 alpha-numeric characters |

Note: The last logon date shall be updated with the current time when changing a user’s password.

No system passwords shall be older than 60 days. All deviations shall be motivated and Risk Acceptances shall be signed by senior management.

### Provision: Change Subscriber Password {REQCSP}

Function Selector: REQCSP

IDL Function: PerformFunction

This function shall allow the password of a subscriber to be changed to a user selected value.

Table 524: Provision: Change Password – InParameterList

| Parameter Name | Mandatory /Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUBSCRIBER\_ID | Mandatory | String | See *Table 2* |
| SUBSCRIBER\_ID\_TYPE | Mandatory | String | 'ISDN' / ‘Y’  'USER\_NAME' / ‘K’ (ADSL user name)  ‘M’ (MSISDN)  ‘ICCID’ / ‘C’ |
| OLD\_PASSWORD | Mandatory | String | Password to be changed – this is entered un-encrypted |
| NEW\_PASSWORD | Mandatory | String | New password to be set-up – this is entered un-encrypted |

### Provision: Add Prepaid Promotion Service {ADDVMB}

Function Selector: ADDVMB

IDL Function: PerformFunction

This function shall be available to prepaid subscribers only.

Table 525 – Provision: Add VMB Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:  o Prepaid Subscriber:   * + - * **‘VMB’** |

### Remove Prepaid Promotion Service {REMVMB}

Function Selector: REMVMB

IDL Function: PerformFunction

This function shall be available to prepaid subscribers only.

Table 526 – Provision: Remove VMB Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be  Accepted:  o Prepaid Subscriber:   * + - * **‘VMB’** |

### Enable Mailbox Service {ADDVMS}

Function Selector: ADDVMS

This function is not available for RSA.

IDL Function: PerformFunction

Table 527 – Provision: Enable Mailbox Service {ADDVMS}– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SECON SUB ID | Optional | String | See *Table 2* |
| SECON SUB ID TYPE | Optional | String(1) | M (MSISDN) |
| USERNAME | Optional | string(30) | Jinny username |
| LANGUAGE | Optional | string(10) | Jinny language |
| UMSTYPE | Optional | string(10) | Jinny UMS type |

### Delete Mailbox Service {DELVMS}

Function Selector: DELVMS

This function is not available for RSA.

IDL Function: PerformFunction

Table 528 – Provision: Enable Mailbox Service {DELVMS}– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SECON SUB ID | Optional | String | See *Table 2* |
| SECON SUB ID TYPE | Optional | String(1) | M (MSISDN) |

### Add Visual Voicemail Service {ADDVVM}

Function Selector: ADDVVM

IDL Function: PerformFunction

Table 529 – In AttributeListProvision: Add Visual Voicemail Service {ADDVVM}– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be accepted**:**  **South Africa:**  Can ONLY be ONE of the following:  For prepaid: ‘**VVMP ‘**  For contract: **‘VVMC’**  For hybrid/topup: ‘**VVMH’** |

For prepaid, an exception code 108 will be thrown when the user do not have suffient funds.

### Remove Visual Voicemail Service {REMVVM}

Function Selector: REMVVM

IDL Function: PerformFunction

This function is used by 4ME platform to remove the Visual Voicemail service.

Table 530 – Provision: Remove Visual Voicemail Service {REMVVM}– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be accepted**:**  **South Africa:**  Can ONLY be ONE of the following:  For prepaid: ‘**VVMP ‘**  For contract: **‘VVMC’**  For hybrid/topup: ‘**VVMH’** |

### Cancel Visual Voicemail Service {CANVVM}

Function Selector: CANVVM

IDL Function: PerformFunction

This function is used by ER to cancel the Visual Voicemail service.

Table 531 – Provision: Canel Visual Voicemail Service {CANVVM}– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Mandatory | String | Only the following Service ID’s provisioning requests shall be accepted**:**  **South Africa:**  Can ONLY be ONE of the following:  For prepaid: ‘**VVMP ‘**  For contract: **‘VVMC’**  For hybrid/topup: ‘**VVMH’** |

### Validate Proof Of Ownership {VALPOO}

Function Selector: VALPOO

IDL Function: PerformFunction

Before the actual SIM SWAP takes place, customer’s information will have to be verified. The verification process will have a combination of functions depending on the method used, upon these functions returning successful results, a record will be kept in the system to allow actual SIM SWAP function to go through. There are 4 verification possibilities (all 4 possibilities include a name verification process):

Table 532: Verification Possibilities

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Verification Type** | **Description** | **Associated Query Type** | **Collectively Used With** | **Flag** | **Flag(s) Condition for SIM Swap Request** |
| PO1 | Verify Dialled Numbers | QRYPOO | Name Verification | PO1\_STATUS | PO1\_STATUS |
| PO2 | Verify Last Recharge | QVRHIS | Name Verification AND (PO3 **OR** PO4) | PO2\_STATUS | PO2\_STATUS **AND** (PO3\_STATUS **OR** PO4\_STATUS) |
| PO3 | Verify Friends and Family (incl Billing Type) | QRYFAF  QSINFO | Name Verification AND (PO2 **OR** PO4) | PO3\_STATUS | PO3\_STATUS **AND** (PO2\_STATUS **OR** PO4\_STATUS) |
| PO4 | Verify existing SIM ICCID | QSBPRF | Name Verification AND (PO2 **OR** PO3) | PO4\_STATUS | PO4\_STATUS **AND** (PO2\_STATUS **OR** PO3\_STATUS) |

Table 533: Provision: Validate Proof of Ownership – In Attribute List

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See *Table 2* |
| SUB ID TYPE | String(6) | MSISDN |
| USSD\_AGENT\_ID | String | Agent’s ID as configured on iCAP |
| VERIFICATION\_TYPE | String | PO1, PO2, PO3 or PO4 |
| SUB\_FIRSTNAME | String | Subscriber’s first name (as captured on iCAP) |
| SUB\_LASTNAME | String | Subscriber’s lastname (as captured on iCAP) |
| ATTR\_LIST | NameValuePair | Input Attributes as defined below: |

Table 534: Validate Proof of Ownership: PO1 – In Attr List

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| DATE\_FROM | String | ccyymmdd e.g. 20090101 date after which to search for the calls made by the subscriber to the following B Parties specified by the subscriber: |
| MSISDN\_1 | String | B Party MSISDN called by Subscriber, in international format (3.2) |
| MSISDN\_2 | String | B Party MSISDN called by Subscriber, in international format (3.2) |
| MSISDN\_3 | String | B Party MSISDN called by Subscriber, in international format (3.2) |
| MSISDN\_4 | String | B Party MSISDN called by Subscriber, in international format (3.2) |
| MSISDN\_5 | String | B Party MSISDN called by Subscriber, in international format (3.2) |

Table 535: Validate Proof of Ownership: PO2 – In Attr List

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| DAYS | String | The number of days to query recharge history for from the current date. The allowed values are 30, 60 and 90. |
| AMOUNT | String | The value of the recharge |
| RECHARGE\_TYPE | String | The type of recharge. Examples are ‘Voucher’, ‘USSD Recharge’, ‘Airtime Transfer’. |
| RECHARGE\_DATE | String | The date the recharge was done The format is “YYYY-MM-DD’. |

Table 536: Validate Proof of Ownership: PO3 – In Attr List

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| MSISDN\_1 | String | Subscriber’s Friends MSISDN in 10 digit format or 15 digit (3.2) |
| MSISDN\_2 | String (10) | Subscriber’s Friends MSISDN in 10 digit format or 15 digit (3.2) |
| MSISDN\_3 | String (10) | Subscriber’s Friends MSISDN in 10 digit format or 15 digit (3.2) |
| MSISDN\_4 | String (10) | Subscriber’s Friends MSISDN in 10 digit format or 15 digit (3.2) |

Table 537: Validate Proof of Ownership: PO3 – In Attr List

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| BILLING\_TYPE | String | Billing type:  ‘min’ = per minute  ‘sec’ = per second  ‘4U’ = 4U billing type |

Table 538: Validate Proof of Ownership: PO4 – In Attr List

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| ICC-ID | String | ICCID |

Table 539: Validate Proof of Ownership: VALPOO – Out Attr List

| Attribute | Format | Description |
| --- | --- | --- |
| [n]\_STATUS | String(10) | Failed1/Failed2/Approved/Completed/NULL |
| MESSAGE | String | Response message |

Where:

[n] = Verification Type (PO1/PO2/PO3/PO4)

### Provision: Add Bundle {ADDBUN} for adhoc data volume bundle

Function Selector: ADDBUN

IDL Function: PerformFunction

External systems (e.g. Tanzania Grapevine/Vodamail/Selcom, DRC ZTE/PPFE) call the ADDBUN function to add the required adhoc data bundle. The KEYWORD maps to the service offering. The service offering is on G03 or ABB service type as per the offer specification (DRFS-002, DRFS-021, TZFS-002, TZFS-003).

Table 540 – Provision: Add Bundle – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| RECIPIENT | Optional | String (10) | Recipient Subscribers MSISDN in 10 digit format.  This is used buddy purchase (internet for a friend) where the SUB ID MSISDN is buying bundle for the RECIPIENT MSISDN. |
| KEYWORD | Mandatory | String | The possible values of KEYWORD are country dependent:  **DRC Keywords** –  DDB5M, DB2M, DB15M, DB40M, DB150M, DB500M, DB2G  Recurring Data Bundles –  CH010, CH012, CH020, CH024, CH050, CH060, CH100, CH120, CH150, CH200, CH240, CH300, CH500, GR500, GR050, GR150, GR250  **TZN Keywords** –  MYMEG10, MYMEG20, MYMEG100, MYMEG150,MYMEG250,  MYGIG2, MYGIG4, MYGIG10, MYGIG20, MYGIG50,  10MB, 20MB, 100MB, 150MB, 250MB  2GB, 4GB, 10GB, 20GB, 50GB,  CHEKA INTERNET, CHEKA INTANET,  CHEKA INTERNET PLUS, CHEKA INTANET PLUS  CHEKA INTERNET 30, CHEKA INTANET 30  CHEKA INTERNET 30 PLUS, CHEKA INTANET 30 PLUS  SPIDI7, SPIDI30, SPIDI90, SPIDI365.  BOMBA7(UNLIMITED7), BOMBA30(UNLIMITED30), BOMBA90.  5MB, DAY 5MB, SIKU 5MB, 25MB, DAY 25MB, SIKU 25MB  DAY 50MB, SIKU 50MB, 125MB, WEEK 125MB, WIKI 125MB  WEEK 500MB, WIKI 500MB, 50MB, 500MB, 1GB, 5GB  **TZN Pontis Keywords (Origin PT) -**  ChekaFR20B-D7,ChekaFR50B-D7,ChekaD200-D2  ChekaD500-D7,ChekaD2000-D30,ChekaD1000-D7  ChekaD3000-D30 |
| TRANS ID | Optional | String | Optional field that external syste will have to pass eg. 123 |
| CHARGE MODE | Optional | String | Charge mode 1 = charge subscriber  Charge mode 0 = do not charge |

Tanzania special response by http command (Ref TZFS-097 for details)

When ADDBUN is called from certain source systems (by origin ID e.g. “VM” or “SE”) then iCAP will respond with a successful/ unsuccessful purchase response message (instead of an SMS) to the corresponding webproxy manager (e.g. webproxyVM or webproxySE). The response message will be an http command to a URL with the msisdn and the message as parameters e.g.

<http://x.x.x.x:8080/vodacom-personal/servlet/MessageServlet?msisdn=754000000&message>= Vodacom Internet activated up to 2012-08-03 19:18:45. Use up to 5 GB after which usage will be charged at Tsh 0.15 per KB. Thank you for choosing Vodacom.

### Provision: Add DSTV Bundle {ADDMDS} for DSTV Mobile

Function Selector: ADDMDS

IDL Function: PerformFunction

The subscriber access the DSTV portal and subscribes to the bundle, which calls ADDBUN function to add the required adhoc data bundle service offering on DMS service type.

Table 541: Provision: Add DSTV Bundle – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| KEYWORD | Mandatory | String | DSTVTANZ001  DSTVTANZ002  DSTVTANZ003  DSTVTANZ004 |
| CHARGE MODE | Mandatory | String | Charge mode 1 = charge subscriber  Charge mode 0 = do not charge |

Table 542 ADDMDS- Ouput list

| Attribute | Format | Description |
| --- | --- | --- |
| MESSAGE | String | Response message |

Notes

cheka internet = 15MB and cheka internet plus = 150MB (ref TZ007919).

cheka internet 30 = 50MB and cheka internet plus 30 = 250MB (ref TZ008019).

### Delete ad-hoc volume based data bundle {DELBUN}

Function Selector: DELBUN

IDL Function: PerformFunction

Table 543 – Provision: Delete ad-hoc volume based data bundle – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| TRANS ID | Optional | String | Optional field that external syste will have to pass eg. 123 |
| KEYWORD | Mandatory | String | The possible values of KEYWORD are:  MYMEG10, MYMEG20, MYMEG100, MYMEG150,MYMEG250, MYMEG500,  MYGIG1, MYGIG2, MYGIG4, MYGIG5, MYGIG10, MYGIG20, MYGIG50,  10MB, 20MB, 100MB, 150MB, 250MB, 500MB,  1GB, 2GB, 4GB, 5GB, 10GB, 20GB, 50GB,  CHEKA INTERNET, CHEKA INTANET,  CHEKA INTERNET PLUS, CHEKA INTANET PLUS  CHEKA INTERNET 30, CHEKA INTANET 30  CHEKA INTERNET 30 PLUS, CHEKA INTANET 30 PLUS  SPIDI7, SPIDI30, SPIDI90, SPIDI365 |

### Provision: Add Prepaid Billing Package {ADDPBP}

Function Selector: ADDPBP

IDL Function: PerformFunction

The subscriber sends sms keyword to Grapevine (or USSD), which calls ADDPBP function to add the required service offering on Prepaid Billing Packages (PBP) service type. The keyword represents the required service.

Table 544 – Provision: Add Prepaid Billing Package – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| KEYWORD | Mandatory | String | The possible values of KEYWORD are shown in UPPERCASE (with the description shown in brackets):  VOICESTEP (step tariff for onnet voice – zero rated after 3 min)  SMSSTEP (step tariff for Vodajamaa SMS – free after the 30th SMS)  VOICELATE (step tariff for Vodajamaa calls late at night)  YouthPromo (subscribe AltrPromotion and AltrPromoData packages) |
| TRANS ID | Optional | String | Optional field that external syste will have to pass eg. 123 |
| CHARGE MODE | Optional | String | Charge mode 1 = charge subscriber  Charge mode 0 = do not charge |

### Delete Prepaid Billing Package {DELPBP}

Function Selector: DELPBP

IDL Function: PerformFunction

This function will not be allowed within a 30 day period of adding the package (via ADDPBP). After 30 days DELPBP can be used to remove the prepaid billing package services.

Table 545 – Provision: Delete Prepaid billing Package – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| KEYWORD | Optional | String | Keyword Values: See ADDPBP above  If not supplied, remove all the subscriber PBP services. |

### Add Stop the Clock Service {ADDSTC}

Function Selector: ADDSTC

IDL Function: PerformFunction

Table 546 – Provision: Add Stop the Clock Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Delete Stop the Clock Service {DELSTC}

Function Selector: DELSTC

IDL Function: PerformFunction

Table 547 – Provision: DeleteStop the Clock Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Finalise Redemption Transaction {FINRED}

Function Selector: FINRED

IDL Function: PerformFunction

Table 548 – Provision: FINRED function – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| REWARD KEY | Mandatory | String | Sage “reward key” value |
| MSISDN | Mandatory | String | Sage “MSISDN” value |
| IMEA | Mandatory | String | Sage “IMEA” number |
| ORDER\_NUMBER | Mandatory | String | Sage “order\_number” value |
| DATE | Mandatory | Date String | Sage transaction date |
| CUSTOMER\_NUMBER | Mandatory | String | Sage “customer number” value |
| CODE | Mandatory | String | Sage transaction code |

### Claim Redeemed Reward {CLMELP}

Function Selector: CLMELP

IDL Function: PerformFunction

Table 549 – Provision: CLMELP function – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| REQUEST TYPE | Mandatory | String | CLMELP |
| ORIGIN ID | Mandatory | String | System abbreviation initiating request |
| PIN | Mandatory | String | Supplier’s PIN |
| REWARD KEY | Mandatory | String | Reward key (supplied by subscriber) |

### Reverse Redeemed Reward {REVELP}

Function Selector: REVELP

IDL Function: PerformFunction

Table 550 – Provision: REVELP function – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| TRANSACTION\_ID | Mandatory | String | ID of the redeem transaction (otherwise known as the REWARD\_KEY) |

### Provision: Add SMS Bundle {ADDSMS}

Function Selector: ADDSMS

IDL Function: PerformFunction

Table 551 – Provision: Add SMS Bundle – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| KEYWORD | Mandatory | String(15) | This is used to select which service (volume) is required. |
| TRANS ID | Optional | String | Optional field that external syste will have to pass eg. 123 |
| CHARGE MODE | Optional | String | Charge mode 1 = charge subscriber  Charge mode 0 = do not charge |

SMS Bundles:

SMS25, SMS50, SMS80, SMS150, SMS300, SMS500, SMS1000, SMS5000.

DRC – ZTE Bundles

A005, A015, A100

Pontis Keywords:

ChekaS200-D2,ChekaS200-D7,ChekaS500-D2

ChekaS500-D7,ChekaS1000-D2,ChekaS1000-D7

ChekaS2000-D7,ChekaFR10S-D7,ChekaFR20S-D7

ChekaFR50S-D7

### Provision: Closed User Group Functions

The Closed User Group Management functions, to be implemented for DRC are as follows.

* Only the prepaid CUGs (Friends CUG and Enterprise CUG) will be implemented on Highspeed.
* The postpaid CUGs (Corporate CUG) will be on iCAP frontend ony.
* For Friends CUG the CUG ID is the short MSISDN of the Owner. For Enterprise CUG the CUG ID is a string defined when the CUG is created from the frontend and supplied to the Owner (who is present to make the payment).

|  |  |
| --- | --- |
| CUGQRY (Query Members) | iCAP lists member MSISDNs (the owner is the first member in the list) |
| CUGADD (Add Member) | iCAP configures CUG member via MNGPOF requests and provisions ICC. |
| CUGREM (Remove Member) | iCAP removes CUG member via MNGPOF requests and provisions ICC. |
| CUGRNW (Renewal of Subscription) | iCAP renews CUG subscription and provisions ICC. |

### Query: CUG Query Members {CUGQRY}

Function Selector: CUGQRY

IDL Function: PerformFunction

This function returns a list of the member MSISDNs, starting with the owner as the first member.

Table 552 – Query: CUG Query Members – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| CUG\_ID | Optional | String | The CUG Identifier. |

### Provision: CUG Add Members {CUGADD}

Function Selector: CUGADD

IDL Function: PerformFunction

This function adds member MSISDNs to the closed user group.

Table 553 – Provision: CUG Add Members – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| CUG\_ID | Mandatory | String | The CUG Identifier. |
| MEM\_MSISDN | Mandatory | String | The MSISDN of the member to be added to the CUG |

### Provision: CUG Remove Members {CUGREM}

Function Selector: CUGREM

IDL Function: PerformFunction

This function removes member MSISDNs from the closed user group as specified in the function input parameters. The request can partially succeed, removing some members and not others. The member list can be queried via CUGQRY.

Table 554 – Provision: CUG Remove Members – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| CUG\_ID | Mandatory | String | The CUG Identifier. |
| OVERRIDE | Optional | String | Can the member count be overridden? YES or NO.  The default is NO.  If NO (default) the member count is checked. The removal of a member cannot be executed if the member count would drop below the minimum member count allowed for the CUG. The minimum number of members is retained on the CUG.  If YES then the override is allowed, the member count is not checked, and members can be removed. |
| MEM\_MSISDN | Mandatory | String | The MSISDN of the member to remove from the CUG (3.2) |

### Provision: CUG Renewal {CUGRNW}

Function Selector: CUGRNW

IDL Function: PerformFunction

This function renews the closed user group subscription. Payment will be requested from the ICC IN. The request will fail if the payment extraction fails due to insufficient funds.

Table 555 – Provision: CUG renewal – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| CUG\_ID | Mandatory | String | The CUG Identifier. |

### Provision: Synchronize Mailbox {SYNMBX}

Function Selector: SYNMBX

IDL Function: PerformFunction

This function only allows subscribers who have an active mailbox to do a mailbox synthru to the mailbox platform. The parameters of the current mailbox type from the subscriber’s current offer are used to repair the mailbox. If the subscriber does not have an active mailbox an error will be raised. The function will not reset the subscribers call forwarding settings to the voice mailbox. Function SETCFN can be used for this.

Table 556 – Provision: Synchronize mailbox – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Migrate More Minutes Bundle {MIGMMO}

Function Selector: MIGMMO

IDL Function: PerformFunction

Migrate the More Minutes bundle for a subscriber. iCAP will check the current service offering and migrate the subscriber to the offering required. If the subscriber is not on the offering required the subscriber will be migrated to that offering. If there are any errors the subscriber will be notified by SMS of the error.

Table 557 – Provision: Migrate More Minutes Bundle – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| BUNDLE | Mandatory | String(15) | This is used to select which bundle the subscriber wishes to be on. The options are:  “WEEKDAY NIGHTS”  “WEEKEND” |

### Provision: Reset Subscriber PIN {RTWPIN}

Function Selector : RTWPIN

IDL Function: PerformFunction

This request shall replace the existing subscriber PIN/Password with a new PIN/Password in iCAP. The new PIN is notified to the subscriber by SMS or email

Table 558: RTWPIN Input Parameters

| Attribute Name | Mandatory /Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | ‘E’ (SP ID)  ‘Y’ (ISDN)  ‘M’ (MSISDN)  ‘C’ (ICCID)  ‘K’ (ADSL user name) |

### Provision: Send Password Reminder {SNDPWR}

Function Selector : SNDPWR

IDL Function: PerformFunction

This request shall send the subscriber’s ADSL user name and password to the subscriber via the communication channel (e.g. email / SMS) as configured under the subscriber’s notification preferences. If no custom notification preferences are set for the subscriber, default notification rules will be used. This reminder resorts under the security class of notifications.

Table 559: SNDPWR Input Parameters

| Attribute Name | Mandatory /Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M, K (ADSL user name), E (SP ID), Y (ISDN) |

### Provision: Set Subscriber Notification Preferencess {SETNTF}

Function Selector : SETNTF

IDL Function: ExecFunction2

The Set Subscriber Notification Preferences (SETNTF) request type shall be used to capture the subscribers chosen notification timeslots and delivery MSISDN (SMS) or address (email) for the various notification categories.

A Subscriber Contact Number cannot be removed if there is a Subscriber Contact preference of the same category. e.g. Contact Number of Type = ‘EH’ cannot be removed (but may be changed) if there is a subscriber preference associated with Type ‘EH’.

Where the subscriber wishes to use the system defaults for a particular Message Category, the row for that category is deleted.

Table 560 - Provision: SETNTF - AttributeList

| Parameter Name | Mandatory/ Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| ContactNumList | Mandatory | Structure | See Table 561 |
| SubNotifPrefList | Optional | Structure | See Table 562 |

Table 561 ContactNumList Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter Name** | **Format** | **Mandatory/ Optional** | **Parameter & Value Description** |
| CONTACT TYPE | String | Conditional | Contact Type –see 5.20 |
| CONTACT ACTION | String | Mandatory | Action for each instance – may be mixed in one request - CRE, or DEL |
| COUNTRY CODE | String | Conditional | Dialling code for the country in which the number is located e.g. ‘27’ for South Africa, ‘44’ for the United Kingdom |
| AREA NETWORK CODE | String | Conditional | Dialling code for the national area in which the number is located e.g. ‘11’ for Johannesburg or ‘21’ for Cape Town or ‘82’ or ‘72’ for Vodacom |
| DIAL NUMBER | String | Conditional | Dialled service number(ISDN) e.g. ‘4256160’ or if mobile phone entered, e.g. 0829805125 - ‘9805125’, or email address |

Table 562 SubNotifPrefList Attributes

| Parameter Name | Format | Mandatory/ Optional | Parameter & Value Description |
| --- | --- | --- | --- |
| timeslotCategory | String | Mandatory | Timeslot category (e.g. AH = All Hours) see Notifications |
| notificationCategory | String | Mandatory | Notification Category (e.g. USAGE) See Notifications |
| defaultValue | String | Not Used | This parameter is not used for this request |
| actionType | String | Mandatory | CRE, DEL |
| fromDate | Date | Optional | null |
| toDate | Date | Optional | null |

### Provision: Renew WiMax M2M {RNWM2M}

Function Selector : RNWM2M

IDL Function: PerformFunction

The Renew WiMax M2M (RNWM2M) function is used to indicate that the subscriber wishes to renew a WiMax Month2Month bundle (time based or volume based bundle – Ref DRFS-139, DRFS-002, DRFS-021) on a GSM offer. The function will log a synchronous PURBUN request using PWE to track the payment and bundle activation. On return from this function, the caller MAY NOT ASSUME that the bundle has been successfully paid or activated. The success/failure will be reported by SMS via the PWE workflow.

For new WM4 services BUNDLE will be mandatory. This will not use PWE, it will log a FORCE SYNC MNGPOF/MNGOFF request – see DRFS-0229 for details.

Table 563: RNWM2M Input Parameters

| Attribute Name | Mandatory /Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M |
| BUNDLE | Optional  Mandatory (WM4) | String(15) | This is used to select which bundle the subscriber wishes to renew.  The value supplied must be one of the service offerings under the WM3 service type (Wimax bundles), for the relevant offer the subscriber is currently on. Refer to the Offer Specs DRFS-002 and DRFS-021 for WM3 services.  Alternatively the value may be omitted. In this case, the subscriber is requesting a renewal of the bundle he had. |

### Provision: Voucher Redemption {VCHRED}

Function Selector : VCHRED

IDL Function: PerformFunction

The Voucher Redemption Function is used to redeem a voucher that a subscriber has bought and needs to be processed via the DRC web portal. A request will be logged that will provision the IN and update the subscriber IN account.

Table 564: VCHRED Input Parameters

| Attribute Name | Mandatory /Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M |
| VOUCHER PIN NUMBER | Mandatory | String(19) | This field can be between 13 & 19 digit s, provided by the user |

Table 565: VCHRED – Out Attr List

| Attribute | Format | Description |
| --- | --- | --- |
| MESSAGE | String | Response message |

### Provision: Add Once Off International Voice Bundle {ADDIVB}

Function Selector : ADDIVB

IDL Function: PerformFunction

This function is used to provision subscribers with once off international voice bundles. The function is valid for contract subscribers only. An error will be returned if the if the function is attempted on a prepaid or hybrid subscriber.

Table 566: ADDIVB Input Parameters

| Attribute Name | Mandatory /Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M |
| SERVICE ID | Mandatory | String | The service offering ID of the once off international voice bundle to be added. Refer to VCFS-041 for the service offerings associated with service type IVA. E.g. input IVA4 to activate the Once Off Int Voice 30 Min bundle for the subscriber. |

### Provision: Add Bulk SMS Service {ADDBSS}

Function Selector : ADDBSS

IDL Function: PerformFunction

VSP Portal calls this function to extract payment for a Bulk SMS Service bundle for prepaid subscribers and hybrid subscribers.

The add bulk sms service function will perform a purchase request to deduct funds from ICC IN. The success/failure is reported to subscriber by SMS and to VSP Portal by logging an event command to The VSP Portal Manager. The success/failure cannot be returned directly by this function because it is necessary to wait for the result of the payment process.

Table 567 – Provision: Add Bulk SMS Service – In Attribute List

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String | MSISDN |
| KEYWORD | String | This is the prepaid bundle amount in Dollars e.g. 100  These funds will be deducted on the IN. |

### Provision: Add Customer Interaction {CIMINT}

Function Selector: CIMINT

IDL Function: PerformFunction

Table 568 - Provision : Add Customer Interaction- InParameterList

| Parameter Name | Mandatory/Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Values: ‘MSISDN’, ‘ICCID’,’SMARTCARD’ |
| CALLID | Optional | String | If NULL, CIM will allocate a unique reference to this field.  e.g. ‘8973645’ |
| ACCOUNT\_ID | Optional | String | ID of the Account e.g. ‘034928008’ |
| SOURCE | Optional | String | Source e.g. ‘Callagent Retentions’ |
| TOPIC\_CODE | Mandatory | String | Topic Code e.g. ‘MGRQST’ – This is a freetext field currently |
| COMMENT | Optional | String | Detail of the Scratchpad e.g. “Customer phoned in to complain about the bill – he was out of the country when calls were made.” This field is the concatenation of Comment Lines 1,2 and 3. |

### Provision: Adjust Loyalty Points balance {ADJULP}

Function Selector: ADJULP

IDL Function: PerformFunction

This will be used to Adjust the subscribers loyalty points Balance either negatively or positively via High-speed

Table 569 - Provision : Adjust Loyalty Points InParameterList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| AMOUNT | Mandatory | String(10) | Amount to adjust/reduce the subscriber Loyalty points  eg. 10000 – increases, -10000 - decreases |
| TRANS ID | Optional | String | Optional field that external syste will have to pass eg.123 |

### Provision: Add Voice Bundle {ADDVBN}

Function Selector: ADDVBN

IDL Function: PerformFunction

Table 570 - Provision : Add Voice Bundle- InParameterList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| KEYWORD | Mandatory | String(15) | This is used to select which service (volume) is required.  Cheka1000Voice  Cheka150Voice  Cheka2000voice  Cheka200Voice  Cheka400Vocie  Cheka5000voice  Cheka500Voice  ChekaVoiceOnce  Pontis Keywords:  ChekaV200-D7N,ChekaV200-D7P,ChekaV500-D1N,ChekaV500-D2N,ChekaV500-D2P  ChekaV500-D7N,ChekaV500-D7P,ChekaV1000-D2N,ChekaV1000-D2P,ChekaV1000-D7N  ChekaV1000-D7P,ChekaV2000-D2N,ChekaV2000-D2P,ChekaV2000-D7N,ChekaV2000-D7P  ChekaV3000-D2N,ChekaV3000-D2P,ChekaV3000-D7N,ChekaV3000-D7P,ChekaV5000-D2N  ChekaV5000-D2P,ChekaV5000-D7N,ChekaV5000-D7P,ChekaV7000-D7N,ChekaV7000-D7P  ChekaV10000-D7N,ChekaV10000-D7P,ChekaFR15M-D7,ChekaFR50M-D2,ChekaFR50M-D7 |
| TRANS ID | Optional | String | Optional field that external syste will have to pass eg. 123 |
| CHARGE MODE | Optional | String | Charge mode 1 = charge subscriber  Charge mode 0 = do not charge |

DRC Keywords - V0026, V0052, V0157, V0263, V0526, V0789, V1052

### Provision: Delete Voice Bundle {DELVBN}

Function Selector: DELVBN

IDL Function: PerformFunction

Table 571 - Provision : Delete Voice Bundle- InParameterList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| TRANS ID | Optional | String | Optional field that external syste will have to pass |
| KEYWORD | Mandatory | String(15) | This is used to select which service (volume) is required.  Cheka1000Voice  Cheka150Voice  Cheka2000voice  Cheka200Voice  Cheka400Vocie  Cheka5000voice  Cheka500Voice  ChekaVoiceOnce  Pontis Keywords:  ChekaV200-D7N,ChekaV200-D7P,ChekaV500-D1N,ChekaV500-D2N,ChekaV500-D2P  ChekaV500-D7N,ChekaV500-D7P,ChekaV1000-D2N,ChekaV1000-D2P,ChekaV1000-D7N  ChekaV1000-D7P,ChekaV2000-D2N,ChekaV2000-D2P,ChekaV2000-D7N,ChekaV2000-D7P  ChekaV3000-D2N,ChekaV3000-D2P,ChekaV3000-D7N,ChekaV3000-D7P,ChekaV5000-D2N  ChekaV5000-D2P,ChekaV5000-D7N,ChekaV5000-D7P,ChekaV7000-D7N,ChekaV7000-D7P  ChekaV10000-D7N,ChekaV10000-D7P,ChekaFR15M-D7,ChekaFR50M-D2,ChekaFR50M-D7 |

### Provision: Delete SMS Bundle {DELSMS}

Function Selector: DELSMS

IDL Function: PerformFunction

Table 572 – Provision: Delete SMS Bundle – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| TRANS ID | Optional | String | Optional field that external syste will have to pass eg. 123 |
| KEYWORD | Mandatory | String(15) | SMS25, SMS50, SMS80, SMS150, SMS300, SMS500, SMS1000, SMS5000. |

Pontis Keywords:

ChekaS200-D2,ChekaS200-D7,ChekaS500-D2

ChekaS500-D7,ChekaS1000-D2,ChekaS1000-D7

ChekaS2000-D7,ChekaFR10S-D7,ChekaFR20S-D7

ChekaFR50S-D7

### Provision: Add Call Sponsored Party {ADDCSP}

Function Selector: ADDCSP

IDL Function: PerformFunction

Country: DRC

This function will request setting a link between sponsor and sponsored party. Confirmation is not required.. The business rules are in DRFS-141 Call Sponsor.

Any prepaid subscriber can offer to sponsor another subscriber for calls. The current business rules state that a prepaid subscriber may sponsor a maximum of 5 other subscribers (currently only pre-paid subscribers may be sponsored). This is configurable on iCAP. When this limit is reached an error will be returned. Currently the Sponsor MSISDN must be a prepaid subscriber, and the Sponsored Party must be a Prepaid subscriber.

Table 573 – Provision: Create CallSponsor Link – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SPONSOR MSISDN | Mandatory | String | See *Table 2* |
| SPONSORED MSISDN | Mandatory | String | See *Table 2* |
| SELF HELP PIN | Mandatory | String(4) | e.g. 1234. |

The self help PIN is the PIN that has been set up via function PINCHG.

### Provision: Remove Call Sponsor Link {REMCSP}

Function Selector: REMCSP

IDL Function: PerformFunction

Country: DRC

This function will request removing a link between sponsor and sponsored party. The business rules are in DRFS-141 Call Sponsor.

Table 574 – Provision: Delete CallSponsor Link – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SPONSOR MSISDN | Mandatory | String | See *Table 2* |
| SPONSORED MSISDN | Mandatory | String | See *Table 2* |
| CURRENT SO ID | Mandatory | String(3) | CSC (Sponsor deleting the link)  CSP (Sponsored party deleting the link) |
| SELF HELP PIN | Mandatory | String(4) | e.g. 1234 |

### Query: Viewthrough Call Sponsored Party List {VTHICS}

Function Selector: VTHICS

IDL Function: PerformFunction

Country: DRC

The viewthrough reads the sponsored party list from the IN (Alcatel ICC). The business rules are in DRFS-141 Call Sponsor.

Table 575 – Query: Call Sponsor List – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SPONSOR MSISDN | Mandatory | String | See *Table 2* |
| SELF HELP PIN | Mandatory | String(4) | e.g. 1234 |

Query: Call Sponsor List – Out AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SPONSOR | String | MSISDN format See *Table 2* (or blank) |
| SPONSORED\_1 | String | MSISDN format See *Table 2* (or blank) |
| SPONSORED\_2 | String | MSISDN format See *Table 2* (or blank) |
| SPONSORED\_3 | String | MSISDN format See *Table 2* (or blank) |
| SPONSORED\_4 | String | MSISDN format See *Table 2* (or blank) |
| SPONSORED\_5 | String | MSISDN format See *Table 2* (or blank) |

### Query: Viewthrough List Last 5 Sponsored Calls {LSTCSP}

Function Selector: LSTCSP

IDL Function: PerformFunction

Country: DRC

The viewthrough lists the latest 5 sponsored party calls (ref DRFS-141 Call Sponsor). There may be less than 5 or no sponsored calls in the dataset. The first 5 digits of the called MSISDN will be displayed and the other digits will be masked.

Table 576 – Query: Call Sponsor Last 5 sponsored party calls – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SELF HELP PIN | Mandatory | String(4) | e.g. 1234 |

Query: Call Sponsor List – Out AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| CALLING PARTY 1 | String | 243812380797 |
| CALLED PARTY 1 | String | 24381\*\*\*\*\*\*\* |
| DURATION 1 | String | 00:00:50 |
| STARTDATE 1 | String | 05 / FEB / 12 |
| CALLING PARTY 2 | String |  |
| CALLED PARTY 2 | String |  |
| DURATION 2 | String |  |
| STARTDATE 2 | String |  |
| CALLING PARTY 3 | String |  |
| CALLED PARTY 3 | String |  |
| DURATION 3 | String |  |
| STARTDATE 3 | String |  |
| CALLING PARTY 4 | String |  |
| CALLED PARTY 4 | String |  |
| DURATION 4 | String |  |
| STARTDATE 4 | String |  |
| CALLING PARTY 5 | String |  |
| CALLED PARTY 5 | String |  |
| DURATION 5 | String |  |
| STARTDATE 5 | String |  |

### Provision: Create Self Help PIN {PINCRE}

Function Selector: PINCRE

IDL Function: PerformFunction

Country: DRC

The function creates the subscriber’s default self care pin and stores the subscriber’s secret question (text) and answer (text) the DFLT self help PIN (4 digit password) using PINCRE. The business rules are in DRFS-155 Self Help PIN. Note the secret question and answer used to be setup by PINSET, this will be merged with PINCRE.

Table 577 – Provision: PINCRE – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| PIN | Mandatory | String(4) | Subscriber selected PIN e.g. 1234 |
| SECRET QUESTION | Mandatory | String(80) | e.g. What is your favourite colour? |
| SECRET ANSWER | Mandatory | String(80) | e.g. Blue |

### Provision: Change Self Help PIN {PINCHG}

Function Selector: PINCHG

IDL Function: PerformFunction

Country: DRC, RSA

The function changes the subscriber’s self help PIN (4 digit password). The business rules are in DRFS-155 Self Help PIN. Secret Answer is optional for DRC.

Table 578 – Provision: Change Self Help PIN – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| OLD PIN | Mandatory | String(4) | e.g. 0000 (cannot be blank) |
| NEW PIN | Mandatory | String(4) | e.g. 2454 |
| VERIFY PIN | Mandatory | String(4) | e.g. 2454 |
| PRODUCT | Optional | String(20) | This parameter enables the setting of a product specific PIN.  If not supplied, the default will be the original self help PIN.  Possible Values:  DFLT (this indicates setting Default self help pin)  CSPO (this indicates setting Call Sponsor pin)  ME2U (this indicates setting Me To You pin) |
| SECRET ANSWER | Optional for DRC | String(80) | e.g. Blue  If supplied this parameter must be validated against the stored secret answer for the subscriber - Check ‘secret answer’ (SA\_VW\_SECRET\_Q\_A).  If Secret Answer incorrect or does not exist for the subscriber, then return an error  If not supplied, then bypass this validation. |

Product Specific PINs

DFLT (the original self help pin used when product specific PINs are not defined)

CSPO (for use with CALL SPONSOR functions ADDCSP, REMCSP, VTHICS, LSTCSP)

Me2U (for use with ME TO YOU functions ADDM2U)

**J1-02-4988**: For PINCHG (from Highspeed) a Product parameter is optional and the current (success) SMS message sent back to the subscriber Includes the Product.

The Product must no longer be included in the SMS, see DRFS-155 for SMS text messages.

### Provision: Reset PIN {PINRST}

Function Selector: PINRST

IDL Function: PerformFunction

Country: RSA/DRC

For RSA this function shall reset a subscribers IVR PIN when requested to do. When resetting an IVR PIN, iCAP shall remove all IVR PIN registration information i.e. IVR PIN, IVR PIN registered flag, reminder question and answer.

For DRC this function shall reset the subscriber DFLT PIN. Secret Answer is not to be supplied or checked.

Table 579 – Provision: PINRST – In AttributeList

RSA:

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUBSCRIBER ID | Mandatory | String | See *Table 2* |
| SUBSCRIBER ID TYPE | Mandatory | String | Values: M (MSISDN) or C (ICCID) |

DRC:

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | Subscriber MSISDN in 10 digit national format nnxxyyyyy where nn = NDC, xx = logical HLR or first 2 digits of MSISDN and yyyyy = last 5 digits of MSISDN or ICCID in the format ‘89980000000000010808’ |
| SUB ID TYPE | Mandatory | String | Values: M (MSISDN) or C (ICCID) |
| SECRET ANSWER | Mandatory | String(80) | e.g. Blue  This parameter is validated against a stored secret answer for the subscriber, as a security measure, when reseting the default self care pin (DFLT) in DRC. |
|  |  |  |  |

### Provision: PIN Authentication {PINAUT}

Function Selector: PINAUT

IDL Function: PerformFunction

Country: DRC

PIN Authentication. This function is used to Authenticate the subscriber default self-help PIN (via function F\_VALIDATE\_PRODUCT\_PINS for DFLT PIN). It compares the supplied PIN with the stored DFLT PIN. This will compare the submitted PIN and the stored default self help PIN and indicate the result (PIN Authentication successful/failed). The pin authentication success (PINAUS) or pin authentication failure (PINAUF) will be logged by highspeed into the audit request history (for viewing from frontend History menu via SRQ QRYAUT). Highspeed will also log the customer interaction to CIM (using P\_LOAD\_INT). The business rules are in DRFS-155 Self Help PIN.

Table 580 – Provision: PINAUT – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| PIN | Mandatory | String(4) | Subscriber selected PIN e.g. 1234 to be validated against the stored DFLT PIN |

### Provision: Secret Question Query {SECQRY}

Function Selector: SECQRY

IDL Function: PerformFunction

Country: DRC

SECQRY will retrieve the secret question for the MSISDN supplied (via QUERY\_SECRET\_Q). If none is found it will return a string indicating that “No secret question has been set up”. The business rules are in DRFS-155 Self Help PIN. This function will be used by the portal to present the question to the portal user interface.

Table 581 – Query: SECQRY – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Secret Answer Authentication {SECAUT}

Function Selector: SECAUT

IDL Function: PerformFunction

Country: DRC

SECAUT will authenticate the secret answer for the MSISDN supplied, via F\_VALIDATE\_SECRET\_Q\_A. On successful authentication of the secret answer send the message SEC\_AUTHENTICATE\_OK. If not successful send the message SEC\_AUTHENTICATE\_FAIL as per DRFS-155. This function will be used by the portal.

Table 582 – Provision: SECAUT – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String(10) | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SECRET ANSWER | Mandatory | String(80) | e.g. Blue  This parameter is validated against a stored secret answer for the subscriber, as a security measure. |

### Provision: Secret Question Answer Change {SECCHG}

Function Selector: SECCHG

IDL Function: PerformFunction

Country: DRC

SECCHG will allow the subscriber to change (update) his secret question/answer (that was originally created via PINSET function above).

SECCHG will first authenticate the PIN (via F\_VALIDATE\_PRODUCT\_PINS) and if valid, update the secret question and answer using the function F\_UPDATE\_SECRET\_Q\_A.

On successful update of the secret question/answer send the SEC\_UPDATE\_OK.

If not successful send SEC\_UPDATE\_FAIL. Ref DRFS-155.

Table 583 – Provision: SECCHG – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| PIN | Mandatory | String(4) | e.g. 1234  This parameter is validated against a stored DFLT PIN for the subscriber, as a security measure, before allowing change of the secret question/answer. |
| SECRET QUESTION | Mandatory | String(80) | e.g. What is your favourite colour?  This parameter is stored as a secret question for the subscriber, to be used as a security measure, when changing the default self care pin (DFLT) in DRC. |
| SECRET ANSWER | Mandatory | String(80) | e.g. Blue  This parameter is stored as a secret answer for the subscriber, to be used as a security measure, when changing the default self care pin (DFLT) in DRC. |

### : Validate IVR PIN {PINVAL}

Function Selector: PINVAL

IDL Function: PerformFunction

Country: RSA

This function shall validate that the IVR PIN code entered for the MSISDN is correct

Table 584 – Provision: Validate IVR Pin – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUBSCRIBER ID | Mandatory | String | See *Table 2* |
| SUBSCRIBER ID TYPE | Mandatory | String | Values: M (MSISDN) or C (ICCID) |
| PIN | Mandatory | String | IVR Pin |

Table 585– Provision: Validate IVR Pin – Out AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| RESULT | Mandatory | String | Correct PIN  Incorrect PIN entered |

### Provision: Validate Subscriber Reminder Question {RQSVAL}

Function Selector: RQSVAL

IDL Function: PerformFunction

Country: RSA

This function shall validate that the reminder answer entered for the MSISDN is correct

Table 586 – Provision: Validate Subscriber Reminder Question – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUBSCRIBER ID | Mandatory | String | See *Table 2* |
| SUBSCRIBER ID TYPE | Mandatory | String | Values: M (MSISDN) or C (ICCID) |
| REMINDER QUESTION SEQ | Mandatory | String | The reminder question sequence number linked to the question that the subscriber elected when registering |
| REMINDER ANSWER | Mandatory | String | The reminder answer that subscriber elected when registering |

Table 587– Provision: Validate Subscriber Reminder Question – Out AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| RESULT | Mandatory | String | Correct Reminder Answer  Incorrect Reminder Answer entered |

### Provision: Deregister IVR {DRGIVR}

Function Selector: DRGIVR

IDL Function: PerformFunction

Country: RSA

This function shall update the subscriber’s IVR registration attribute to ‘Deregistered’.

Table 588 - Provision: Validate IVR Pin- InParameterList

| Parameter Name | Mandatory/Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUBSCRIBER ID | Mandatory | String | See *Table 2* |
| SUBSCRIBER ID TYPE | Mandatory | String | Values: M (MSISDN) or C (ICCID) |

### Provision: Add Subscriber IVR Pin and Reminder Question {ADDIVR}

Function Selector: ADDIVR

IDL Function: PerformFunction

Country: RSA

This function shall add either the subscribers PIN or reminder question and answer, or both values per subscriber. Either the PIN or reminder question or both can be added.

Table 589 – Provision: Add Subscriber IVR Pin and Reminder Question – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUBSCRIBER ID | Mandatory | String | See *Table 2* |
| SUBSCRIBER ID TYPE | Mandatory | String | Values: M (MSISDN) or C (ICCID) |
| PIN | Conditional | String | PIN that the subscriber elected when registering |
| REMINDER QUESTION SEQ | Conditional | String | The reminder question sequence number linked to the question that the subscriber elected when registering |
| REMINDER ANSWER | Conditional | String | The reminder answer that subscriber elected when registering |

### Provision: Delete Mailbox {REQDMX}

Function Selector: REQDMX

IDL Function: PerformFunction

Country: RSA

This function shall delete a voice mailbox and set Call Forwarding to the mailbox. This will make it possible to enable Missed Call Notification.

Table 590 – Provision: Delete Mailbox – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Values: ‘MSISDN’, ‘ICCID’ |
| RESET CF | Mandatory | String | Reset call forwarding to mailbox. Values: ‘Y’ , ‘N’ |

### Provision: Recharge-Me: {RCHGME }

Function Selector: RCHGME

IDL Function: PerformFunction

Country: DRC

This function shall send a SMS to a target (recipient) MSISDN. Requesting that the recipient recharges/calls the Requester.

Table 591 – Provision: Recharge-Me – In AttributeList

| Parameter Name | Format | Parameter Value/ Description | Mandatory/ Optional |
| --- | --- | --- | --- |
| SUB ID | String | See Table 2 | Mandatory |
| SUB ID TYPE | String | Values: M (MSISDN) | Mandatory |
| RECIPIENT MSISDN | string | T11 MSISDN of SMS recipient in 12 digit format (e.g. 243813585869) | Mandatory |
| KEYWORD | string | 150 – Please Recharge Me  160 – Please Recharge Me with amount cents | Mandatory |
| RECHARGE AMOUNT | string | Optional Recharge amount (required for Message Type 160) | Optional |

### Provision: Add Broadband Usage Reporting {CREBUR}

Function Selector: CREBUR

IDL Function: PerformFunction

Country: RSA

This function shall add the Broadband reporting service to the subscriber’s profile.

Table 592 – Provision: Add Broadband Usage Reporting – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Values: M (MSISDN), C (ICCID) or E (SP ID) |
| EMAIL | Mandatory | String | A valid email address for the report destination. |

### Provision: Remove Broadband Usage Reporting {DELBUR}

Function Selector: DELBUR

IDL Function: PerformFunction

Country: RSA

This function shall remove the Broadband reporting service from the subscriber’s profile.

Table 593 – Provision: Remove Broadband Usage Reporting – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Values: M (MSISDN), C (ICCID) or E (SP ID) |

### Provision: Add Me to You Recharge {ADDM2U}

Function Selector: ADDM2U

IDL Function: PerformFunction

This function performs a Me to You Recharge (i.e. Sponsoring subscriber to Recipient subscriber).

It is called by the ZTE USSD (DRC) using ORIGIN ID = ‘ZT’. Ref DRFS-156.

Table 594 – Provision: Add Me to You Recharge – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | This is the Sponsoring Subscriber id (“Me”)  See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M - MSISDN C – ICCID Q – ICAP ID |
| MSISDN | Mandatory | String(10) | This is the recipient MSISDN (“You”) |
| AMOUNT | Mandatory | String | This is the Amount being provided to the recipient |
| SELF HELP PIN | Mandatory | String(4) | e.g. 1234 |

The self help PIN is the PIN that has been set up via function PINCHG.

### Provision: Confirm Me to You Recharge {CNFM2U}

Function Selector: CNFM2U

IDL Function: PerformFunction

This function performs a Me to You confirmation (confirming the ADDM2U request above).

Table 595 – Provision: Me to You Confirmation – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | This is the Sponsoring Subscriber id  See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M - MSISDN C – ICCID Q – ICAP ID |

### Provision: Cancel Me to You Recharge {CANM2U}

Function Selector: CANM2U

IDL Function: PerformFunction

This function performs a Me to You cancellation (cancelling the ADDM2U request above).

Table 596 – Provision: Me to You Cancellation – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | This is the Sponsoring Subscriber id  See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M - MSISDN C – ICCID Q – ICAP ID |

### Provision: Generate Email Notification {GNEMNT}

Function Selector: GNEMNT

IDL Function: PerformFunction

This function shall send a data bundle email notification to a topup subscriber.

Table 597 – Provision: Me to You Cancellation – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M - MSISDN |
| THRESHOLD | Mandatory | String | The value of the threshold reached – 3M or 0M |

### Provision: Set Roaming Data Off {RMDTOF}

Function Selector:  RMDTOF

IDL Function: PerformFunction

This function will disable data capabilities while roaming. The function is available for all subscriber types. On success an SMS will be generated for the subscriber informing the subscriber of the change in roaming status. The request will return error information to the client on the reason for failure.

Restriction for RSA only: This function is only allowed if Vodafone World and/or Travel Saver roaming is active, and Data Roaming is enabled.

Table 598 – Provision: Set Roaming Data Off – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M - MSISDN |

### Provision: Set Roaming Data On {RMDTON}

Function Selector:  RMDTON

IDL Function: PerformFunction

This function will enable data capabilities while roaming. The function is available for all subscriber types. On success an SMS will be generated for the subscriber informing the subscriber of the change in roaming status. The request will return error information to the client on the reason for failure.

Table 599 – Provision: Set Roaming Data Off – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M - MSISDN |

### Provision: Set Travel On {TRVLON}

Function Selector:  TRVLON

IDL Function: PerformFunction

This function will result in the subscriber having the Vodafone World Roaming class active with data capabilities.

This function is not available for Contract Subscribers.

On success an SMS will be generated for the subscriber informing the subscriber of the change in roaming status.

The request will return error information to the client on the reason for failure.

Table 600 – Provision: Set Roaming Data Off – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M - MSISDN |

### Provision: Set Travel Off {TRVLOF}

Function Selector:  TRVLOF

IDL Function: PerformFunction

This will cancel Vodafone World, Travel Saver and SMS Roamer should any of these roaming states are active on the subscribers profile. The subscriber will be put back the International Class with no roaming.

The function is available for all subscriber types.

On success an SMS will be generated for the subscriber informing the subscriber of the change in roaming status.

The request will return error information to the client on the reason for failure.

Table 601 – Provision: Set Roaming Data Off – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M - MSISDN |

### Provision: Add Subscriber Attribute

Function Selector: ADDSBA

IDL Function: PerformFunction

The Function will be used to provision the Heritage attribute on the subscriber profile.

Table 602 – Provision: Add Subscriber Heritage Attribute– In Attribute List

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| SUB ID | String | See Table 2 |
| SUB ID TYPE | String(6) | MSISDN or ICCID |
| ATTRIBUTE | String(6) | HTRG (Heritage) |

Table 603 – Out AttributeList

| Attribute | Format | Description |
| --- | --- | --- |
| Message | String | Success |

### Provision: Administer the Ringback Tones Service for a subscriber { UPDRBT }

Function Selector: UPDRBT

IDL Function: PerformFunction

This function will administer the RBT Service on a Subscriber’s Profile (Vodacom DRC). The required administration action is defined by the ACTION parameter value e.g REGISTER.

The feature is described in DRFS-164 CRBT Integration (This is based on Huawei CRBT in DRC).

The response to the subscriber is done by the Huawei Platform (there is no iCAP SMS).

The response of the UPDRBT function to the caller indicates request successfully submitted or failure

Table 604 - Provision: Administer RBT Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| ACTION | Mandatory | String | **Action Value (Description of the Action)**  REGISTER (Register new RBT service)  DEREGISTER (Deregister RBT service from HLR)  ACTIVATE (Activation fee for prepaid)  DEACTIVATE (Suspension of service on CRBT) |
| CODE | Optional | String | The RBT CODE on the CRBT System |

The Fee is not required on Convergent Billing Solution – CRBT will charge OCS directly.

### Provision: Mobile Money Transfer Query { MMTQRY }

Function Selector: MMTQRY

IDL Function: PerformFunction

This highspeed function will query an MSISDN for details required by the Fundamo Mobile Money Transfer platform (DRC). Initially the function will return data containing the ICAP ID.

The feature is described in DRFS-167 Mobile Money Transfer.

Table 605 - Provision: Mobile Money Transfer Query – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Mobile Money Transfer Registration Notification { MMTREG }

Function Selector: MMTREG

IDL Function: PerformFunction

This highspeed function will be used by the Fundamo Mobile Money Transfer platform to notify iCAP of the registration that has occurred on Fundamo. iCAP stores the details as service ids on the mobile money service. The feature is described in DRFS-167 Mobile Money Transfer.

Table 606 - Provision: Mobile Money Subscriber Pre-registration – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| CLIENT CODE | Mandatory | String | Mobile Money client code |
| TYPE | Mandatory | String | Mobile Money client type (INDIVIDUAL / AGENT) |
| ACCOUNT1 | Mandatory | String | Mobile Money account 1 |
| CURRENCY1 | Mandatory | String | Mobile Money currency for this account |
| ACCOUNT2 | Optional | String | Mobile Money account 2 |
| CURRENCY2 | Optional | String | Mobile Money currency for this account |
| ACCOUNT3 | Optional | String | Mobile Money account 3 |
| CURRENCY3 | Optional | String | Mobile Money currency for this account |

### Provision: Mobile Money Transfer Addition { MMTADD }

Function Selector: MMTADD

IDL Function: PerformFunction

This highspeed function will be used by the Fundamo Mobile Money Transfer platform to notify iCAP of an update (addition of account) on Fundamo. iCAP stores the details as service ids on the mobile money service. The feature is described in DRFS-167 Mobile Money Transfer.

Table 607 - Provision: Mobile Money Subscriber Pre-registration – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| CLIENT CODE | Mandatory | String | Mobile Money client code |
| TYPE | Mandatory | String | Mobile Money client type (INDIVIDUAL / AGENT) |
| ACCOUNT | Optional | String | Mobile Money account |
| CURRENCY | Optional | String | Mobile Money currency for this account |

### Enable Call Forward International Forwarding {ENCFIF}

Function Selector : ENCFIF

IDL Function: PerformFunction

This function will provision one of the following service offerings (S22 service type) on a subscriber’s profile:

S2C - Contract subscribers

S2P - Prepaid subscribers

S2H - Hybrid subscribers

Provisioning of this service will set a flag on the HP HLR (FTN-FIX-UP-NAME = VIP SPECIAL CALL FORWARDING) which will allow the HLR to divert calls to international numbers.

Table 608 - Provision: ENCFIF - AttributeList

| Parameter Name | Mandatory/ Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | ‘M’ – MSISDN or |

### Remove Call Forward International Forwarding {RMCFIF}

Function Selector : RMCFIF

IDL Function: PerformFunction

This function will remove one of the following service offerings (S22 service type) from a subscriber’s profile:

S2C - Contract subscribers

S2P - Prepaid subscribers

S2H - Hybrid subscribers

Removing this service will clear a flag on the HP HLR (FTN-FIX-UP-NAME = NULL) which will indicate that the HLR is NOT allowed to divert calls to international numbers.

Table 609 - Provision: RMCFIF - AttributeList

| Parameter Name | Mandatory/ Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | ‘M’ – MSISDN |

### Provision: Activate International Calling Plus { ACTICP }

Function Selector: ACTICP

IDL Function: PerformFunction

This highspeed function will be used to activate the international calling Plus service

Table 610 - Provision: Activate International Call Promo – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Deactivate International Calling Plus { DEAICP }

Function Selector: DEAICP

IDL Function: PerformFunction

This highspeed function will be used to activate the international calling plus service

Table 611 - Provision: Deactivate International Call Promo – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Add 3G Service to Subscriber { ADD3GS }

Function Selector: ADD3GS

IDL Function: PerformFunction

This highspeed function will be used by Vodacom DRC to Add 3G service.

Table 612 - Provision: Add 3G Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Remove 3G Service from Subscriber { REM3GS }

Function Selector: REM3GS

IDL Function: PerformFunction

This highspeed function will be used by Vodacom DRC to Remove 3G service.

Table 613 - Provision: Remove 3G Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Add Data Bundle {ADWBUN} synchronous

Function Selector: ADWBUN

IDL Function: PerformFunction

External systems (e.g. DRC Web Portal) call ADWBUN function to add the required adhoc data bundle service offering on G03 service type. The keyword represents the volume of the Adhoc Data Bundle.

Table 614 – Provision: ADWBUN – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| RECIPIENT | Optional | String (10) | Recipient Subscribers MSISDN in 10 digit format. |
| KEYWORD | Mandatory | String | The possible values of KEYWORD are:  **DRC Keywords** –  DDB5M, DB2M, DB15M, DB40M, DB150M, DB500M, DB2G  Recurring Data Bundles - CH010, CH012, CH020, CH024, CH050, CH060, CH100, CH120, CH150, CH200, CH240, CH300, CH500, GR500, GR050, GR150, GR250 |
| AMOUNT | Optional | Numeric | Funds to be deducted from SUB ID main account - entered in cents. So if bundle cost is $1. 100 is entered and 10000 is sent to IN. |
| TRANS ID | Optional | String | Optional field that external system will have to pass eg. 123 |

### Provision: Add SMS Bundle {ADWSMS} synchronous

Function Selector: ADWSMS

IDL Function: PerformFunction

Table 615 – Provision: ADWSMS – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| KEYWORD | Mandatory | String(15) | This is used to select which service (volume) is required. |
| RECIPIENT | Optional | String (10) | Recipient Subscribers MSISDN in 10 digit format. |
| AMOUNT | Optional | Numeric | Funds to be deducted from SUB ID main account - entered in cents. So if bundle cost is $1. 100 is entered and 10000 is sent to IN. |
| TRANS ID | Optional | String | Optional field that external system will have to pass e.g. 123 |
|  |  |  |  |

DRC – ZTE Bundles

A005, A015, A100

### Provision: Add Voice Bundle {ADWVBN} synchronous

Function Selector: ADWVBN

IDL Function: PerformFunction

Table 616 - Provision : ADWVBN- InParameterList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| KEYWORD | Mandatory | String(15) | This is used to select which service (volume) is required.  DRC Keywords - V0026, V0052, V0157, V0263, V0526, V0789, V1052 |
| RECIPIENT | Optional | String (10) | Recipient Subscribers MSISDN in 10 digit format. |
| AMOUNT | Optional | Numeric | Funds to be deducted from SUB ID main account - entered in cents. So if bundle cost is $1. 100 is entered and 10000 is sent to IN. |
| TRANS ID | Optional | String | Optional field that external syste will have to pass eg. 123 |

DRC Keywords - V0026, V0052, V0157, V0263, V0526, V0789, V1052

### Provision: Renew WiMax M2M {RWWM2M} synchronous

Function Selector : RWWM2M

IDL Function: PerformFunction

The Renew WiMax M2M (RNWM2M) function is used to indicate that the subscriber wishes to renew a WiMax Month2Month bundle (time based or volume based bundle – Ref DRFS-139, DRFS-002, DRFS-021) on a GSM offer.

For WM4 services this will log a FORCE SYNC MNGPOF/MNGOFF request. BADSV1 will be 1st command and if this fails the request rolls back and sends an SMS to the sponsor – DRFS-0229.

Table 617: RWWM2M Input Parameters

| Attribute Name | Mandatory /Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | M |
| BUNDLE | Optional  Mandatory (WM4) | String(15) | This is used to select which bundle the subscriber wishes to renew.  The value supplied must be one of the service offerings under the WM3 service type (Wimax bundles), for the relevant offer the subscriber is currently on. Refer to the Offer Specs DRFS-002 and DRFS-021 for WM3 services.  Alternatively the value may be omitted. In this case, the subscriber is requesting a renewal of the bundle he had. |
| RECIPIENT | Optional | String (10) | Recipient Subscribers MSISDN in 10 digit format. |
| AMOUNT | Optional | Numeric | Funds to be deducted from SUB ID main account - entered in cents. So if bundle cost is $1. 100 is entered and 10000 is sent to IN. |

### Provision: Activate the Blackberry service {ACWBLB} synchronous

Function Selector: ACWBLB

IDL Function: PerformFunction

This function will activate the Blackberry service on the Blackberry Internet Sevice platform.

DRC Functionality

1. If this function called by ZTE using ORIGIN ID = ‘ZT’ the function will do the purchase request to deduct funds on the DRC ICC IN and add the Blackberry Bundle on the IN. After the successful funds deduction, the PWE will query subscriber profile (QSBSRV) to validate that the subscriber has the GPRS service. PWE then executes manage offer, which will add Blackberry service as well as GPRS (if it is not already subscribed).
2. If this function is called by PPFE there is no funds deduction (PPFE provisions the IN). The highspeed will query subscriber profile (QSBSRV) to validate that the subscriber has the GPRS service. Highspeed then executes manage offer, which will add Blackberry service, as well as GPRS (if not already subscribed).
3. The blackberry service is provisioned to RIM. No mailbox size shall be provisioned as the Blackberry platform (RIM) does not handle mailboxes.
4. The RECIPIENT parameter is used when purchasing blackberry for friend (the recipient).

Table 618 – Provision: ACWBLB– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M - MSISDN C – ICCID Q – ICAP ID |
| KEYWORD | Mandatory | String(30) | Keyword indicating which Blackberry service to activate  BLP, BB1, BB7, BB30, BB90, BB180 (DRC) |
| RECIPIENT | Optional | String (10) | Recipient Subscribers MSISDN in 10 digit format. |
| AMOUNT | Optional | Numeric | Funds to be deducted from SUB ID main account - entered in cents. So if bundle cost is $1. 100 is entered and 10000 is sent to IN. |
| EXPIRY DATE | Optional | DATETIME | Expiry Date to provision PPFE for expiry process |

### Provision: Add Staff Data Friend – {ADDSDF}

Function Selector: ADDSDF

IDL Function: PerformFunction

Vodacom TZN staff using a modem on the data offer SHIC can have a staff data friend. The staff data friend relationship is set up by staff from USSD Menu via a call to highspeed function ADDSDF. Ref feature specification TZFS-175. If a friend already exists it can be changed to a new value MSISDN. ADDSDF can only be used once per month.

Table 619 – Provision: Add Staff Data Friend – In AttributeList

| Attribute Name | Mandatory? | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(6) | MSISDN |
| FRIEND MSISDN | Mandatory | String(10) | Staff Subscriber’s MSISDN in 10 digit format [3.2] |

### Provision: Delete Staff Data Friend – {DELSDF}

Function Selector: DELSDF

IDL Function: PerformFunction

See ADDSDF above. The staff data friend relationship can be deleted from the staff USSD menu (remove reference to staff data friend on the Staff and on the Friend subscribers).

Table 620 – Provision: Delete Staff Data Friend – In AttributeList

| Attribute Name | Mandatory? | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(6) | MSISDN |

### Provision: Remove Credit Service – {REMCSV}

Function Selector: REMCSV

IDL Function: PerformFunction

VxView can remove the credit service when it is paid off. This is for festive season device (DRFS-177). Since the subscriber can have more than one credit service (device), the required SERVICE must be provided.

Table 621 – Provision: Remove Credit Service – In AttributeList

| Attribute Name | Mandatory? | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(6) | MSISDN |
| SERVICE | Mandatory | String | The service offering ID that is being removed e.g. FD1  (value will be as was previously provisioned to VxView) |

### Provision: Add Missed Call Notification – {ADDMCN}

Function Selector: ADDMCN

IDL Function: PerformFunction

Vodacom TZN Missed Call Notification on Jinny. Ref feature specification TZFS-177.

Table 622 – Provision: Add Missed Call Notification – In AttributeList

| Attribute Name | Mandatory? | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(6) | MSISDN |

### Provision: Remove Missed Call Notification – {REMMCN}

Function Selector: REMMCN

IDL Function: PerformFunction

Vodacom TZN Missed Call Notification on Jinny. Ref feature specification TZFS-177.

Table 623 – Provision: Remove Missed Call Notification – In AttributeList

| Attribute Name | Mandatory? | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(6) | MSISDN |

### Provision: Register / Update Email Address – {UPDEML}

Function Selector: UPDEML

IDL Function: PerformFunction

Vodacom DRC Bundle Activation via the Web DRFS-160.

Table 624 – Provision: Remove Missed Call Notification – In AttributeList

| Attribute Name | Mandatory? | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(6) | MSISDN |
| EMAIL | Mandatory | String | Email address e.g. smithandrew@gmail.com |

Will call iCAP request UPDDET or ADEML see DRFS-166 Email Registration via SMS for details.

### Provision: Set Roaming Credit Limit – {SETRCL}

Function Selector: SETRCL

IDL Function: PerformFunction

Vodacom TZN – set roaming credit limit (for bill shock prevention whilst roaming).

Table 625 – Provision: Set Roaming Credit Limit – In AttributeList

| Attribute Name | Mandatory? | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(6) | MSISDN |
| CREDIT LIMIT | Mandatory | String | Value in TSh between minimum and maximum allowed  (currently 10000-120000) |
| LOCAL CREDIT LIMIT | Optional | String | Y / N if not supplied will be defaulted to ‘N’ |

This function will call iCAP request SETRCL, provision credit limit value and set package status active on unified (BillShock package), and send subscriber SMS (Ref TZFS-176). There is a default BillShock package with a default credit limit on unified even if SETRCL has not been called.

This function will be extended in J1-02-6408 to allow for a Local or Roaming credit limit to be set. The new parameter LOCAL CREDIT LIMIT will be optional and if not set will be defaulted to ‘N’. If ‘Y’ then the local credit limit will be set and the associated OCS package will be sent to OCS.

SA\_PARAMETERS will contain additional parameters for the LOCAL CREDIT LIMIT MIN and MAX for Prepaid/Hybrid and for Postpaid.

Table 626 : CREDIT LIMIT in SA\_PARAMETERS

|  |  |
| --- | --- |
| **Name** | **VALUE** |
| ROAMING\_CREDIT\_LIMIT\_MIN | 10000 |
| ROAMING\_CREDIT\_LIMIT\_MAX | 80000 |
| ROAMING\_CREDIT\_LIMIT\_MIN\_POSTP | 10000 |
| ROAMING\_CREDIT\_LIMIT\_MAXPOSTP | 400000 |
| LOCAL\_CREDIT\_LIMIT\_MIN |  |
| LOCAL\_CREDIT\_LIMIT\_MAX |  |
| LOCAL\_CREDIT\_LIMIT\_MIN\_POSTP |  |
| LOCAL\_CREDIT\_LIMIT\_MAX\_POSTP |  |

### Provision: Cancel Roaming Credit Limit – {CANRCL}

Function Selector: CANRCL

IDL Function: PerformFunction

Vodacom TZN – cancel roaming credit limit (for bill shock prevention whilst roaming).

Table 627 – Provision: Set Roaming Credit Limit – In AttributeList

| Attribute Name | Mandatory? | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(6) | MSISDN |
| LOCAL CREDIT LIMIT | Optional | String | Y / N if not supplied will be defaulted to ‘N’ |

This function will call iCAP request CANRCL, provision unified (set BillShock package status inactive), and send subscriber SMS (Ref TZFS-176). There is a default BillShock package with a default credit limit on unified even if SETRCL has not been called, so the status can always be set inactive.

If LOCAL CREDIT LIMIT = ‘Y’ then send associated OCS package with status inactive.

### Query: Query Roaming Credit Limit – {QRYRCL}

Function Selector: QRYRCL

IDL Function: PerformFunction

Vodacom TZN – query roaming credit limit (bill shock prevention whilst roaming).

Table 628 – Query: Query Roaming Credit Limit – In AttributeList

| Attribute Name | Mandatory? | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(6) | MSISDN |
| LOCAL CREDIT LIMIT | Optional | String | Y / N if not supplied will be defaulted to ‘N’ |

This function will call query unified (BillShock / BillShockLocal package), and send subscriber SMS (Ref TZFS-176) showing the limit.

There is a default BillShock / BillShockLocal package on unified even if SETRCL has not been called.

### Query: Query Roaming Credit Balance – {QRYRCB}

Function Selector: QRYRCB

IDL Function: PerformFunction

Vodacom TZN – query roaming credit balance (bill shock prevention whilst roaming).

Table 629 – Query: Query Roaming Credit Balance – In AttributeList

| Attribute Name | Mandatory? | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(6) | MSISDN |
| LOCAL CREDIT LIMIT | Optional | String | Y / N if not supplied will be defaulted to ‘N’ |

This function will call query unified (BillShock / BillShockLocal package), and send subscriber SMS (Ref TZFS-176) showing the balance.

There is a default BillShock / BillShockLocal package on unified even if SETRCL has not been called.

### Provision: Self Registration – {SLFREG}/

Function Selector: SLFREG

IDL Function: PerformFunction

Vodacom DRC – for self registration of prepaid subscribers.

Table 630 : Prepaid Self Registration (Legal) – In AttributeList

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | ‘M’ for MSISDN. |
| SURNAME | Mandatory | String | Nom |
| NAME | Mandatory | String | Prénom |
| INITIALS | Mandatory | String | Postnom |
| NATIONALITY | Mandatory | String | ID Nationality. Values determined by lookup as defined in section 0 (Nationalité) |
| BIRTH DATE | Mandatory | String | Birth date dd/mm/yyyy (jj/mm/yyyy) |
| BIRTH PLACE | Mandatory | String | Town or place born. |
| ADDRESS TYPE | Mandatory | String | ‘S’ for street address, ‘P’ for postal address |
| STREET NO | Mandatory | String | Street No (Numéro) |
| STREET NAME | Mandatory | String | Street (Avenue) |
| SUBURB | Mandatory | String | Suburb (Commune) |
| TOWN | Mandatory | String | Town or City (Ville) |
| ID NUMBER | Optional | String | If not provided set to ‘0000’ |
| ID NUMBER TYPE | Optional | String | If not provided set to ‘RCD-ID’ |
| LANGUAGE | Mandatory | String | Values determined by lookup as defined in section 0. Use lookup ‘LANGUAGE’ to find values. |

Will log iCAP request CRERGL for prepaid MSISDN, the MSISDN is not already registered.

### Provision: Answer Survey {ANSSVY}

Function Selector: ANSSVY

IDL Function: PerformFunction

Vodacom DRC – CSI saving responses to survey questions.

Table 631 : Answer Survey - In AttributeList

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | ‘M’ for MSISDN. |
| REGION | Mandatory | String | Region |
| SUBURB | Mandatory | String | Suburb (Commune) |
| TOWN | Mandatory | String | Town or City (Ville) |
| ANSWER\_1 | Mandatory | String | An Integer in range specified by the Question  e.g. 0..10 |
| ANSWER\_2 | Optional | String | An Integer in range specified by the Question  e.g. 0..10 |
| ANSWER\_3 | Optional | String | An Integer in range specified by the Question  e.g. 0..10 |
| ANSWER\_4 | Optional | String | An Integer in range specified by the Question  e.g. 0..10 |
| ANSWER\_5 | Optional | String | An Integer in range specified by the Question  e.g. 0..10 |
|  |  |  |  |

### Provision: Deactivate Push Sales Channel {REMPSC}

Function Selector: REMPSC

IDL Function: ExecFunction

This function will disable the Push sales screen presented for a subscriber when recharging with more than a set amount.

Table 632 - Provisioning: Deactivate Push Sales Channel – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
| ActionAttributeList | Mandatory | Structure | See Table Table 485: Input Parameters – Subscriber Attribute Action “A\_SUATTR\_ACTION\_LIST “ for details |

Table 633: Input Parameters – Subscriber Attribute Action “A\_SUATTR\_ACTION\_LIST “

| Field Name | Format | Parameter Value Description | Value | Description |
| --- | --- | --- | --- | --- |
| SAT\_ID | string | SAT\_ID | PSC\_OPT | Attribute type ID |
| CURRENT\_SAC\_ID | string | CURRENT\_SAC\_ID | NULL | Currently active attribute |
| NEW\_SAC\_ID | string | NEW\_SAC\_ID | OPT\_OUT | Attribute to be activated |
| DATE\_FROM | string | DATE\_FROM | SYSDATE | Date from which attribute is active |
| DATE\_TO | string | DATE\_TO | NULL | NULL for all actions except a Delete/remove |

### Provision: Activate Push Sales Channel {ADDPSC}

Function Selector: ADDPSC

IDL Function: ExecFunction

This function will enable the Push sales screen presented for a subscriber when recharging with more than a set amount.

Table 634 - Provisioning: Activate Push Sales Channel – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
| ActionAttributeList | Mandatory | Structure | See Table Table 485: Input Parameters – Subscriber Attribute Action “A\_SUATTR\_ACTION\_LIST “ for details |

Table 635: Input Parameters – Subscriber Attribute Action “A\_SUATTR\_ACTION\_LIST “

| Field Name | Format | Parameter Value Description | Value | Description |
| --- | --- | --- | --- | --- |
| SAT\_ID | string | SAT\_ID | PSC\_OPT | Attribute type ID |
| CURRENT\_SAC\_ID | string | CURRENT\_SAC\_ID | OPT\_OUT | Currently active attribute |
| NEW\_SAC\_ID | string | NEW\_SAC\_ID | NULL | Attribute to be activated |
| DATE\_FROM | string | DATE\_FROM | NULL | Date from which attribute is active |
| DATE\_TO | string | DATE\_TO | SYSDATE | NULL for all actions except a Delete/remove |

### Provision: Create Mailbox {CREMBX}

Function Selector: CREMBX

IDL Function: PerformFunction

This function will create a Mailbox on the NGCSS VMS platform – please refer to DRFS-199 for details of provisioning.

For VMS\_NGCSS\_TO\_INSTAVOICE = ‘Y’ this method will not be allowed.

Table 636 - Provisioning: Modify Mailbox – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
| SERVICE CLASS | Optional | String | Default 1  1112 - VMS and MCA  1114 - MCA and CMN  1117 - MCA ONLY  1118 - CMN ONLY  1120 - VMS ONLY  1121 - CMN French Test  2222 - Premium |
| ENTRY AUTHENTICATE | Optional | String | Default 1=activate password, 0=deactivate password |
| MESSAGE NOTIFY | Optional | String | See 3.4.3.  Only Dial Out or SMS available. |
| USERNAME | Optional | String | Alphanumeric – default is null. |
| EMAIL | Optional | String | Not required as email notification not available |
| ZIPCODE | Optional | String | Postal Code of mailbox – default is null. |
| ID NUMBER | Optional | String | ID of mailbox owner – default is null. |
| MWN TYPE | Optional | String | The new voicemail notification type:  0 NoRmal Text  1 GSM SMPP  2 CDMA SMPP  3 EPI Command  4 IS41 SMSREQ |
| MWN DEST | Optional | String | The notification number for new voice mail.  Default is the same with the BoxNumber |
| MMS DEST | Optional | String | MMS push notification number. Default is the same with the BoxNumber |
| LD OPERATOR CODE | Optional | String | The long-distance operator access code used for call return in voice mail service or for call back number in MCA short message.  Default value is system parameter. |
| TERMINAL TYPE | Optional | String | The Terminal type  0-common mobile telephone  1-Apple Iphone  Default 0 |
| BILLING NUMBER | Optional | String | Caller number of out-dial calling to send fax |
| SMS NOTIFY PHONE | Optional | String | number of receiving SMS Notification, Default is BoxNumber |
| SECONDARY 1 | Optional | String | The secondary number 1 binding with mailbox |
| SECONDARY 2 | Optional | String | The secondary number 2 binding with mailbox |
| SECONDARY 3 | Optional | String | The secondary number 1 binding with mailbox |
| SECONDARY 4 | Optional | String | The secondary number 4 binding with mailbox |
| SECONDARY 5 | Optional | String | The secondary number 5 binding with mailbox |
| USER TYPE | Optional | String | The user type  0-prepaid  1-postpaid  Default 0 |
| USER STATUS | Optional | String | status of mailbox:  1 normal/in using  2 suspend  3 reset  4-deactivate/freeze |
| BRAND CODE | Optional | String | Currently not available should be left blank |

Table 637 - Create Mailbox - Out AttributeList

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Format | Values | |
| RESULT CODE | Integer | 0 | Succeed |
| 1 | mailbox number is not supplied |
| 3 | mailbox number has registered |
| 5 | no available license |
|  |  | 6 | password format is wrong; It shall be a numeric number |
|  |  | 7 | Failure in operating database |
|  |  | 8 | undefined message type |
|  |  | 9 | wrong parameter format |
|  |  | 10 | system failure |
|  |  | 11 | nonsupport notification mode |
|  |  | 12 | Email address is not provided when choose email notification |
|  |  | 13 | operator does not exist or password is wrong |
|  |  | 14 | not right of this operator |
|  |  | 15 | Service Class is not defined. |
|  |  | 16 | Certain parameter is out of valid range. |
|  |  | 17 | LDOperatorCode is not in the valid LDOperatorCode list |
|  |  | 18 | This mailbox is waiting deletion now. |
|  |  | 19 | no available iphone license |
|  |  | 20 | Failure to save MMS notification info |
|  |  | 24 | The malbox number does not belong to the site |
|  |  | 25 | The operator cannot operate this mailbox,because the mailbox do not belong to it. |
|  |  | 26 | The mailbox does not belong to any operator. |
|  |  | 27 | The operator does not exist in the ZTE's inner VMS sytem. |
| DESCRIPTION | String(100) |  | The description string for return code |

### Provision: Modify Mailbox {MODMBX}

Function Selector: MODMBX

IDL Function: PerformFunction

This function will modify a Mailbox on the NGCSS VMS platform –.

please refer to DRFS-199 for details of provisioning for VMS\_NGCSS\_TO\_INSTAVOICE = ‘N’.

This function will modify a Mailbox on the KIRUSA platform – please refer to DRFS-0232 for details of provisioning for VMS\_NGCSS\_TO\_INSTAVOICE = ‘Y’

Table 638 - Provisioning: Modify Mailbox – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
| SENDAVS | Mandatory | String | Yes / No |
| RECAVS | Mandatory | String | Yes / No |

Table 639 - Modify Mailbox - Out AttributeList

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Format | Values | |
| RESULT CODE | Integer | 0 | Succeed |
| 1 | mailbox number is not provided |
| 4 | mailbox does not exist |
| 5 | no available license |
|  |  | 6 | password is wrong; not all are numeric number |
|  |  | 7 | failure in operating database |
|  |  | 8 | undefined message type |
|  |  | 9 | wrong parameter format |
|  |  | 10 | system failure |
|  |  | 11 | Nonsupport notification mode |
|  |  | 12 | Email address is not provided when choose email notification |
|  |  | 13 | operator does not exist or password is wrong |
|  |  | 14 | not right of this operator |
|  |  | 15 | ServiceClass is not defined. |
|  |  | 16 | Certain parameter is out of valid range. |
|  |  | 17 | LDOperatorCode is not in the valid LDOperatorCode list |
|  |  | 18 | This mailbox is waiting deletion now. |
|  |  | 19 | no available iphone license |
|  |  | 21 | Failure to modify MMS notification info |
|  |  | 22 | Failure to modify SMS notification info |
|  |  | 23 | Failure to modify bindnumber info |
|  |  | 24 | The malbox number does not belong to the site |
|  |  | 25 | The operator cannot operate this mailbox,because the mailbox do not belong to it. |
|  |  | 26 | The mailbox does not belong to any operator. |
|  |  | 27 | The operator does not exist in the ZTE's inner VMS sytem. |
| DESCRIPTION | String(100) |  | The description string for return code |

### Provision: Delete Mailbox {DELMBX}

Function Selector: DELMBX

IDL Function: PerformFunction

This function will delete a Mailbox on the NGCSS VMS platform – please refer to DRFS-199 for details of provisioning.

If VMS\_NGCSS\_TO\_INSTAVOICE = ‘Y’ then provisioning will got KIRUSA see DRFS-0232.

Table 640 - Provisioning: Delete Mailbox – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |

Table 641 - Delete Mailbox - Out AttributeList

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Format | Values | |
| RESULT CODE | Integer | 0 | Succeed |
| 1 | mailbox number is not provided |
| 4 | mailbox does not exist |
| 7 | Failure in operating database |

### Provision: Add Document Reference – {DIDREG}

Function Selector: DIDREG

IDL Function: PerformFunction

Table 642: Add Document Reference – Attribute List

| Parameter Name | Mandatory/  Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Value: ‘MSISDN’ |
| DOC REF NO | Mandatory | String | **TBC by Papersoft** |
| CHANNEL | Optional | String | Validate using L\_DMS\_CHANNEL lookup and if not supplied default it to ‘CAM’. Refer to DRFS-0207. |
| SUB UNIQUE KYC ID | Optional | String(32) | Alphanumeric max 32 chars long. |

### Set Subscriber Link {SETLNK}

Function Selector: SETLNK

IDL Function: PerformFunction

The function will be used to capture the subscribers chosen destination MSISDN that receives the notification for the Smart Home device.

Table 643 - Provisioning: Set Subscriber Link – In AttributeList

| **Attribute Name** | **Mandatory/Optional** | **Format** | **Attribute Value Description** |
| --- | --- | --- | --- |
| SUBSCRIBER ID | Mandatory | String | See Table 2 |
| SUBSCRIBER ID TYPE | Mandatory | String | Value: ‘MSISDN’ |
| LINK SUBSCRIBER ID | Mandatory | String | New MSISDN - 10 digit format or MSISDN in number plan appropriate format (3.2) |
| LINK SUBSCRIBER ID TYPE | Mandatory | String | Value: ‘MSISDN’ |

### Manage Bundle {MNGBUN}

Function Selector: MNGBUN

IDL Function: PerformFunction

This function will be used to subscribe / unsubscribe Africa Roaming Bundles.See DRFS-0212.

Table 644 : Provisioning: Manage Bundle- In Attribute List

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | MSISDN |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
| RECIPIENT | Optional | String | Recipient Subscriber’s MSISDN in 10 digit format.Recipient is not required to unsubscribe a service. **Recipient should be ignored if received with ACTION = UNSUBSCRIBE.** |
| KEYWORD | Mandatory | String | The possible values of KEYWORD are:  **DRC Keywords** – RMDLBN, RMWLBN, RMMLBN. |
| TRANS ID | Optional | String | Optional field that external system will have to pass eg. 191 |
| VALID MODE | Optional | String | Indicates when the bundle will be valid:  •IMMED – Default (OCS mapping in INWHA – 4050000)  •NXTBCC – (OCS mapping in INWHA – 4050001)  •NXTDAY – (OCS mapping in INWHA – 4050002) |
| ACTION | Optional | String | Default action is SUBSCRIBE.  Allowed values will be SUBSCRIBE and UNSUBSCRIBE, to add and remove any subscription, respectively, on the subscriber.  Unsubscribe will use the SUB ID (Note: a RECIPIENT’s MSISDN is not allowed). |

### Provision: Activate Vodacom Travel Bundle 10 and other Roaming services {VTBON1}

Function Selector:  VTBON1

IDL Function: PerformFunction

This function will attempt to change the subscriber’s roaming status to Vodacom Travel Bundle, Red Travel Bundle, Red Roaming, Worry Free Integrated or Worry Free Data.

The following business rule applies:

* The subscriber must have an active Roaming service. If not, Roaming will first be activated before the bundle or service is added to the profile. This also applies if the subscriber has SMS Roamer service only.
* Any existing roaming service (not ROM) will automatically be terminated before this request is attempted. If termination fails, an error will be generated and this request will not be attempted.
* These service offerings are mutually exclusive.
* These service offerings are applicable to all payment types, i.e for Prepaid, Topup and Contract subscribers.

The request shall assign one of the following Vodacom Travel Data Bundles:

* DRC1 – Vodacom Travel Data Bundle 50MB (default)
* DRC2 – Vodacom Travel Data Bundle 100MB
* DRC3 – Vodacom Red Travel Data Bundle
* RR1 – Vodacom Red Roam
* RR3 – Worry Free Integrated Bundle 7 day
* RR4 – Worry Free Integrated Bundle 3 day
* RR5 - Worry Free Integrated Bundle 1 day
* RR6 – Worry Free Data 300MB
* RR7 – Worry Free Data 200MB
* RR8 – Worry Free Data 100MB
* RR9 – Worry Free Data 50 MB

Table 626 - Provision: Activate Vodacom Travel Bundle 10 – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 description and example column |
| SUB ID TYPE | Mandatory | String(1) | See Table 2 ID type and indicator columns |
| BUNDLE SIZE | Optional | String (6) | This will contain the bundle size and/or service code. SOID to be activated in iCAP is in *underlined italics* below: 50 (*DRC1*) 100 (*DRC2*) RED100 (*DRC3*) REDROAM (*RR1*)  RR3 *(*Worry Free Integrated Bundle 7 day*)*  RR4 *(Worry Free Integrated Bundle 3 day)*  RR5 *(Worry Free Integrated Bundle 1 day)*  RR6 *(Worry Free Data 300MB)*  RR7 *(Worry Free Data 200MB)*  RR8 *(Worry Free Data 100MB)*  RR9 *(Worry Free Data 50 MB)* If the field is empty default to 50 |

### Provision: Deactivate Vodacom Travel Bundle 10 and other Roaming services {VTBOFF}

Function Selector: VTBOFF

IDL Function: PerformFunction

This function will change the subscriber’s roaming status to the default roaming status for the subscriber.

If the subscriber opt-out from Red Roam(RR1), the subscriber’s roaming status has to be reverted to the Red Travel Saver service the subscriber had when opt-in to Red Roam(RR1).

The subscriber has to be in the following state:

* Be a Roaming class subscriber with Vodacom Travel Bundle Roaming active.
* Red Roam opt-out can be done at any time. Any remaining Red Roam bundles will be available until expiry.
* Red Roam opt-out will trigger a SMS notification to the customer indicating that the service will be terminated on current bundle expiry.
* Red Roam opt-out will re-activate the Red Travel Saver service active at the time opt-in was processed for Red Roam.

Table 645 - Provision: Deactivate Vodacom Travel bundle Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 description and example column |
| SUB ID TYPE | Mandatory | String(1) | See Table 2 ID type and indicator columns |

### Provision: Create and Activate a Subscriber {CREACT}

Function Selector: CREACT

IDL Function: PerformFunction

This function will create the subscriber on HLR and Activate the subscriber on iCAP for TZN Dynamic SIM provisioning.

Only IMSIs that belong to an available numberless starter pack SIM on the SA\_SIMS table will be accepted and will log a PRPPSP request in the DB.

Table 646 - Provision: Create and Activate a Subscriber – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | Subscriber IMSI value e.g. 655019800005125 - 15 digit format |
| SUB ID TYPE | Mandatory | String(1) | S (IMSI) |

### Provision: Add PCRF Bundle {ADPCRF}

Function Selector: ADPCRF

IDL Function: PerformFunction

Country: Tanzania

This function will provision a unified package to PCRF network element.

The function will query the payment type and map the short code to a PCRF Bundle (PCR service type) as per TZFS-0195 PCRF. The function will add the PCRF bundle via a MNGOFF/MNGPOF request, which will execute a subscribe package command onto PCRF.

Table 647 - Provision: Add PCRF Bundle – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SHORT CODE | Mandatory | String(50) | Example short code values:  \*137\*2\*1\*1\*$2# (where $2 is the MSISDN)  \*137\*3\*1# (no MSISDN) |

### Provision: Send Subscriber Registration Details {SNDSRD}

**Replaced by SNDSR2 J1-02-6187.**

Function Selector: SNDSRD

IDL Function: PerformFunction

Country: Tanzania

This function will be called by TZN’s ERS system (CORBA Interface) to change the subscriber’s legal status. See TZFS-199 [[20]](#DecRef20) for more information .

Table 648 - Provision: Send Subscriber Registration Details – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| FIRST NAME | Mandatory | String | Maximum 20 characters |
| LAST NAME | Mandatory | String | Maximum 64 characters |
| ID TYPE | Mandatory | String | e.g. Voters ID, Student ID, Employer ID as mentioned in TZFS-133 section 4.1.2. |
| ID NUMBER | Mandatory | VARCHAR2(50) | Maximum 50 characters |
| REG\_STATE | Mandatory | String | Allowed values will be:  FREG – fully registered (default)  TREG – temporarily registered |
| AGENT NAME | Optional | String | e.g. Sayayi Sengerema |
| AGENT CODE | Optional | String | 13243 |
| DOB | Optional | String | Subscriber’s date of birth  TZN will send in this format: SUBSCRIBER DOB (DD/MM/YYYY) |

### Provision: Add SIM Lock Service {ADDEIR}

Function Selector: ADDEIR

IDL Function: PerformFunction

This function will provision the subscriber with the appropriate SIM Lock/EIR service (depending on the subscriber’s payment method).

Table 649 - Provision: Add SIM Lock Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| IMEI | Mandatory | String | 14 or 16 digit IMEI to link to the subscriber’s SIM |

### Provision: Remove SIM Lock Service {DELEIR}

Function Selector: DELEIR

IDL Function: PerformFunction

This function will remove the appropriate SIM Lock/EIR service (depending on the subscriber’s payment method) from the subscriber.

Table 650 - Provision: Remove SIM Lock Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: Add Roaming Bundle {ADDRBN}

Function Selector: ADDRBN

IDL Function: PerformFunction

Country: Tanzania

External system (Tanzania USSD) will call the ADDRBN function. The function will query the payment type and map the short code to a RBN roaming bundle. The function will log a PURREQ request with the SO\_ID. Database sends ADDBUN command to PWE, if successful a MNGOFF/MNGPOF request, which will add the remaining packages to unified OCS and a service to VxView (postpaid) as per the version feature specification TZFS-0202 Roaming Bundle. The service offering on the RBN service type is as per the offer specifications (TZFS-002, TZFS-003). The unified packages are as per TZFS-0202.

If the PURREQ fails an sms will be sent to the subscriber to check their balance.

Table 651 – Provision: Add Roaming Bundle – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SHORT CODE | Mandatory | String(50) | \*149\*01# |
|  |  |  |  |

### Provision: SMS Keyword Function Prepaid Roaming Activation {SKFPRA}

Function Selector: SKFPRA

IDL Function: PerformFunction

Country: DRC

The SMS Processor manages SMS Keywords (DRFS-135) to provide iCAP functions.

Some of these functions are required on highspeed as well (SKF\* functions).

SKFPRA enables the prepaid subscriber to activate/deactivate roaming (Ref DRFS-0227) by executing a change class request (CLSCHG) to set ROM or INT class.

Table 652 – Provision: SKF Prepaid Roaming Activation - In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| ACTION | Mandatory | String(50) | ACTIVATE  DEACTIVATE |

### Provision: SMS Keyword Function Query Monthly Usage {SKFQMU}

Function Selector: SKFQMU

IDL Function: PerformFunction

Country: DRC

The SMS Processor manages SMS Keywords (DRFS-135) to provide iCAP functions.

Some of these functions are required on highspeed as well (SKF\* functions).

SKFQMU enables the prepaid subscriber to query monthly usage (Ref DRFS-0227) by executing a monthly usage request (MUSAGE).

Table 653 – Provision: SKF Query Monthly Usage - In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |

### Provision: SMS Keyword Function Please Call Me {SKFPCM}

Function Selector: SKFPCM

IDL Function: PerformFunction

Country: DRC

The SMS Processor manages SMS Keywords (DRFS-135) to provide iCAP functions.

Some of these functions are required on highspeed as well (SKF\* functions).

SKFPCM enables the subscriber to send an SMS to a recipient number to request them to call the subscriber number (Ref DRFS-0227) by executing a send message request (SNDMSG).

Table 654 – Provision: SKF Please Call Me - In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| RECIPIENT | Mandatory | String | Recipient’s MSISDN e.g. 0829805010 (10 digit MSISDN) |

### Provision: Add Blacklisting {ADDBLK}

Function Selector: ADDBLK

Country: DRC

IDL Function: PerformFunction

This Blacklist the device of the IMEI supplied on the EIR (SDM HLR).

Will log a GRYADD request in iCAP.

Table 655 - Provision: Add Blacklisting – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | IMEI – max 15 characters |
| SUB ID TYPE | Mandatory | String | ‘IMEI’ |
| REASON CODE | Mandatory | String | 0000 – None (Default if not supplied)  0010 – Faulty or Broken  0011 - Stolen |
| COLOUR | Mandatory | String | ‘BLACK’ or ‘GREY’ |

### Provision: Remove Blacklisting {DELBLK}

Function Selector: DELBLK

Country: DRC

IDL Function: PerformFunction

This function will remove the Blacklisting on the EIR (SDM HLR) for the device with IMEI supplied.

Will log a GRYREM request on iCAP.

Table 656 - Provision: Remove Blacklisting – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | IMEI – max 15 characters |
| SUB ID TYPE | Mandatory | String | ‘IMEI’ |
| REASON CODE | Mandatory | String | 0000 – None (Default if not supplied)  0014 – Found  0015 – Removed from list  0018 - Repaired |
| COLOUR | Mandatory | String | ‘BLACK’ or ‘GREY’ |

### Provision: Cancel Pending SIM Swap {SIMCC2}

Function Selector: SIMCC2

Country: TZN and DRC

IDL Function: PerformFunction

This function will cancel a pending SIM Swap request by logging a CANPRQ request for the subscriber.

Table 657 - Provision: Cancel Pending SIM Swap – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | MSISDN – 0756963325 |
| SUB ID TYPE | Mandatory | String | ‘M’ |
| REASON CODE | Optional | String | Configured in SA\_REQUEST\_REASONS |
| ACTION TYPE | Mandatory for DRC Only | String | Values = CANCEL / RELEASE |

Note ACTION TYPE is a new parameter only for DRC, it allows the request to either CANCEL or force the pending request to be executed.

If ACTION TYPE = CANCEL log a CANPRQ request with the request seq of the pending SIM Swap.

If ACTION TYPE = RELEASE log a RELPRQ request with the request seq of the pending SIM Swap.

If no pending request exists for the subscriber return a suitable error message with unique error code.

### Provision: Port In Request {PTINRQ}

Function Selector: PTINRQ

Country: TZN

IDL Function: PerformFunction

This function will submit a port in request using SRP procedure P\_LOG\_BULK\_REQUEST(PTINRQ). Note that it is not a subscriber request (the porting in MSISDN has not yet activated on iCAP). The MSISDN is submitted to the database in the bulk ID\_List.

Table 658 - Provision: Port In Request – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| MSISDN | Mandatory | String | This is the porting in MSISDN  e.g. 0721234567 |
| ICC ID | Mandatory | String | This is the starterpack ICC ID supplied for the port in  e.g. 89410000000001255525 |
| VALIDATION MSISDN | Conditional | String | NPCDB validationMSISDN (SMS destination that confirms port)  This parameter is not needed in the case of emergency restore.  This is typically the same as the porting in MSISDN.  e.g. 0721234567 |
| EMERGENCY RESTORE | Conditional | String | This parameter is only supplied in case of emergency restore (The Port In Request is an emergency Port Out Reversal)  0 = Not an emergency restore (default)  1 = Emergency Restore |
| HANDLE MANUALLY | Optional | String | NPCDB handleManually  flag to override automatic handling (in a second attempt after a failure)  0 = No specific handling  1 = Handle manually |
| DATE OF BIRTH | Conditional | String | NPCDB dateOfBirth YYYY-MM-DD e.g. 1985-10-03  This parameter is not supplied in case of emergency restore |
| CUSTOMER NAME | Mandatory | String | NPCDB customerName |
| CUSTOMER ID TYPE | Mandatory | String | NPCDB customerIDType  1 = Passport  2 = Civil ID |
| CUSTOMER ID | Mandatory | String | NPCDB customerID  Number e.g. 12345 |
| CUSTOMER TYPE | Mandatory | String | NPCDB customerType (consumer or business)  Current implementation caters for ‘consumer’ only |
| SERVICE TYPE | Mandatory | String | NPCDB serviceType (mobile or fixed)  Current implementation caters for ‘mobile’ only |
| SUBSCRIPTION TYPE | Conditional | String | NPCDB subscriptionType (prepaid or postpaid)  This parameter is supplied for mobile (but not for fixed) serviceType  Current implementation caters for ‘prepaid’ only |
| PORTING TIME | Optional | String | YYYYMMDDHHMMSS (24 hour format)  e.g. 20151020163000  NPCDB portingTime (Date Time format)  This parameter is supplied if the port is not immediate (i.e. it is scheduled to port at a future date time) |

### Provision: Port In Cancellation Request {PTINCN}

Function Selector: PTINCN

Country: TZN

IDL Function: PerformFunction

This function will submit a port in cancellation request using SRP procedure P\_LOG\_BULK\_REQUEST(PTINCN). Note that it is not a subscriber request (the porting in MSISDN has not yet activated on iCAP).

Table 659 - Provision: Port In Cancellation Request – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| MSISDN | Mandatory | String | This is the porting in MSISDN  e.g. 0721234567 |
| CANCEL REASON | Mandatory | String | NPCDB cancelReason. Value:  1 |
| CANCEL MESSAGE | Optional | String | NPCDB cancelMessage. Value:  The subscriber has requested to cancel the porting |

### Provision: Emergency Restore {PTOTRR}

Function Selector: PTOTRR

Country: TZN

IDL Function: PerformFunction

This function will submit a port out reversal authorisation request (emergency restore request) using SRP request PTOTRR.

Note that it is not a subscriber request (the ported out MSISDN has not yet ported back into iCAP).

This is a request to the NPCDB to ask authorisation to port back in (port out reversal / emergency restore).

Table 660 - Provision: Port Out Reversal Request (Emergency Restore) – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| MSISDN | Mandatory | String | MSISDN for the port out reversal / emergency restore  e.g. 0721234567 |

### Provision: Migrate between Prepaid Offers OCS {MIGPD1}

Function Selector: MIGPD1

IDL Function: PerformFunction

This function will migrate the PP offer of a subscriber to a new PP offer on iCAP, PPFE and USSD.

The function seq = 2535 and it will log a new request type MIGPPO.

Table 661 – Provision: Migrate PP Product – In AttributeList

| **Attribute Name** | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| NEW PROVIDER ID | Mandatory | String(6) | The new provider ID of the OCS offer, e.g. 500035.  Highspeed to lookup mapped value:  select attribute\_value  from sa\_ne\_products\_packages  where id='500035'  and product\_id='PrimaryOfferId'  and attribute\_name='ICAP\_KEY'  Then with the PROVIDER ID, ICAP shall retrieve the prepaid OFFER\_ID mapped to the PROVIDER ID above.  select ID from sa\_offers where  provider\_id='YTH\_PRD\_MAIN\_YOUTH'  and starter\_pack\_yn='N'  The main prepaid offer id is required and NOT the pseudo nor the pseudo convert offer id. |
|  |  |  |  |

#### DRC Validation Rules for MIGPD1

SUB ID shall be the MSISDN of an active subscriber in ICAP. IF MSISDN is not an active subscriber in ICAP, ICAP shall throw an exception as per current business rule:

<icap-response><header><status>FAILURE</status><error-code>20509</error-code><error-group>DATABASE\_ERROR</error-group><error-message>[highspeed1@VODA07]:Subscriber with ID 243997000023150 not found.</error-message></header><body><attributes/></body></icap-response>

NEW PROVIDER ID – there must be an existing mapping between PrimaryOfferId and PROVIDER\_ID in ICAP.

If the mapping between PrimaryOfferId and PROVIDER\_ID does not exist in ICAP, ICAP shall throw an exception as follows [as per current business rule]:

<icap-response><header><status>FAILURE</status><error-code>20000</error-code><error-group>DATABASE\_ERROR</error-group><error-message>[highspeed1@VODA07]:ORA-20000:  Service type seq not found for M

ORA-06512: at "SA\_PROD\_03.SA\_REQ", line 54642

ORA-06512: at line 1

ORA-06512: at "SA\_PROD\_03.SA\_REQ", line 86563

ORA-06512: at "SA\_PROD\_03.SA\_REQ", line 43505

ORA-06512: at "SA\_PROD\_03.SA\_REQ", line 94844

ORA-06512: at line 1

</error-message></header><body><attributes/></body></icap-response>

If the mapping between PROVIDER\_ID and **prepaid** OFFER\_ID does not exist in ICAP, ICAP shall throw an exception as follows:

*‘Mapping between PROVIDER\_ID and prepaid OFFER\_ID does not exist.*’

If the subscriber is already on requested new offer id in ICAP, ICAP shall throw an exception as follows, as per current business rule:

<icap-response><header><status>FAILURE</status><error-code>20000</error-code><error-group>DATABASE\_ERROR</error-group><error-message>[highspeed1@VODA07]:ORA-20000: Requested Offer is the active subscription for subscriber 507922

ORA-06512: at "SA\_PROD\_03.SA\_REQ", line 54569

ORA-06512: at line 1

ORA-06512: at "SA\_PROD\_03.SA\_REQ", line 86563

ORA-06512: at "SA\_PROD\_03.SA\_REQ", line 43505

ORA-06512: at "SA\_PROD\_03.SA\_REQ", line 94844

ORA-06512: at line 1

</error-message></header><body><attributes/></body></icap-response>

When above validations are successful, then Highspeed will log a MIGPPO request type on the subscriber. This request type will have only the 2 commands below and will migrate the subscriber offer on iCAP:

|  |  |  |
| --- | --- | --- |
| **Command Type ID** | **Command Type DESCRIPTION** | **Output Stream ID** |
| PPFUPD | Update Subscriber on PPFE | PPAS |
| USDSPP | Synchronize Price Plan | USSD |

NB: the existing function **MIGPRD** should not be impacted by this new function

### Provision: Month to Month Migrate To Offer {M2MTOM}

Function Selector: M2MTOM (to month to month)

IDL Function: PerformFunction

Country: TZN

This function will be called from VxView to migrate the subscriber postpaid/hybrid offer to the specific Month to Month hybrid offer.

The function seq = 2547 and it will log a request type MIGOFF or PP2CON.

MIGOFF is for postpaid/hybrid to hybrid Month to Month.

PP2CON is for prepaid to hybrid Month to Month.

Table 662 – Provision: Migrate PP Product – In AttributeList

| **Attribute Name** | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| AGENT MSISDN | Mandatory | String | See Table 2 |
| TO OFFER | Mandatory | String | iCAP Offer ID e.g. MM1 |
| DATA\_YN | Mandatory | String(1) | Flag Y / N indicates whether to add data bundle  (optional service offering on the month to month offer definition) |
| VOICE\_YN | Mandatory | String(1) | Flag Y / N indicates whether to add voice bundle  (optional service offering on the month to month offer definition) |
| SMS\_YN | Mandatory | String(1) | Flag Y / N indicates whether to add sms bundle  (optional service offering on the month to month offer definition) |
| ACCOUNT NUMBER | Conditional | String | e.g. V0001234  For prepaid migrations to month to month an Account Number will be supplied. If it does not exist it will be created on iCAP. |
| Update as per TZ010990:  When migrating from Prepaid to the month to month offer, the postpaid billing system Vx-View requires the subscriber’s title and address as well as the registration details (msisdn, first name, surname, id type, id number and date of birth). The prepaid subscriber on iCAP already has the registration details, and sometimes has the Title and Address. For the cases where Title and Address are not on iCAP it is necessary to supply them for the sake of Vx-View provisioning.  Therefore we have added the Title and Address details below as conditional parameters. They can always be supplied for prepaids, or they can be supplied in the case where the M2MTOM request fails when they are not supplied. | | | |
| TITLE | Conditional | String | The options are: Mr / Mrs / Miss / Ms /  Adv / Dr / Father / Hon / Judge / Justice / Lady / Lord / Minister /  Prince / Princess / Prof / Rev / Sir |
| ADDR1 | Conditional | String | Address line 1 e.g. 45 Pear Lane |
| ADDR2 | Conditional | String | Optional extra information e.g. Flat 2 |
| ADDR3 | Conditional | String | Optional extra information e.g. Room 1 |
| SUBURB | Conditional | String | Suburb e.g. Constantia |
| CITY | Conditional | String | City e.g. Dar es Salaam |
| COUNTRY | Conditional | String | Country code e.g. TZ / KE / UG / ZA |
| POSTCODE | Conditional | String | Postcode e.g. 2006 |

### Provision: Month to Month Migrate Offer {M2MFRM}

Function Selector: M2MFRM (from month to month)

IDL Function: PerformFunction

Country: TZN

This function will be called from VxView to migrate the subscriber from the month to month hybrid offer to the new hybrid offer (e.g. VFIXS, the Vodajaza Zero offer).

The function seq = 2548 and it will log a request type MIGOFF.

Table 663 – Provision: Migrate PP Product – In AttributeList

| **Attribute Name** | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| AGENT MSISDN | Optional | String | See Table 2 |
| TO OFFER | Mandatory | String | e.g. VFIXS |

### Provision: Month to Month Lock {M2MLCK}

Function Selector: M2MLCK

IDL Function: PerformFunction

Country: TZN

This function will be called from VxView to lock the subscriber (e.g. non-payment).

The function seq = 2549 and it will log a request type LCKADM.

Table 664 – Provision: Migrate PP Product – In AttributeList

| **Attribute Name** | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| AGENT MSISDN | Optional | String | See Table 2 |
| REASON | Optional | String | DLP – Default on Loan Payment |

### Provision: Month to Month Unlock {M2MUNL}

Function Selector: M2MUNL

IDL Function: PerformFunction

Country: TZN

This function will be called from VxView to unlock the subscriber (e.g. after payment received).

The function seq = 2550 and it will log a request type UNLADM.

Table 665 – Provision: Migrate PP Product – In AttributeList

| **Attribute Name** | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| AGENT MSISDN | Optional | String | See Table 2 |
| REASON | Optional | String | LPR – Loan Payment Resumed |

### Provision: Lift Legal Registration Lock {UNLLGL}

Function Selector: UNLLGL

IDL Function: PerformFunction

Country: DRC

This function will be called to unbar subscribers on the HLR that have been Legally Registered.

It will log a UNLLGL request type.

Table 666 – Provision: Lift Legal Registration Lock– In AttributeList

| **Attribute Name** | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| AGENT MSISDN | Optional | String | MSISDN – will be validated if provided |

### Provision: Add CLIR {ADDCLR}

Function Selector: ADDCLR

IDL Function: PerformFunction

Country: DRC

This function will be called via USSD by subscribers who wish to active or deactivate CLIR on the HLR. Access to this function shall be controlled as per ICAP standard security

It will log a MNGOFF / MNGPOF request type.

Function Sequence = 2616, see [[21]](#DecRef21) VCID-029 Function Selectors.

Table 667 – Provision: Add CLIR– In AttributeList

| **Attribute Name** | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| ACTION | Mandatory | String | ACTIVATE -> to activate CLIR  DEACTIVATE -> to deactivate CLIR |

This function shall:

* Verify whether the subscriber is active. If NOT, then ICAP to throw an exception and return error message as part of the HSI response as per current process.
* Else, ICAP to log existing MNGOFF/MNGPOF request on subscriber profile for command provisioning to HLR.

**CASE ACTION = ACTIVATE**

* The request willissue the existing command type CSSS12 (Add CLIR service) to HLR.
* CLIR service (S12) will be added on iCAP profile

**Sample mapped command:**

<?xml version="1.0" encoding="UTF-8"?><MappedCommand version="1"><Function Name="CSSS12"/><Attributes><Attr Name="DN" Value="generalCallServiceProfileId=1,supplementaryServiceProfileId=1,gsmServiceProfileId=1,suMSubscriptionProfileId=1,suMSubscriberProfileId=0080278440,subscriptionFunctionId=1,managedElementId=HSS1"/><Attr Name="clirProvisionedFlag" Value="1"/><Attr Name="presentationMode" Value="PMP"/></Attributes></MappedCommand>

**CASE ACTION = DEACTIVATE**

The request shall issue the existing CANCLR command type (Remove CLIR service) to HLR.

* CLIR service (S12) will be deleted on iCAP profile

Table 668 : ADDCLR SMS Message Text

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **ENGLISH** | **FRENCH** | **LINGALA** | **KIKONGO** | **SWAHILI** | **TSHILUBA** |
| ***CLIR*** | ***ACTIVATE*** | Dear customer, the mobile number (08\*\*\*) has been masked successfully. Please, dial \*1111# Ok to unmask it | Cher Client, le numéro (08\*\*\*) vient d'être masqué avec succès. Veuillez composer à nouveau \*1111# Ok pour le démasquer. | Ndeko Client, numéro (08\*\*\*) bawuti nako masqué yango malamu. Beta lisusu \*1111# Ok pona ko démasquer yango. | Mpangi Client, numéro (08\*\*\*) bame katuka naku masqué yawu na mboté nioso. Bula diaka \*1111# Ok samu naku démasquer yawu. | Ndugu Mteja,namba (08\*\*\*) imekuwa masqué kwa mafanikio.Tafadhali upige tena \*1111# Ok kwa ku kuondoa. | Munangibue,  numero ya (081\*\*\*) ya kufuma ku sokokibua bilenga. Sanka wenzele kabidi \*1111# ok bua imueneshibue. |
| ***DEACTIVATE*** | Dear customer, your mobile number (08\*\*\*) has been unmasked successfully. | Cher Client, Votre numéro (08\*\*\*) vient d'être démasqué avec succès. | Ndeko Client, numero nayo (08\*\*\*)  bawuti nako demasqué. | Mpangi Client, numero (08\*\*\*)  na nge bame katuka naku démasqué yawu na mboté nioso. | Ndugu Mteja,namba (08\*\*\*)  imeondoka  kuwa masque kwa mafanikio. | Munangibue, numero yebe (08\*\*\*)  ya kufuma kumueneshibua bilenga. |

For ADDCLR request (action = Activate) update the specified ENGLISH, FRENCH, LINGALA, KIKONGO, SWAHILI and TSHILUBA SMS messages in sa\_request\_messages.

For ADDCLR request (action = Deactivate) add the specified ENGLISH, FRENCH, LINGALA, KIKONGO, SWAHILI and TSHILUBA SMS messages in sa\_request\_messages.

On successful ADDCLR Activation requests (sent via any channel – Highspeed/FE/Bulk), send the specified SMS message in the correct language as per as per the subscribers Language attribute on ICAP. Default to French if the subscriber has no language attribute.

On successful ADDCLR Deactivation requests (sent via any channel – Highspeed/FE/Bulk), send the specified SMS message in the correct language as per the subscribers Language attribute on ICAP. Default to French if the subscriber has no language attribute.

### SIM Swap with Pin Authentication {SIMCHV}

Function Selector: SIMCHV

IDL Function: PerformFunction

Country: DRC

This function will be called via IVR by subscribers who wish to do a SIM Swap. Access to this function shall be controlled as per iCAP standard security

It will log a SIMCHG request type.

Function Sequence = 2618, see [[21]](#DecRef21) VCID-029 Function Selectors.

Table 669 : Sim Swap with Pin Authentication - Input Parameters

| Attribute Name | Request Parameter | Mandatory/ Optional | Format | Attribute Value Description |
| --- | --- | --- | --- | --- |
| SUB ID | SECON SUB ID | M | String | See Table 2 |
| SUB ID TYPE | SECON SUB ID TYPE | M | String(6) | MSISDN – An active subscriber on iCAP. |
| NEW ICCID |  | M | String | Replacement unused SIM. |
| REQUESTING SUB ID | SUB ID | M | String | The MSISDN on which the SIMCHG request is to be logged – 15 digits format |
|  | SUB ID TYPE |  |  | Always ‘M’ |
| PIN |  | M | String | Self Help PIN of the requesting subscriber – note this is optional if AGENT MSISDN supplied. |
| AGENT MSISDN |  | O | String | For DRC – MSISDN belonging to an Agent. |
| SIM SWAP PERIOD YN |  | O | String | If supplied and = ‘Y’ check for a SIM Swap in the last SIM\_SWAP\_PERIOD\_LIMIT no of days |
| SIM SWAP G2PINRST YN |  | O | String | If supplied and = ‘Y’ check for a G2 PIN Reset in the last SIM\_SWAP\_G2\_PIN\_RESET no of days |
| SIM SWAP LOOKUPORG YN |  | O | String | If supplied and = ‘Y’ check if Agent belongs to Organisation in the list found in SIM\_SWAP\_LTD\_ORG\_LIST |
| SIM SWAP SLFPINRST YN |  | O | String | If supplied and = ‘Y’ check for a Self Help PIN Reset in the last SIM\_SWAP\_SLFPINRST no of days |
| SIM SWAP ARPUCHK YN |  | O | String | Defaults to ‘N’ if not supplied.  Applicable to both SIM swap requests by Agent and Self. Step to be verified last and limited to controlling whether or not to apply service suspension – see DRFS-0233. |
| ARPU\_THRESHOLD\_CHECK\_YN |  | O | String | If ‘Y’ then if ARPU >= Threshold and fail SIM SWAP. If not provided then this attribute will default to ‘N’. |
| OTP YN |  | O | String | Default to N if not supplied. If Y then an OTP must be sent to the subscriber as per the rules int DRFS-0233 |
| OTP 4G YN |  | O | String | Default to N if not supplied. If Y then an OTP must be sent to the subscriber as per the rules in DRFS-0233. If both OTP\_YN and OTP\_4G\_YN are “Y” then OTP\_YN takes precedence |
| TIME CONTROL YN |  | O | String | Default to N if not supplied. If Y then an Time slot control to be enforced. |
| The following parameters are mandatory for DRC if an Agent MSISDN is supplied: | | | | |
| IN ACCOUNT BALANCE |  | M | Integer | In Cents |
| LAST RECHARGE AMOUNT |  | M | Integer | In Cents |
| SIM SWAP DONE |  | M | String | Y/N |
| CHECK FREQUENTLY DIALLED NOS YN |  | O | String | Y/N defaults to N. |
| MSISDN1 |  | O | String | Mandatory if CHECK FREQUENTLY DIALLED NOS YN = ‘Y’ |
| MSISDN2 |  | O | String | Mandatory if CHECK FREQUENTLY DIALLED NOS YN = ‘Y’ |
| MSISDN3 |  | O | String | Mandatory if CHECK FREQUENTLY DIALLED NOS YN = ‘Y’ |
| MSISDN4 |  | O | String | Mandatory if CHECK FREQUENTLY DIALLED NOS YN = ‘Y’ |
| MSISDN5 |  | O | String | Mandatory if CHECK FREQUENTLY DIALLED NOS YN = ‘Y’ |

### Lock Stolen with Pin Authentication {LCKSTV}

Function Selector: LCKSTV

IDL Function: PerformFunction

Country: DRC

This function will be called via IVR by subscribers who wish to Stolen Lock a SIM. Access to this function shall be controlled as per iCAP standard security

It will log a LCKSTN request type.

Function Sequence = 2619, see [[21]](#DecRef21) VCID-029 Function Selectors.

Table 671 : Lock Stolen Sim with Pin Authentication - Input Parameters

| Attribute Name | Request Parameter | Mandatory/ Optional | Format | Attribute Value Description |
| --- | --- | --- | --- | --- |
| SUB ID | SECON SUB ID | M | String | See Table 2 |
| SUB ID TYPE | SECON SUB ID TYPE | M | String(6) | MSISDN – An active subscriber on iCAP. |
| REQUESTING SUB ID | SUB ID | M | String | The MSISDN on which the SIMCHG request is to be logged – 15 digits format |
|  | SUB ID TYPE |  |  | Always ‘M’ |
| PIN |  | M | String | Self Help PIN of the requesting subscriber. |

**Business Rules**

* SUB ID and REQUESTING SUB ID can be the same
* This function shall log LCKSTN request on REQUESTING SUB ID if the following conditions are met:
  + SUB ID is an active subscriber. If not, iCAP to throw an exception and return error message as part of the Highspeed response message in the language on SUB ID’s ICAP profile, French by default. Text to be provided by VDRC.
  + REQUESTING SUB ID is an active subscriber. If not, iCAP to throw an exception and return error message as part of the Highspeed response message in the language on REQUESTING SUB ID’s iCAP profile, French by default. Text to be provided by VDRC.
  + PIN authentication must be successful. If not, iCAP to throw an exception and return error message as part of the Highspeed response message in the language on REQUESTING SUB ID’s iCAP profile, French by default. Text to be provided by VDRC.
  + Current rules relative to self-help PIN authentication shall apply
* When all validations above are successful, then iCAP shall log the LCKSTN request on REQUESTING SUB ID and send a notification via SMS to both SUB ID and REQUESTING SUB ID, respectively, in the language on their ICAP profile, French by default. Text to be provided by VDRC.

Table 672 : LCKSTV - SMS Messages

|  |  |  |
| --- | --- | --- |
| **Language** | **Activation Failed** | **Activation Successful** |
| FRENCH | Cher Client, le 081xxxxxxx n’a pas pu être bouché selon votre demande. Prière de revoir les informations fournies. | Cher Client, le 081xxxxxxx a été débouché selon votre demande. Composez  \*1111# pour activer nos services. Merci |
| ENGLISH | Dear Customer, 08\*\*\*\*\*\*\*\* failed to be locked as requested. Please Check the data input. Thank you. | Dear Customer, **08**\*\*\*\*\*\*\*\* is successfully locked. Please dial \*1111# for Service activation. Thank you.. |
| LINGALA | Ndeko Client, 081xxxxxxx elongi te kokangama kolandisama bosenga na yo. Tala malamu ba informations oyo opesi. | Ndeko Client, 081xxxxxxx esili kokangama kolandisama bosenga nayo. Beta  \*1111# pona ko activer ba services na biso. Matondi. |
| KIKONGO | Pangi Client, 081xxxxxxx yawu me zibuka ve na kulomba na nge. Zaba naku tala mboté ba informations yina nge piya. | Pangi Client, 081xxxxxxx ba me kanga yawu kulandisama na yina nge lombaka. Bula  \*1111# samu naku zibula bisalu na beto. Matondo. |
| SWAHILI | Ndugu mteja,081xxxxxaikuwezi kufungwa kufatana na ombi lako.Tafadhali uangaliye maelekezo ulitupatiya | Ndugu mteja,081xxxx imefungwa kufatana na ombi lako.Piga \*1111# kwa ku active ma kazi yetu.Aksante |
| TSHILUBA | Muswibwe musumbi, 08xxxx kena mwikala boucher kulondeshela dji lomba djeba to. manya kubangishilula ku tangila ma information a wudi mufila | Muswibwe musumbi, 08xxxx ukadi boucher kulondeshela dji lomba djeba . manya kwenza \*1111# bwa ku activer ma service etu. |

### Unlock Stolen with Pin Authentication {UNLSTV}

Function Selector: UNLSTV

IDL Function: PerformFunction

Country: DRC

This function will be called via IVR by subscribers who wish to Stolen Lock a SIM. Access to this function shall be controlled as per iCAP standard security

It will log a UNLSTN request type.

Function Sequence = 2620, see [[21]](#DecRef21) VCID-029 Function Selectors.

Table 673 : Unlock Stolen SIM with Pin Authentication - Input Parameters

| Attribute Name | Request Parameter | Mandatory/ Optional | Format | Attribute Value Description |
| --- | --- | --- | --- | --- |
| SUB ID | SECON SUB ID | M | String | See Table 2 |
| SUB ID TYPE | SECON SUB ID TYPE | M | String(6) | MSISDN – An active subscriber on iCAP. |
| REQUESTING SUB ID | SUB ID | M | String | The MSISDN on which the SIMCHG request is to be logged – 15 digits format |
|  | SUB ID TYPE |  |  | Always ‘M’ |
| PIN |  | M | String | Self Help PIN of the requesting subscriber. |

**Business Rules**

* SUB ID and REQUESTING SUB ID can be the same
* This function shall log UNLSTN request on REQUESTING SUB ID if the following conditions are met:
  + SUB ID is an active subscriber. If not, iCAP to throw an exception and return error message as part of the Highspeed response message in the language on SUB ID’s ICAP profile, French by default. Text to be provided by VDRC.
  + REQUESTING SUB ID is an active subscriber. If not, iCAP to throw an exception and return error message as part of the Highspeed response message in the language on REQUESTING SUB ID’s iCAP profile, French by default. Text to be provided by VDRC.
  + PIN authentication must be successful. If not, ICAP to throw an exception and return error message as part of the Highspeed response message in the language on REQUESTING SUB ID’s iCAP profile, French by default. Text to be provided by VDRC. Current rules relative to self-help PIN authentication shall apply
* When all validations above are successful, then iCAP shall log the UNLSTN request on REQUESTING SUB ID and then send a notification via SMS to both SUB ID and REQUESTING SUB ID, respectively, in the language on their ICAP profile, French by default. Text to be provided by VDRC.

Table 674 : UNLSTV - SMS Messages

|  |  |  |
| --- | --- | --- |
| **Language** | **Activation Failed** | **Activation Successful** |
| FRENCH | Cher Client, le 081xxxxxxx n’a pas pu être débouché selon votre demande. Prière de revoir les informations fournies. | Cher Client, le 081xxxxxxx a été débouché selon votre demande. Composez  \*1111# pour activer nos services. Merci |
| ENGLISH | Dear Customer, 08\*\*\*\*\*\*\*\* failed to be unlocked as requested. Please Check the data input. Thank you. | Dear Customer, **08**\*\*\*\*\*\*\*\* is successfully unlocked. Please dial \*1111# for Service activation. Thank you.. |
| LINGALA | Ndeko Client, 081xxxxxxx yango efonguami té kolandisama bosenga nayo. Tala malamu ba informations oyo opesi. | Ndeko Client, 081xxxxxxx ewuti ko fonguama kolandisama bosenga na yo. Beta  \*1111# pona ko activer ba services na biso. Matondi |
| KIKONGO | Pangi Client, 081xxxxxxx yawu me zibuka ve kulandisama na yina nge lombaka. Zaba naku tala mboté ba informations yin ange pesaka | Pangi Client, 081xxxxxxx nge me katuka naku zibula kulandisama nayina nge lombaka. Buta  \*1111# samu naku sadila bisalu na beto. Matondo |
| SWAHILI | Ndungu Mteja,081xxxx aikuweza kufungwa kufatana na ombi lako.Tafadhali uangaliye amelekezo uilitupatiya. | Ndugu mteja,081xxxx imefungwa kufatana na ombi lako.Piga \*1111# kwa ku active ma kazi yetu.Aksante |
| TSHILUBA | Muswibwe musumbi, 081xxxxxxx kena mwikala deboucher to kulodeshela djilomba djeba. Manya ma information awudji mufila. | Muswibwe musumbi, 081xxxxxxx ukadji deboucher kulodeshela djilomba djeba Manya ma information awudji mufila. |

### Sim Swap Immediate for LTE 4G {SIMCHI}

Function Selector: SIMCHI

IDL Function: PerformFunction

Country: TZN

This function will be called via 4C to do SIM Swaps for subscribers with LTE 4G.

Access to this function shall be controlled as per iCAP standard security.

It will log a SMCHGI request type. The exiting 48 hour barring of USSD will remain as per the SIMCHP request type logged by SIMCH2 function.

Table 675 : SIMCHI - Input parameters

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| ORIGIN ID | Mandatory | String | 2 character origin id e.g.  4C |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| AGENT MSISDN | Mandatory | String(10) | Agent MSISDN setup on iCAP as registered agent user |
| NEW ICCID | Mandatory | String(20) | New SIM Serial (ICCID) |
| SEND SMS | Optional | String(1) | ‘Y’ (send SMS to subscriber) |
| LANGUAGE | Optional | String(3) | Language for SMS (not applicable) |
| BIOMETRIC SIM SWAP YN | Optional | String(1) | If not supplied will default to ‘N’. |

### Provision: Legal Registration Lock {LCKLGL}

Function Selector: LCKLGL

IDL Function: PerformFunction

Country: DRC

This function will be called to Legal lock subscribers on iCAP and the HLR that have not been Legally Registered.

It will log a LCKLGL request type.

Table 676 – Provision: Legal Registration Lock– In AttributeList

| **Attribute Name** | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
|  |  |  |  |

### Provision: Add Auto Allocate Data Bundles {ADDADB}

Function Selector: ADDADB

IDL Function: ExecFunction

This function shall add the Add Auto Allocate Data Bundles to a subscriber’s profile. The Auto Allocate Data Bundle shall allow prepaid and hybrid customers to never go out of bundle. The opt-in service automatically allocates a data bundle on a customer’s behalf when they deplete their data bundles. The MNGPOF/MNGOFF request type shall be used to add the service and allow for opt-in.

Table 677 - Provisioning: Add Auto Allocate Data Bundles– In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
| SO ID | Optional | String | E.g .AADB1 |

### Provision: Remove Auto Allocate Data Bundles

Function Selector: REMADB

IDL Function: ExecFunction

This function shall Remove Auto Allocate Data Bundles from a subscriber’s profile. Therefore once the subscriber has opted- out they will no longer receive an auto allocation of data bundles and the subscriber will be moved to their current default data rates. The MNGPOF/MNGOFF request type shall be used to remove the service and allow for opt- out.

Table 678 – Remove Auto Allocate Data Bundle – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
| SO ID | Optional | String | E.g. AADB |

### Provision: Create Mobile Money Customer { CREMMS}

Function Selector: CREMMS

IDL Function: PerformFunction

Table 679 – Create Mobile Money Customer – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
| REQUEST TYPE | Mandatory | String | CREMMS |
| USER SEQ | Mandatory | String | Value returned by PerformLogin |
| ORIGIN ID | Mandatory | String | PS - Papersoft |
| LAST NAME | Mandatory | String | INITIALS |
| MIDDLE NAME | Mandatory | String | SURNAME |
| FIRST NAME | Mandatory | String | FIRST NAME |
| DOB | Mandatory | Date | Date of Birth |
| ID TYPE | Optional | String | |  |  | | --- | --- | | **TYPE** | **DESCRIPTION** | | UI3 | Attestation de perte des pieces | | UI6 | Attestation de résidence | | CE | Carte d'electeur | | UI4 | Carte d'etudiant | | P | Passport | | UI2 | Permis de conduire | | UI7 | Permis de travail | |
| ID NO | Optional | String | Max 40 characters |
| AGENT MSISDN | Optional | String | MSISDN |
| CONTROL\_YN | Mandatory | String | Allowed values = ‘Y’ or ‘N’. |

### Provision: Upgrade MPESA Account to Premium {UPGMMT}

Function Selector: UPGMMT

IDL Function: PerformFunction

Table 680 – Upgrade MPESA Account to Premium – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
| REQUEST TYPE | Mandatory | String | UPGMMT |
| USER SEQ | Mandatory | String | Value returned by PerformLogon |
| ORIGIN ID | Mandatory | String | Origin of request |
| AGENT MSISDN | Optional | String | MSISDN – will be validated if provided |

### Provision: Created Dealer {CREDLR}

Function Selector: CREDLR

IDL Function: PerformFunction

Table 681 – Create Dealer – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| COMMISSION POINT | Mandatory | String | Commission Point ID - ‘C9100’  AG\_ID – ‘P9100’ is derived |
| DESCRIPTION | Mandatory | String | Name of Commission Point |
| SP SEQ | Mandatory | String | e.g. Vodacom Dar = 1 |
| ACCOUNT NO | Mandatory | String | e.g. ‘PP: Account A’ |
| REQUEST TYPE | Mandatory | String | CREDLR |
| USER SEQ | Mandatory | String | Value returned by PerformLogon |
| ORIGIN ID | Mandatory | String | Origin of request |

### Provision: Allocate Starter Packs {ALOCSP}

Function Selector: ALOCSP

IDL Function: PerformFunction

Table 682 – Allocate Starter Packs – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| DEALER CODE | Mandatory | String | Dealer Code e.g. – ‘P9100’ |
| START ICCID | Mandatory | String | Start ICCID of range to be allocated. (must be 18 digits long with no check digit) |
| END ICCID | Mandatory | String | End ICCID of range to be allocated (must be18 digits long with no check digit) |
| REQUEST TYPE | Mandatory | String | ALOCSP |
| USER SEQ | Mandatory | String | Value returned by PerformLogon |
| ORIGIN ID | Mandatory | String | Origin of request |

### Provision: Layby Subscription Cancellation {LMSACN}

Function Selector: LMSACN

IDL Function: PerformFunction

Table 683 – Allocate Starter Packs – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | iCAP ID or MSISDN |
| SUB ID TYPE | Mandatory | String | ‘Q’ or ‘M’ |
| SERVICE SEQ | Mandatory | String | PRODUCT CODE |
| REQUEST TYPE | Mandatory | String | LMSACN |
| USER SEQ | Mandatory | String | Value returned by PerformLogon |
| ORIGIN ID | Mandatory | String | Origin of request (LM) |

If the service seq does not return a valid Lay By service the call will fail with:

Error Code = 131

Error Description = ‘No Lay By Service found for this Subscriber and Product Code’.

**public** **static** **final** String *NO\_LAYBY\_SERVICE\_FOUND* = "131"; // No Lay By Service found.

**throw** **new** ApplicationException(ExceptionType.*LOCAL\_APPLICATION\_ERROR*, ErrorCodes.Application.*NO\_LAYBY\_SERVICE\_FOUND*, "No Lay By Service found for this Subscriber and Product Code.");

If the Lay By service exists a MNGOFF/MNGPOF request type will be logged to remove the service on iCAP, with action ‘LB DEL; and Reason ‘AUTO CANCELLATION’.

New origin ID for LMS = ‘LM’

### Provision: Manage Subscriber WASP Services {MNGWSV}

Function Selector: MNGWSV

IDL Function: ProcessServiceRequest

This function allows the user to manage the WASP Services that a subscriber has opted in to. The user may remove one or all of the subscriber’s WASP services.

Table 684 – Provision: Manage Subscriber WASP Services – InParameterList

| Parameter Name | Mandatory/Optional | Format | Parameter & Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | Values: ‘MSISDN’, ‘ICCID’,’SMARTCARD’,’ICAP\_ID’ |
| ACTION | Mandatory | String | The action may be to delete a single Content service (DEL), or to delete all Content Services (DELALL). Actions are  DEL : Delete single DELALL : Delete All services |
| WASP ID | Conditional | String | The ID of the service the subscriber has opted in to Only required if the ACTION = DEL |
| SERVICE ID | Conditional | String | The Service ID of the service the subscriber has opted in to Required if the ACTION = DEL |

### Manage 4G Service to Subscriber { MNG4GS }

Function Selector: MNG4GS

IDL Function: PerformFunction

This highspeed function will be used by Vodacom DRC to Add or Remove the 4G LTE service.

Table 685 - Provision: Add 3G Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| ACTION | Mandatory | String | ADD / REMOVE |

For action ADD – Business Rules:

* Subscriber must be active. If false HSI will throw error ‘Subscriber is not active’.
* Subscriber must not have already activated 4G service. If true DB / HSI to throw error ‘Subscriber has already activated 4G service’.
* Subscriber must have a SIM on SO\_ID USIM. If not DB / HSI to throw error ‘Subscriber does not have a 4G SIM’.

If all Business rules pass then log MNGOFF (Contract / Hybrid), MNGPOF (Prepaid) with action ADD for LTE service. This will trigger the new ADDLTE request type to recreate the subscriber on the HLR with the correct model.

For action REMOVE:

* Subscriber must be active. If false HSI to throw error as ‘Subscriber is not active’.
* Subscriber must have a LTE SO\_ID active on his master service. If false DB / HSI to throw error ‘Requested service not found on Subscriber’.

If all Business rules pass then log MNGOFF (Contract / Hybrid), MNGPOF (Prepaid) with action DEL for LTE service to be removed. This will trigger the new DELLTE request type to recreate the subscriber on the HLR with the correct model.

### Provision: Send Subscriber Registration Details {SNDSR2}

Function Selector: SNDSR2

IDL Function: PerformFunctionWithAttachment

Country: Tanzania

This function will be called by TZN’s eKYC system (CORBA Interface) to change the subscriber’s legal status. See TZFS-0238 for more information.

SNDSR2 will call the Stored Procedure P\_FREG\_SUB\_IMAGES and ICAP.P\_FREG\_SUB which logs a CRERGL to register the subscriber. If the subscriber is already Registered it will result in UPDRGL request.

For SIM Swap compliance (SIM SWAP COMPLIANCE = Y) the Stored Procedure P\_FREG\_SUB\_IMAGES and ICAP.P\_FREG\_SUB must also be called.

Note the new attributes added for TCRA are all mandatory but the check will be done in Database not in Highspeed.

Table 686 - Provision: Send Subscriber Registration Details – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| FIRST NAME | Mandatory | String | Maximum 20 characters |
| LAST NAME | Mandatory | String | Maximum 64 characters |
| ID TYPE | Mandatory | String | e.g. Voters ID, Student ID, Employer ID as mentioned in TZFS-133 section 4.1.2. |
| ID NUMBER | Mandatory | VARCHAR2(50) | Maximum 50 characters |
| REG\_STATE | Mandatory | String | Allowed values will be:  FREG – fully registered (default) |
| VERIFICATION DATE | Mandatory | String | From NIDA in format: (yyyy-MM-dd HH:mm:ss) |
| AGENT NAME | Mandatory | String | e.g. Sayayi Sengerema |
| AGENT CODE | Mandatory | String | 13243 |
| AGENT TYPE | Mandatory | String | Franchise, Wholesaler, Freelancer, etc |
| AGENT NO | Mandatory  (Check done in DB) | String | Agents MSISDN 12 digit format – 255754795061 will be assigned to AGENT MSISDN before logging DB request. |
| DOB | Mandatory | String | Subscriber’s date of birth  TZN will send in this format: SUBSCRIBER DOB (DD-MM-YYYY) |
| ADDRESS | Mandatory | String | Subscriber’s address |
| POSTAL CODE | Mandatory | String | Postal Code |
| LOCATION | Mandatory | String |  |
| REGION | Mandatory | String |  |
| WARD | Mandatory | String |  |
| DISTRICT | Mandatory | String | District |
| NATIONALITY | Mandatory | String | ~~Allowed values = select ID from sa\_countries (international Country codes)~~ |
| MIDDLE NAME | Mandatory | String |  |
| GENDER | Mandatory | String | Allowed Values = ‘M’ / ‘F’ |
| BIOMETRIC IND | Optional | String | If not supplied must be Null |
| CUSTOMER PICTURE | Mandatory | Byte Array |  |
| ID FRONT | Optional | Byte Array | Only required if BIOMETRIC IND <> ‘Y’ |
| ID BACK | Optional | Byte Array | Only required if BIOMETRIC IND <> ‘Y’ |
| CUSTOMER SIGNATURE | Optional | Byte Array | Only required if BIOMETRIC IND <> ‘Y’ |
| AGENT SIGNATURE | Optional | Byte Array | Only required if BIOMETRIC IND <> ‘Y’ |
| SIM SWAP COMPLIANCE YN | Optional | String | Allowed values ‘Y’ or ‘N’. If not supplied defaults to ‘N’. |
| POLICE REPORT | Optional | Byte Array | ~~Mandatory if SIM SWAP COMPLIANCE YN = Y~~. Always optional |
| EXPIRY DATE | Optional | String | Only required if ID Type and ID No supplied. Must be in the future, format (DD-MM-YYYY). |
| TRANSACTION ID | Mandatory | Numeric | Mandatory for Biometric Registration – checked by DB.  Transaction ID (number) assigned by NIDA system to the biometrict verification event/activity |
| NAME MISMATCH | Optional | String | If not supplied will default to ‘N’. NB: SIM SWAP COMPLIANCE YN and NAME MISMATCH are mutually exclusive – only one can = ‘Y’ or the function will fail. |
| UNBAR AFTER RECHARGE YN | Optional | String | If not supplied will default to ‘N’ |
| REGISTRATION TYPE | Mandatory | String(4) | Please refer to Table 9 in TZFS-0244 |
| PASSPORT | Conditional | Byte Array | Please refer to Table 9 in TZFS-0244 |
| DIPLOMATIC ID | Conditional | Byte Array | Please refer to Table 9 in TZFS-0244 |
| TCRA STATUS | Mandatory | String | PRIMARY / SECONDARY |
| MINOR PICTURE | Conditional | Byte Array | Please refer to Table 9 in TZFS-0244 |
| BIRTH CERTIFICATE | Conditional | Byte Array | Please refer to Table 9 in TZFS-0244 |
| PARENT MSISDN | Conditional | String |  |
| PARENT FIRST NAME | Conditional | String | Maximum 20 characters |
| PARENT LAST NAME | Conditional | String | Maximum 64 characters |
| PARENT ID TYPE | Conditional | String | e.g. Voters ID, Student ID, Employer ID as mentioned in TZFS-133 section 4.1.2. |
| PARENT ID NUMBER | Conditional | VARCHAR2(50) | Maximum 50 characters |
| PARENT DOB | Conditional | String | Subscriber’s date of birth  TZN will send in this format: SUBSCRIBER DOB (DD-MM-YYYY) |
| PARENT ADDRESS | Conditional | String | Subscriber’s address |
| PARENT POSTAL CODE | Conditional | String | Postal Code |
| PARENT LOCATION | Conditional | String |  |
| PARENT REGION | Conditional | String |  |
| PARENT WARD | Conditional | String |  |
| PARENT DISTRICT | Conditional | String |  |
| PARENT NATIONALITY | Conditional | String | ~~Allowed values = select ID from sa\_countries (international Country codes)~~ |
| PARENT MIDDLE NAME | Conditional | String |  |
| PARENT GENDER | Conditional | String | Allowed Values = ‘M’ / ‘F’ |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Note on Update not all the mandatory attributes are required only the attributes that need to be updated and SUB ID and SUB ID TYPE.

The images will be sent through as an array of Isis.Attachment[] objects (see below the draft object definitions).

Each image must have the following ID to be able to identify them ***or*** we can use the name variable:

TaskResult PerformFunctionWithAttachment(

in string<2> originId,                         // Origin ID

in long userId,                              // User Id

in string<255> securityKey,                   // Security Key

in string<32> functionSelector,                // Function Identifier

in Isis::AttachmentList attachmentList,       // List of Attachments

inout Isis::AttributeList attributeList) // Function Attributes/Result Attributes

raises(Isis::InterfaceError);

// Attachment

struct Attachment

{

string id;                 // Attachment Id

string name;               // File Name

string mimeType;           // Mime Type

sequence<octet> content;  // Content

};

where

* **id** identifies the photo – Please refer to Table 8 in TZFS-0244 for full list.
  + 1 = Customer Picture
  + 2 = ID Front
  + 3 = ID Back
  + 4 = Customer Signature
  + 5 = Agent Signature
  + 6 = Police report
* **Name** – can be the attachment file name – ***not required OR use attribute names***
* **mimeType** – identified the file mime type – ***optional (if known)*** – Is this required?
* ***content*** – the image raw data (byte array)

### Provision: Lookup Functions

The lookup queries use a set of attributes for both input and output. These attributes are the following:

* ACTION TYPE = function selector
* ELEMENT2 = null
* ELEMENT3 = null
* ELEMENT5 = null
* ELEMENT6 = null
* ELEMENT7 = null

If the values are for any of the elements are different for specific lookup queries the attribute values will be indicated explicitly for the lookup.

Table 687: Specific Needs Codes and Descriptions

| Needs Code | Needs Description |
| --- | --- |
| NEEDS | Specific Needs |
| SG | Social Grants |
| SANCB | SA National Council for the Blind |
| DEAFSA | Deaf Federation of South Africa |
| NEEDS-A | Affiliates |
| IN-COM-V1 | SN: Incoming Comm Voice 1 |
| IN-COM-V2 | SN: Incoming Comm Voice 2 |
| IN-COM-T1 | SN: Incoming Comm Text 1 |
| IN-COM-T2 | SN: Incoming Comm Text 2 |
| OUT-COM-V1 | SN: Outgoing Comm Voice 1 |
| OUT-COM-V2 | SN: Outgoing Comm Voice 2 |
| OUT-COM-T1 | SN: Outgoing Comm Text 1 |
| OUT-COM-T2 | SN: Outgoing Comm Text 2 |
| OUT-COM-S | SN: Outgoing Comm Sign Lang |
| OUT-COM-B | SN: Outgoing Comm Braille |
| NCPPDSA | National Council for Persons with Physical Disabilities in SA |

Table 688: Lookup Query Input Parameter Values Per Lookup Function

| Lookup Query Type | Description | Element Attribute Input Values |
| --- | --- | --- |
| sel\_titles | Personal details – titles e.g. Mr, Mrs, | ELEMENT4 = ‘sel\_titles |
| LANGUAGE | Language of subscriber or in which SMS should be forwarded to subscriber when relevant | ELEMENT4 = ‘LANGUAGE’ |
| sel\_country | ISO Country codes | ELEMENT4 = ‘sel\_country’ |
| sel\_postal | Post codes, suburbs/towns, regions  *Note: This lookup is generally used where the user supplies a hint e.g. 1st 2 characters of the town or suburb for which they require the post code. A list of post codes matching their selection is displayed and the user can choose a post code entry.* | ELEMENT4 = ‘sel\_postal’  ELEMENT6 = place filter- 2 characters that are the first 2 letters of the suburb or town for which a post code is sought |
| ATTR CAT | Subscriber attributes per type | ELEMENT4 = ‘ATTR CAT’ |
| SUB ID TYPE | Identifier types (not only for subscriber) | ELEMENT4 = ‘SUB ID TYPE’ |
| EDLEVEL | Education Level of the subscriber | ELEMENT4 = ‘EDLEVEL’ |
| MARSTAT | Marital Status of the subscriber | ELEMENT4 = ‘MARSTAT’ |
| CTMTHD | The Contact Method the subscriber would prefer | ELEMENT4 = ‘CTMTHD’ |
| EMPSTAT | The Employment Status of the subscriber | ELEMENT4 = ‘EMPSTAT’ |
| EMPCAT | The Employer category of the subscriber | ELEMENT4 = ‘EMPCAT’ |
| ECSECT | The Economic Sector the Subscriber is employed in | ELEMENT4 = ‘ECSECT’ |
| INTHOB | The subscriber’s Interests and Hobbies | ELEMENT4 = ‘INTHOB’ |
| SPORTS | The subscriber’s sports | ELEMENT4 = ‘SPORTS’ |
| TERINST | The tertiary institution the subscriber attended | ELEMENT4 = ‘TERINST’  ELEMENT6 = place filter- 2 characters that are the first 2 letters of the tertiary institution sought |
| NEW OFFER ID | The offer available to migrate to. | ELEMENT2 = <icap id of the subscriber>  ELEMENT3 = ‘ICAP ID’  ELEMENT4 = ‘NEW OFFER ID’  ELEMENT5 = <sp code of the subscriber>  ELEMENT6 = ‘OFFER’  ELEMENT7 = <current offer ID> |
| NEEDS  SG  SANCB  DEAFSA  NEEDS-A  IN-COM-V1  IN-COM-V2  IN-COM-T1  IN-COM-T2  OUT-COM-V1  OUT-COM-V2  OUT-COM-T1  OUT-COM-T2  OUT-COM-S  OUT-COM-B NCPPDSA | Specific Needs of the Subscriber | ACTION TYPE: ‘MNGATT’  ELEMENT4 = ‘sel\_needs’  ELEMENT5 = <lookup query type for specific needs>  ELEMENT6 = <filter> |

The following output attributes are defaults for the Lookup return values (**Error! Reference source not found.**)

* ACTION TYPE = as received from client = function selector
* ELEMENT5 = null
* ELEMENT6 = ‘data’
* ELEMENT7 = null

Note: Typically when displaying the user the set of parameter options to select from, the user is displayed the value contained in ELEMENT3, but when submitting to iCAP, the value in ELEMENT4 should be entered.

Table 689: Lookup Query Output Parameter Values Per Lookup Function

| Lookup Query Type | Description | Element Attribute Output Values | Elements Used |
| --- | --- | --- | --- |
| sel\_titles | Personal details – titles e.g. Mr, Mrs, | ELEMENT2 = ‘sel\_titles’  ELEMENT3 = Title  ELEMENT4 = Title (repeat) | Display to user – ELEMENT3  Submit to iCAP – ELEMENT4 |
| LANGUAGE | Language of subscriber or in which SMS should be forwarded to subscriber when relevant | ELEMENT2 = ‘LANGUAGE’  ELEMENT3 = Language Description  ELEMENT4 = Language Code | Display to user – ELEMENT3  Submit to iCAP – ELEMENT4 |
| sel\_country | ISO Country codes | ELEMENT2 = ‘sel\_country’  ELEMENT3 = Country Description  ELEMENT4 = Country Code | Display to user – ELEMENT3  Submit to iCAP – ELEMENT4 |
| sel\_postal | Post codes, suburbs/towns, regions | ELEMENT2 = ‘sel\_postal’  ELEMENT3 = Comma delimited list consisting of: Place1, Place 2, Post Code, P/S (postal or street code indicator), region  ELEMENT4 = Repeat of above | Display to user – ELEMENT3 as a comma delimited list.  Submit to iCAP – ELEMENT4  ‘Post Code’ as filtered out of comma-delimited list from Element4, based on row selected by user |
| ATTR CAT | Subscriber attributes per type | ELEMENT2 = ‘ATTR CAT’  ELEMENT3 = Subscriber attribute description  ELEMENT4 = comma delimited list consisting of the subscriber attribute category ID, subscriber attribute ID, rule, subscriber attribute category description | What to display to the user will depend on the function selector being executed. See specific function selector for details of what parameters to filter out.  Client should process the comma delimited list returned in ELEMENT 4 and filter if necessary on parameter subscriber attribute category ID. The rule indicates for that subscriber attribute category ID, how many subscriber attributes may or must be activated  e.g. ‘<=1’ means that one or less must be activated i.e. optional,  ‘=1’ means that user can only select one and one selection (if >1 option) is mandatory,  ‘>=1’ means that selection (if >1 option) is mandatory and user can select more than one option.  Display to user ELEMENT3 after filtering in ELEMENT4. Submit to iCAP subscriber attribute category ID and subscriber attribute ID for rows selected by user. |
| SUB ID TYPE | Identifier types (not only for subscriber) | ELEMENT2 = ‘SUB ID TYPE’  ELEMENT3 = ID type description  ELEMENT4 = ID type code | Display to user – ELEMENT3  Submit to iCAP – ELEMENT4 |
| EDLEVEL | Subscriber’s Education Level | ELEMENT2 = ‘EDLEVEL’  ELEMENT3 = Education Level Description  ELEMENT4 = Education Level Code | Display to user – ELEMENT3  Submit to iCAP – ELEMENT4 |
| MARSTAT | Subscriber’s Marital Status | ELEMENT2 = ‘MARSTAT’  ELEMENT3 = Marital Status Description  ELEMENT4 = Marital Status Code | Display to user – ELEMENT3  Submit to iCAP – ELEMENT4 |
| CTMTHD | Subscriber’s Preferred Contact Method | ELEMENT2 = ‘CTMTHD’  ELEMENT3 = Contact Method Description  ELEMENT4 = Contact Method Code | Display to user – ELEMENT3  Submit to iCAP – ELEMENT4 |
| EMPSTAT | Subscriber’s Employment Status | ELEMENT2 = ‘EMPSTAT’  ELEMENT3 = Employment Status Description  ELEMENT4 = Employment Status Code | Display to user – ELEMENT3  Submit to iCAP – ELEMENT4 |
| EMPCAT | Subscriber’s Employer Category | ELEMENT2 = ‘EMPCAT’  ELEMENT3 = Employer Category Description  ELEMENT4 = Employer Category Code | Display to user – ELEMENT3  Submit to iCAP – ELEMENT4 |
| ECSECT | The Economic Sector the Employee works in | ELEMENT2 = ‘ECSECT’  ELEMENT3 = Economic Sector Description  ELEMENT4 = Economic Sector Code | Display to user – ELEMENT3  Submit to iCAP – ELEMENT4 |
| INTHOB | Subscriber’s interests and hobbies | ELEMENT2 = ‘INTHOB’  ELEMENT3 = Interest and Hobbies Description  ELEMENT4 = Interest and Hobbies Code | Display to user – ELEMENT3  Submit to iCAP – ELEMENT4 |
| SPORTS | Subscriber’s Sports | ELEMENT2 = ‘SPORTS’  ELEMENT3 = Sports Description  ELEMENT4 = Sports Code | Display to user – ELEMENT3  Submit to iCAP – ELEMENT4 |
| TERINST | Tertiary Institution the Subscriber Attended | ELEMENT2 = ‘TERINST’  ELEMENT3 = Tertiary Institution Description  ELEMENT4 = Tertiary Institution Code | Display to user – ELEMENT3  Submit to iCAP – ELEMENT4 |
| NEW OFFER ID | The new offer available to migrate to | ELEMENT2 = ‘NEW OFFER ID’  ELEMENT3 = Offer Description  ELEMENT4 = Offer Code | Display to user – ELEMENT3  Submit to iCAP – ELEMENT4 |
|  |  |  |  |
| NEEDS  SG  SANCB  DEAFSA  NEEDS-A  IN-COM-V1  IN-COM-V2  IN-COM-T1  IN-COM-T2  OUT-COM-V1  OUT-COM-V2  OUT-COM-T1  OUT-COM-T2  OUT-COM-S  OUT-COM-B  NCPPDSA | Subscriber’s needs | ELEMENT3 = Need Description  ELEMENT4 = Need Details | Display to user – ELEMENT3  Details about the special needs item - ELEMENT4.  Format:  e.g. SANCB,163,<=,1,SA National Council for the Blind  Needs Type, Needs Type Identifier, Qualifier type, Number of items allowed, Attribute Description |
| REDPLP | Redeem Loyalty Points | actionType = REDPLP; elementTwo = "" elementThree = "" elementFour = "LANGUAGE" / "sel\_reasoncn" / "sel\_reqparty" elementFive = REDPLP  elementSix = "" elementSeven = "" |  |

### Provision: Update Call Limit Lock Setting {UPDCLL}

Function Selector: UPDCLL

IDL Function: PerfromFunction

This function will be called in order to set the values of the spend limit type.

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| SUB ID | Mandatory | String | See *Table 2: Subscriber Identifiers* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| LIMIT TYPE | Mandatory | String | The Call limit type  VLL- National Voice Limit  SLL – National SMS Limit  DLL – National Data Limit |
| AMOUNT | Mandatory | String | Amount of limit in Rands |
| ACTION | Optional |  | The action to take when the liomit is breached. The options are NAL and NOT  NAL – notify and lock  NOT – notify only  If this attribute is not used then the default is NAL |

### Provision: Request to Roll Over Data Bundle {RTRODB}

Function Selector: RTRODB

IDL Function: PerfromFunction

This function will allow the subscriber to roll over eligible bundles that are close to expiring.

Table 690 Request to Roll Over Data Bundle -In Attribute list

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| SUB ID | Mandatory | String | See *Table 2: Subscriber Identifiers* |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
| SERVICE | Mandatory | String | Package ID for Prepaid/Hybrid subscribers  E.g. SPIncData10GB or  CCS Offering ID for Postpaid subscribers E.g. 65124 |
| INSTANCE | Mandatory | String | The Instance ID of the bundle. This is for postpaid subscribers. E.g. 701000000000403827  For prepaid and hybrid susbcribers this needs to be populated by the SERVICE value (E.g. SPIncData10GB) |
| DESCRIPTION | Mandatory | String | The description of the service. Example: 500MB MI Once-off |
| OLD EXPIRY DATE | Mandatory | Date | The current expiry date before the roll over of the data bundle. This value is from the equivalent field in QRYROB.  Example: 2018-06-06 23:59:59 |
| EXPIRY DATE | Mandatory | Date | It will be calculated as the current expiry date + 7 days. This value is from the equivalent field in QRYROB.  Format YYYY-MM-DD HH24:MI:SS |
| REMAINING AMOUNT | Mandatory | String | Determined by CCS or OCS manager depending on the bundle  The number of Bytes |
| TID PREFIX | Mandatory | String | This value is from the equivalent field in QRYROB. |
| COST | Mandatory | String | This is the cost for rolling over a bundle in rands/cents E.g. 10.00 |

### Provision: Manage Data Transfer List {MNGDTL}

Function Selector: MNGDTL

IDL Function: PerfromFunction

The function will be used to manage data transfer list by adding or deleting recipient MSISDN’s.

Table 691 Manage Data Transfer List - In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUBSCRIBER ID | Mandatory | String | See Table 2 |
| SUBSCRIBER ID TYPE | Mandatory | String | M (MSISDN) |
| ACTION TYPE | Mandatory | String | Add or DEL  This is for adding or deleting the recipient/s for data transfer |
| RECIPIENT MSISDN | Mandatory | String | MSISDN - 10 digit format |

### Provision: Request to Transfer Data Bundle {RTTDBN}

Function Selector: RTTDBN

IDL Function: PerformFunction

This function will allow the subscriber to transfer data bundles to a receiving MSISDN when the bundles are close to expiry.

Table 692: Request to Transfer Data Bundle - In Attribute list

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| SUB ID | Mandatory | String | See *Table 2: Subscriber Identifiers* |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
| RECIPIENT MSISDN | Mandatory | String | The MSISDN that shall receive the data transfer bundle |
| SERVICE | Optional | String | ~~Package ID of the bundle to transfer from for Prepaid/Hybrid subscribers~~  ~~e.g. SPIncData10GB~~  Base 36 CCS Service Offering ID  E.g. D066 |
| INSTANCE | Optional | String | The Instance ID of the bundle. ~~This is for postpaid subscribers only~~. E.g. 701000000000403827  ~~For prepaid and hybrid susbcribers this needs to be populated by the SERVICE value (E.g. SPIncData10GB)~~ |
| QUANTITY | Mandatory | String | The size of the Transfer Bundle in Bytes. This is the quantity to be deducted from the original bundle to share from  E.g. 1024\*1024 \*100 = 104857600 bytes 100MB |
| OLD EXPIRY DATE | Optional | Date | The expiry date of the original bundle. This value is from the equivalent field in QRYTBN.  Example: 2018-06-06 23:59:59 |
| COST | Mandatory | String | This is the cost of Transfering a data bundle in rands/cents E.g. 30.00 |
| TID PREFIX | Mandatory | String | This value is from the equivalent field in QRYTBN. |
| VALIDITY\_n | Mandatory | String | The bundle duration. Eg. ‘Hourly’, ‘Daily’, ‘Monthly’, ‘Weekend’ |

### Provision: Lock Subscriber Outgoing Services except MPESA {LCKOEM}

Function Selector: LCKOEM

IDL Function: PerformFunction

The function will be used to lock a subscriber outgoing services except for MPESA USSD.

Table 693 Lock Subscriber Service except MPESA - In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |

### Provision: Unlock Subscriber Outgoing Services except MPESA {UNLOEM}

Function Selector: UNLOEM

IDL Function: PerformFunction

The function will be used to unlock a subscriber outgoing services except for MPESA USSD.

Table 694 Unlock Subscriber Service except MPESA - In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |

### Provision: SIM Swap for Contract Subscribers {SIMCHC}

Function Selector: SIMCHC (function seq 2387)

IDL Function: PerformFunction

This function is specific to DRC and will allow a user to perform a SIM swap for Contract (both Hybrid and Postpaid) subscribers.

If AGENT MSISDN is supplied

AGENT MSISDN must be linked to a valid iCAP User that has access to the Sim Swap function Else, reject with error message with specific error code

SUB MSISDN must be valid and allocated to an active contract subscriber (postpaid or hybrid) Else, reject with error message with specific error code

NEW ICCID must be valid and unused Else, reject with error message with specific error code

If CASE AGENT MSISDN is NOT supplied

SUB MSISDN must be valid and allocated to an active contract subscriber (postpaid or hybrid) Else, reject with error message with specific error code

NEW ICCID must be valid and unused Else, reject with error message with specific error code

Table 695 - Provision: SIM Swap – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| ORIGIN ID | Mandatory | String | 2 character origin id e.g. |
| AGENT MSISDN | Optional | String | See Table 2 |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| NEW ICCID | Mandatory | String(20) | New SIM Serial (ICCID) |

The SIM Swap must not Pend and SIM Swap suspension (locking) must not apply. It will invoke the following existing Request types on the Database:

* If new ICCID is a Replacement SIM - SIMCHG
* If new ICCID is a Starter Pack – SWPPPI

### Provision: Update the EVC Level for Voda-e Subscriber - DRC { MODVDE}

Function Selector: MODVDE

IDL Function: PerformFunction

This function will update EVC Level service attribute on the ARF Admin Restricted Flag (ARF) Service for a subscriber.

Table 696 - Provision: Update EVC Level for Voda-e Subscriber – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SERVICE ID | Optional | String | Only the following Service ID’s provisioning requests shall be  Accepted:  o Admin Restricted Flag: **‘ARF’** |
| EVC LEVEL | Mandatory | String(3) | Valid Input Item Value – must allow for this to be 3 digits e.g. 100. |

### Provision: Activate and Register a Subscriber { ACTRGL} - DRC Only

Function Selector: ACTRGL

IDL Function: PerformFunction

This function will activate a prepaid subscriber and do ID Count check (QIDRGL).

Table 697: Activate and Register a Subscriber – InAttributeList

| Parameter Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | MSISDN, ICCID (MSISDN is also used for pseudonumber) |
| AGENT MSISDN | Mandatory | String | Must belong to a valid iCAP AGENT. |
| USER SEQ | Mandatory | String | Value returned by PerformLogon |
| PUK1 | Mandatory | String | PUK1 is mandatory and must be validated. |
| ID TYPE | Mandatory | String | Valid for RICA ID Type – will be used for REG Count check |
| ID NUMBER | Mandatory | String | Will be used for REG Count check |
| FIRST NAME | Conditional | String | Mandatory for ID TYPE <> ‘CE’, ‘P’ and ‘UI2’ otherwise optional |
| INITIALS | Conditional | String | Mandatory for ID TYPE <> ‘CE’, ‘P’ and ‘UI2’ otherwise optional |
| SURNAME | Conditional | String | Mandatory for ID TYPE <> ‘CE’, ‘P’ and ‘UI2’ otherwise optional |
| DOB | Optional | Date | ‘yyyy-mm-dd’ |

Table 698 : ACTRGL - Out Attribute List

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| REQUEST SEQ | String | Request Seq of ACTPPS |
| REQUEST ID | String |  |
| SU\_SEQ | String | Subscriber ICAPID |
| T11\_MSISDN | String | T11\_MSISDN allocated |
| ID NUMBER | String | ID |
| ID COUNT | String | Number of times ID used |
| ID MAX RESUSE | String | Max Count allowed. |
| RESPONSE TEXT | String |  |
|  |  |  |

Table 699 : ACTRGL Responses

|  |  |
| --- | --- |
| **Response Text** | **Condition** |
| ~~Registration Authorized~~ | ~~Max threshold not reached~~ |
| Registration not authorized. Allowed ID Number reuse threshold reached. Reuse count for input ID number '" + idNumber + "' = " + idCount | Max threshold reached |
| Action Failed. Missing values for names | If mandatory Names not supplied for ID TYPE <> ‘CE’, ‘P’ and ‘UI2’ |
| ID has been Blacklisted due to SIMBOX activity | ID exists on the SA\_SIMBOX\_ID\_BLACKLISTINGS table with status of Blacklisted. |

Business logic:

1. Verify MSISDN is related to an active agent, if false -> Fail request with specific error message and error code
2. Verify user is authorized to request this function, if false -> Fail request with specific error message and error code
3. Verify the ID is not blacklisted, i.e. check if ID does not exist on sa\_simbox\_id\_blacklistings table as Blacklisted, if false -> Fail request with error message ‘ID has been Blacklisted due to SIMBOX activity’ and error code 150.
4. Verify ID max re-use based (validation rules as per the existing function QIDRGL hence the input fields names and DOB. However the date from which to scan the database should be configurable. E.g. if start date is 31-Oct-2018 when this project goes live, then no subscriber would have reached the threshold; if start date is 01-jan-2016 then ICAP shall count all active L role from that point for all active subscribers.)
   * CASE ID max re-use is reached -> Fail request with specific error message and error code and return id re-use count for the id including the id number itself
   * CASE ID max re-use is NOT reached
     + Verify SUB ID (ICCID) is valid starterpack, if false -> Fail request with specific error message and error code and return id re-use count for the id including the id number itself and return max id re-use count for the id type
     + Verify PUK is valid for the ICCID, if false -> Fail request with specific error message and error code and return id re-use count for the id including the id number itself and return max id re-use count for the id type
     + Log SIM pre-activation request on the subscriber (~~CRERGL which~~ logs ACTPPS) and return success message and return id re-use count for the id including the id number itself and return allocated T11\_MSISDN and return max id re-use count for the id type
5. Call new stored procedure to do ID capping validation check. Refer to DRFS-065 for details.

The KYC system shall use the returned T11\_MSISDN (10 digit format) and present it on the mobile application. Then the agent can continue with the registration process and submit collected KYC for verification by a team at back office.

**ID**

### Provision: Reserve Special Number Prepaid Subscriber {RESMS2}

Function Selector: RESMS2

IDL Function: PerformFunction

This function will attempt to reserve the requested MSISDN or else will return an amount of available MSISDNs to the calling client. The amount is configurable e.g. 5 numbers. The function will return the first available MSISDN found, if the desired MSISDN is not specified. The reserved MSISDN can then be used in the activation of an MSISDNless Starter Pack or Deleted Starter Pack with pseudo number (ref function ACTPPS). The reserved MSISDN shall be reserved for a configurable period of time (default 15 minutes). During this time period on the AGENT MSISDN may use these numbers for activating a prepaid subscriber. On expiry of the time period or successful connection of one of the numbers by the AGENT, the remaining numbers will be released.

Please see TZFS-134 for rules on matching the MSISDN.

Table 700 - Provision: Reserve MSISDN for Prepaid Subscriber – In AttributeList

| Attribute Name | Mandatory/ Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| AGENT MSISDN | Mandatory | String | The AGENT MSISDN is checked against the activation agents registered on iCAP. |
| DIGITS TO MATCH | Mandatory | String | 6 DIGITS required to match |
| ICCID | Optional | String(19) | The subscribers ICCID in 19 digit format. |

Table 701 - Reserved MSISDN’s – Out AttributeList

| Attribute Name | Format | Attribute Value Description |
| --- | --- | --- |
| MSISDN\_1 | String | The MSISDN returned in 10 digit format e.g. 0829801234 or MSISDN in Number Plan appropriate format - see [3.2] |
| MSISDN\_2 | String | The MSISDN returned in 10 digit format e.g. 0829801234 or MSISDN in Number Plan appropriate format - see [3.2] |
| MSISDN\_3 | String | The MSISDN returned in 10 digit format e.g. 0829801234 or MSISDN in Number Plan appropriate format - see [3.2] |
| MSISDN\_4 | String | The MSISDN returned in 10 digit format e.g. 0829801234 or MSISDN in Number Plan appropriate format - see [3.2] |
| MSISDN\_5 | String | The MSISDN returned in 10 digit format e.g. 0829801234 or MSISDN in Number Plan appropriate format - see [3.2] |

### Provision: Create Service Request {CSRPSR}

Function Selector: CSRPSR

IDL Function: PerformFunction

This function will call the SRM method createSRwithAttachments to create a subscriber service request. The function will fail if the Group Type and Fault type provided does not have an entry in the SLA routing rules table.

Table 702: Provision: Create SRM Service Request – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| SOURCE | Mandatory | String | Default = Web Portal |
| DESCRIPTION | Mandatory | String | Description of the application fault |
| FIRST NAME | Mandatory | String | First name of contact for whom service request is being created. |
| SURNAME | Mandatory | String | Last name of contact for whom service request is being created. |
| EMAIL | Optional | String | E-mail address of Contact |
| GROUP TYPE | Mandatory | String | Validated in DB GT/FT combination existing SLA Routing Rules |
| FAULT TYPE | Mandatory | String | Validated in DB GT/FT combination existing SLA Routing Rules |

Table 703: Provision: Create SRM Service Request – Out AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| GEN KEY | Mandatory | String(13) | SRM Service Request reference no on Morpheus |

### Provision: Send Corporate Registration Details {SNDSR3}

Function Selector: SNDSR3

IDL Function: PerformFunctionWithAttachment

Country: Tanzania

This function will be called by TZN’s eKYC system (CORBA Interface) to change the subscriber’s legal status for corporates, macjines and institutions. See TZFS-0244 for more information.

SNDSR3 will call the Stored Procedure P\_FREG\_SUB\_IMAGES which logs a CRERGL to register the subscriber. If the subscriber is already Registered it will result in UPDRGL request.

Note the new attributes added for TCRA are all mandatory but the check will be done in Database not in Highspeed.

Table 704 - Provision: Send Corporate Registration Details – In AttributeList

| Attribute Name | Mandatory/Optional | Condition  Mandatory | Format | Attribute Value Description |
| --- | --- | --- | --- | --- |
| SUB ID | Mandatory |  | String | See *Table 2* |
| SUB ID TYPE | Mandatory |  | String(1) | M (MSISDN) |
| REGISTRATION TYPE | Mandatory |  | String(4) | Please refer to Table 9 in TZFS-0244 |
| COMPANY NAME | Conditional | 2,3,4,5 | String | Company or Institution Name |
| TIN NUMBER | Conditional | 2,3 | String |  |
| TIN REGISTRATION DATE | Optional | 2,3 | String | If not provided will default to CORPORATE REG DATE format: (yyyy-MM-dd) |
| BUSINESS LICENSE NUMBER | Conditional | 2,3 | String |  |
| CORPORATE REG DATE | Conditional | 2,3 | String | From NIDA in format: (yyyy-MM-dd) |
| CERT OF INCORP NO | Conditional | 2,3 | String |  |
| CERT OF INCORP DATE | Optional | 2,3 | String | If not provided will default to CORPORATE REG DATE format: (yyyy-MM-dd) |
| CERT OF REG NO | Conditional | 2,3 | String |  |
| CERT OF REG DATE | Optional | 2,3 | String | If not provided will default to CORPORATE REG DATE format: (yyyy-MM-dd) |
| COMPANY EMAIL | Conditional | 3 | String |  |
| FIRST NAME | Mandatory |  | String | SPOC / Individual - Maximum 20 characters |
| LAST NAME | Mandatory |  | String | SPOC / Individual - Maximum 64 characters |
| MIDDLE NAME | Mandatory |  | String | SPOC / Individual |
| ID TYPE | Mandatory |  | String | SPOC / Individual -‘N’ – National Identity Number |
| ID NUMBER | Mandatory |  | VARCHAR2(50) | SPOC / Individual - Maximum 50 characters |
| EXPIRY DATE | Optional |  | String | Optional field only applies if ID Type and ID No supplied. Must be in the future, format (DD-MM-YYYY). |
| REG\_STATE | Mandatory |  | String | Allowed values will be:  FREG – fully registered (default) |
| VERIFICATION DATE | Mandatory |  | String | From NIDA in format: (yyyy-MM-dd HH:mm:ss) |
| AGENT NAME | Mandatory |  | String | e.g. Sayayi Sengerema |
| AGENT CODE | Mandatory |  | String | 13243 |
| AGENT TYPE | Mandatory |  | String | Franchise, Wholesaler, Freelancer, etc |
| AGENT NO | Mandatory  (Check done in DB) |  | String | Agents MSISDN 12 digit format – 255754795061 will be assigned to AGENT MSISDN before logging DB request. |
| DOB | Mandatory |  | String | Subscriber’s date of birth  TZN will send in this format: SUBSCRIBER DOB (DD-MM-YYYY) |
| ADDRESS | Mandatory |  | String | Subscriber’s address |
| POSTAL CODE | Mandatory |  | String | Postal Code |
| LOCATION | Mandatory |  | String |  |
| REGION | Mandatory |  | String |  |
| WARD | Mandatory |  | String |  |
| DISTRICT | Mandatory |  | String | District |
| NATIONALITY | Mandatory |  | String(2) |  |
| EMAIL | Mandatory |  | String | SPOC / Individual |
| CONTACT NUMBER | Mandatory | 2,3,4,5 | String | SPOC / Individual |
| USERNAME | Optional |  | String | To be displayed on Subscriber Profile in MO if present |
| GENDER | Mandatory |  | String | Allowed Values = ‘M’ / ‘F’ |
| BIOMETRIC IND | Optional |  | String | Always = ‘Y’ |
| CUSTOMER PICTURE | Mandatory |  | Byte Array |  |
| ID FRONT | Optional |  | Byte Array | Only required if BIOMETRIC IND <> ‘Y’ |
| ID BACK | Optional |  | Byte Array | Only required if BIOMETRIC IND <> ‘Y’ |
| CUSTOMER SIGNATURE | Optional |  | Byte Array | Only required if BIOMETRIC IND <> ‘Y’ |
| AGENT SIGNATURE | Optional |  | Byte Array | Only required if BIOMETRIC IND <> ‘Y’ |
| TIN DOCUMENT | Conditional | 2,3 | Byte Array | Certified TIN document (JPEG format) – Event Type SUBREG |
| BUSINESS LICENCE DOC | Conditional | 2,3 | Byte Array | Certified business Licence document (JPEG format) – Event Type SUBREG |
| CERTIFIED CERTIFICATE | Conditional | 2,3 | Byte Array | Certified certificate of Incorporation / compliance / registration (JPEG document) – Event Type SUBREG |
| INSTITUTION INTRO LETTER | Conditional | 4,5 | Byte Array | Institution’s introductory letter in JPEG forma t– Event Type SUBREG |
| TRANSACTION ID | Mandatory |  | Numeric | Mandatory for Biometric Registration.Transaction ID (number) assigned by NIDA system to the biometric verification event/activity |
| PASSPORT | Conditional | 5 | Byte Array |  |
| DIPLOMATIC ID | Conditional | 5 | Byte Array |  |
| MINISTRY INTRO LETTER | Conditional | 5 | Byte Array |  |
| TCRA STATUS | Mandatory |  | String | PRIMARY / SECONDARY |

Note on Update not all the mandatory attributes are required only the attributes that need to be updated and SUB ID and SUB ID TYPE.

The images will be sent through as an array of Isis.Attachment[] objects (see below the draft object definitions).

Each image must have the following ID to be able to identify them ***or*** we can use the name variable:

TaskResult PerformFunctionWithAttachment(

in string<2> originId,                         // Origin ID

in long userId,                              // User Id

in string<255> securityKey,                   // Security Key

in string<32> functionSelector,                // Function Identifier

in Isis::AttachmentList attachmentList,       // List of Attachments

inout Isis::AttributeList attributeList) // Function Attributes/Result Attributes

raises(Isis::InterfaceError);

// Attachment

struct Attachment

{

string id;                 // Attachment Id

string name;               // File Name

string mimeType;           // Mime Type

sequence<octet> content;  // Content

};

where

* **id** identifies the photo – Please refer to Table 8 in TZFS-0244 for full list.
  + 1 = Customer Picture
  + 2 = ID Front
  + 3 = ID Back
  + 4 = Customer Signature
  + 5 = Agent Signature
  + 6 = Police Report
  + 7 = Tin Document
  + 8 = Business Licence Doc
  + 9 = Certfied Certficate
  + 10 = Institution Intro Letter
* **Name** – can be the attachment file name – ***not required OR use attribute names***
* **mimeType** – identified the file mime type – ***optional (if known)*** – Is this required?
* ***content*** – the image raw data (byte array)

### Provision: Manage MOne Mailbox Settings {MNGMON}

Function Selector: MNGMON

IDL Function: PerformFunction

This function allows the management of MOne mailbox settings like setting the New User Tutorial flag to complete and activating voice deposits to the mailbox.

Table 705 - Provision: Request MNGMON – In AttributeList

| Parameter Name | Mandatory / Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | Subscriber’s 10 digit MSISDN e.g. 0829805010 |
| SUB ID TYPE | Mandatory | String | MSISDN |
| MOne Attribute List | | | | |
| Attribute Name | Mandatory / Optional | Format | Description |
| NUT YN | Conditional – Mandatory if VOICE DEPOSIT YN is not supplied | String | ‘Y’ – set New User Tutorial as completed. |
| VOICE DEPOSIT YN | Conditional – Mandatory if NUT YN is not supplied | String | ‘Y’ – Activate Voice Deposit on mailbox  ‘N’ – de-activate Voice Deposit and activate Missed Call Notification |

### Provision: Add Norton Service Request {ADDNOR}

Function Selector: ADDNOR

IDL Function: PerformFunction

This function will purchase a Norton VAS via OSS Fusion that will update Norton and return license details to ICAP.

Table 706: Provision: Add Norton Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| PRODUCT | Mandatory | String | The SOID of the product to be activated for the subscriber |

### Provision: Delete Norton Service Request {DELNOR}

Function Selector: DELNOR

IDL Function: PerformFunction

This function will delete a Norton VAS via OSS Fusion.

Table 707: Provision: Remove Norton Service – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| PRODUCT | Mandatory | String | The SOID of the product to be deactivated for the subscriber |

### Provision: Resend Norton License Key {RESNOR}

Function Selector: RESNOR

IDL Function: PerformFunction

This function will resend a Norton license key to the subscriber.

Table 708: Provision: Resend Norton license key – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| PRODUCT | Optional | String | The Product ID as returned in QRYNOR |

### Provision: Deregister Biometric Registered Subscriber {DEREGB}

Function Selector: DEREGB

IDL Function: PerformFunction

This function will deregister a prepaid subscriber that has been biometrically registered. If the subscriber MSISDN is not prepaid or has not been biometrically registered it will raise an exception. The requesting MSISDN should also be a valid Vodacom MSISDN.

Table 709 - Provision: Deregister Biometric Registered Subscriber – In AttributeList

| Parameter Name | Mandatory / Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | Subscriber’s 10 digit MSISDN e.g. 0759805010 |
| SUB ID TYPE | Mandatory | String | MSISDN (M) |
| REQUESTING MSISDN | Mandatory | String | MSISDN of the Requestor e.g. 0759776512. |

The function will log a DEREGB request type for the subscriber’s MSISDN.

### Provision: Delete Prepaid Subscriber {DELSSB}

Function Selector: DELSSB

IDL Function: PerformFunction

This function will delete a prepaid subscriber. If the subscriber MSISDN is not prepaid it will raise an exception.

Table 710 - Provision: Delete Prepaid Subscriber – In AttributeList

| Parameter Name | Mandatory / Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | Subscriber’s 10 digit MSISDN e.g. 0759805010 |
| SUB ID TYPE | Mandatory | String | MSISDN (M) |

The function will log a DELPPS request type for the subscriber’s MSISDN.

### Provision: Update TCRA Status {UPTCRA}

Function Selector: UPTCRA

IDL Function: PerformFunction

This function will update the TCRA STATUS of a registered subscriber in iCAP and unlock the subscriber on MPESA, OCS, RMS, HLR and USSD. If the subscriber is not registered it will raise an exception in the DB.

Table 711 - Provision: Update TCRA Status – In AttributeList

| Parameter Name | Mandatory / Optional | Format | Parameter Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | Subscriber’s 10 digit MSISDN e.g. 0759805010 |
| SUB ID TYPE | Mandatory | String | MSISDN (M) |
| TCRA STATUS | Mandatory | String | PRIMARY / SECONDARY |

The function will log a UPTCRA request type for the subscriber’s MSISDN.

### Provision: Add MNP Exclusion Flag {ADDMNP}

Function Selector: ADDMNP

IDL Function: PerformFunction

This function will add the subscriber’s content block attribute to the Subscriber’s Profile.

Table 712 - Provisioning: Add MNP Exclusion Flag – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
|  |  |  |  |
|  |  |  |  |

### Provision: Remove MNP Exclusion Flag {REMMNP}

Function Selector: REMMNP

IDL Function: PerformFunction

This function will remove the subscriber’s content block attribute to the Subscriber’s Profile.

Table 713 - Provisioning: Remove MNP Exclusion Flag – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See *Table 2* |
| SUB ID TYPE | Mandatory | String | M (MSISDN) |
|  |  |  |  |
|  |  |  |  |

### Provision: Migrate Offer2 {MIGPR2}

Function Selector: MIGPR2 (DRC)

IDL Function: PerformFunction

Function sequence 2760

This will be used to migrate DRC Prepaid and Hybrid subs, either

* To their configured “Jail “offer if they are not already on a Jail Offer. This is when they have not paid their RAM (CEIR) fee.
* From a “Jail” offer back to their original (previous) offer when their CEIR tax has been paid.

It will allow both Prepaid to Prepaid (MIGPRD request on DB) and Hybrid to Hybrid Migrations (MIGOF2 request on DB).

Table 714 – Provision: Migrate Offer2 – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| ~~NEW OFFER ID~~ | ~~Conditional~~  ~~If RELEASE FROM JAIL = N then this is mandatory~~ | ~~String~~ | ~~The New Offer ID~~  ~~If RELEASE FROM JAIL = Y then this attribute will be overidden with the subscibers previous (original) offer (based on Request history)~~ |
| ~~RELEASE FROM JAIL~~ | ~~Optional~~ | ~~String~~  ~~Y or N~~ | ~~Y/N. Defaults to Y if not passed in~~  ~~If Y, ICAP will validate that the~~ ~~sub is currently on a Jail offer. If not it will fail.~~  ~~It will also overide the value of the New Offer ID attribute with the subs previous (original) offer (based on Request history)~~ |

#### DRC Specific Rules for MIGPR2

If the subscriber is Prepaid

If sub is **already** on a Jail offer

* Perform DB Lookup to get the subs previous (original) offer via Request History
* call the MIGPRD request on the DB populating the NEW OFFER ID Request attribute with the Subs previous Offer ID. And request attribute “Provision BADSV1 command” = N

If sub is **not** on a Jail offer

* Perform DB Lookup to get the configured Jail offer for the subs offer
* If no Jail offer found then return an error with a unique error code
* Else, call the MIGPRD request on the DB populating the NEW OFFER ID Request attribute with the configured Jail offer for the sub. And request attribute “Provision BADSV1 command” = Y

If the subscriber is Hybrid:

If sub is **already** on a Jail offer

* Perform DB Lookup to get the subs previous (original) offer via Request History
* call the MIGOF2 request on the DB populating the NEW OFFER ID request attribute with the Subs Previous Offer ID.

If sub is **not** on a Jail offer

* Perform DB Lookup to get the configured Jail offer for the subs offer
* If no Jail offer found then return an error with a unique error code

Else, call the MIGOF2 request on the DB populating the NEW OFFER ID Request attribute with the configured Jail offer for the sub. And request attribute “Provision BADSV1 command” = Y.

If the subscriber is Contract or deleted

return an error with (unique error code)

Non Fuctional requirement – The Highspeed MIGPR2 function must be able to handle a very high volumes of requests

### Provision: Roaming Management API (ROMACT)

Function Selector: ROMACT

IDL Function: PerformFunction

Country: TZN

ROMACT enables the prepaid subscriber to activate/deactivate roaming by executing a change class request (CLSCHG) to set ROM or INT class.

Function sequence 2761

Table 715 – Provision: Roaming Management – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SUB ID | Mandatory | String | See Table 2 |
| SUB ID TYPE | Mandatory | String(1) | M (MSISDN) |
| ACTION | Mandatory | String(50) | ACTIVATE – Moves the Subscriber to the ROM class OR  DEACTIVATE – Moves the Subscriber from ROM to INT class |

The following shall apply for ROMACT Actions:

1. ACTION is ACTIVATE

* If subscriber is already on the Roaming (ROM) class,

then throw an error, otherwise perform a CLSCHG request setting CLASS to ROM

1. ACTION is DEACTIVATE

* If subscriber is not on the Roaming (ROM) class then throw an error, otherwise perform a CLSCHG request setting CLASS to INT

### Provision: Request new OTP for DRC Sim Swap {NEWOTP}

Function Selector: NEWOTP (**DRC**)

IDL Function: PerformFunction

Function sequence 2793

This will be used to used to Request a new OTP for a pending Sim Swap

Table 716 – Request a new OTP – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| SIM SWAP MSISDN | Mandatory | String | This is the MSISDN of Subscriber being Sim Swapped  e.g. 0819853235 |
| SUBMITTING MSISDN | Mandatory | String | For Self Help Sim swaps validate that this is equal to the MSISDN that submitted the SIM swap request on behalf of the subscriber  For Agent Sim Swaps validate that this is equal to the AGENT MSISDN who submitted the SIM swap request on behalf of the subscriber.  If the Subscriber submitted the SIM swap request themselves (IE. in case of OTP\_4G\_YN = Y) then this must be equal to the MSISDN of Subscriber being Sim Swapped.  e.g. 0819853237 |

See DRFS-0233 for more details)

### Provision: Validate received OTP for Simswap {VALOTP}

Function Selector: VALOTP (DRC)

IDL Function: PerformFunction

Function sequence 2792

This will be used to used to Validate a received OTP for a pending Sim Swap request in the DRC

Table 718 – Validate received OTP – In AttributeList

| Attribute Name | Mandatory/Optional | Format | Attribute Value Description |
| --- | --- | --- | --- |
| OTP | Mandatory | string | 4 digit OTP. E.g. 1234 |
| SIM SWAP MSISDN | Mandatory | String | This is the MSISDN of Subscriber being Sim Swapped  e.g. 0819853235 |
| SUBMITTING MSISDN | Mandatory | String | For Self Help Sim swaps validate that this is equal to the MSISDN that submitted the SIM swap request on behalf of the subscriber  For Agent Sim Swaps validate that this is equal to the AGENT MSISDN who submitted the SIM swap request on behalf of the subscriber.  If the Subscriber submitted the SIM swap request themselves (in case of OTP\_4G\_YN = Y) then this must be equal to the MSISDN of Subscriber being Sim Swapped.  e.g. 0819853237 |

See DRFS-0233 for more details

**Exceptions**

Failures in provisioning requests and query requests shall result in exceptions. Exceptions shall be categorised into one of the following:

Application: Application error caught in the transaction SQL and stored procedure code, excluding database connection failures. It also includes implementation validation and mapping errors. It also includes any other exceptions raised by business rules and data objects.

No Data: No data found or no data returned from a query.

Database: the database connection failed.

System: System error detected, which may or may not be critical.

Communication Error: A communication error occurred to the network element.

The interface server shall return an error structure for each exception raised. The downstream server(s) called during request execution shall populate the error structure. Each error structure shall contain the following:

Error group (DATABASE\_ERROR, SYSTEM\_ERROR, APPLICATION\_ERROR, NO\_DATA\_ERROR, COMMS\_ERROR, OtherException, Exception)

Error string containing details of the exception raised.

If an attempt is made to execute a query or request that is not catered for in the interface, the client will receive an error:

* ‘Exception’ & ‘FUNCTION NOT ALLOWED!!!’

If a CORBA communication error occurs when attempting to bind to a business server to execute a query, lookup or request, the following error is returned:

‘OtherException’ & ‘org.omg.CORBA.COMM\_FAILURE’

# Limitations

* There may be instances where a request for an SMS is sent out, but the SMS cannot be generated as it has not be configured for the function executed.
* For the Latest Handset Information query, the Vodacom systems may not have the latest handset information due to time lags in processing the call data.

# Appendices

## High Speed External Interface IDL

//------------------------------------------------------------------------------

//

// Filename: HighSpeedExt.idl

//

// Description: HighSpeed Manager Interface (LBP)

//

// Author: ISIS Information Systems

//

// Date: 9 November 2004

//

//------------------------------------------------------------------------------

//------------------------------------------------------------------------------

//

// Module Declaration: HighSpeed

//

// Description: This module provides a HighSpeed Manager Interface

//

//------------------------------------------------------------------------------

#include "IsisCommon.idl"

module HighSpeed

{

//--------------------------------------------------------------------------

// Type definitions, structs, enumerations, unions and constants

//--------------------------------------------------------------------------

// Module version

const string Version = "2.0.1";

// Task result

enum TaskResult

{

successful,

failed,

unknown

};

// Service action

struct ServiceAction

{

string<15> currentSoId; // Current Service Offering on Offer

string<15> newSoId; // New Service Offering on Offer

string<3> actionType; // Action To Be Taken. Create, Delete, Modify

string<20> sid1; // Service ID

string<1> sid1Type; // Service ID Type

string<20> sid2; // Service ID

string<1> sid2Type; // Service ID Type

string<20> sid3; // Service ID

string<1> sid3Type; // Service ID Type

string<20> sid4; // Service ID

string<1> sid4Type; // Service ID Type

};

// Service action list

typedef sequence<ServiceAction> ServiceActionList;

// Action attribute

struct ActionAttribute

{

string satId; // Service Attribute Id

string currentSacId; // Current Service Action Id

string newSacId; // New Service Action Id

string dateFrom; // Date From

string dateTo; // Date To

};

// Action attribute list

typedef sequence<ActionAttribute> ActionAttributeList;

// Subscriber Attribute

struct SubAttribute

{

string dateFrom; // Start date of the subscriber attribute

string dateTo; // End date of the subscriber attribute

string benefitStartDate; // Date subscriber 's VCRP benefits start

string attCatID; // Attribute category id

string attCatDescription; // Attribute category description

string attTypeID; // Attribute type id

string attTypeDescription; // Attribute type subscription

};

// Subscriber Attribute List

typedef sequence<SubAttribute> SubAttributeList;

// Party Contact List

struct PartyContact

{

long seq; // Unique ID

string<1> addressInd; // Type of Address (postal or physical) Indicator

string<19> fromDate; // Date subscriber attain address

string address1; // Flat, House or P.O. Box number

string address2; // Street Name

string address3; // Additional address information

string suburb; // Suburb

string town; // City/Town

string<19> toDate; // Date subscriber relocated

string<12> postalCode; // Postal Code

string<2> countryId; // ID for country of residence

string region; // region of town

};

// Party Contact list

typedef sequence<PartyContact> PartyContactList;

// Party ID List

struct PartyId

{

long seq; // Unique ID

string<2> countryId; // Country of issue of ID document

string<40> idNumber; // Indentification number

string<1> idType; // ID type

};

// Party ID list

typedef sequence<PartyId> PartyIdList;

// Party Role List

struct PartyRole

{

long seq; // Unique ID

string<1> roleType; // Agent or Subscriber indicator

long suSeq; // ICAP ID

};

// Party Role list

typedef sequence<PartyRole> PartyRoleList;

// Party Contact Number List

struct PartyContactNum

{

long seq; // Unique ID

string<15> countryCode; // Country dialling code

string<15> areaNetCode; // Area network code

string<15> dialNum; // Dialling number

string<1> type; // Type

};

// Party Contact Number list

typedef sequence<PartyContactNum> PartyContactNumList;

// Customer Details consist of the following Party, PartyContact, PartyId, PartyRole, PartyContactNum

struct Party

{

long seq; // Details Id

long icapId; // Icap ID

string<1> icapRole; // Icap Role

string<10> titleId; // Subscriber's Title e.g. Mr, Mrs, Prof

string surname; // Subscriber's Surname

string firstName; // Subscriber's First Name

string<40> initials; // Subscriber's Initials

string<3> langCode; // Subscriber's Language

string<19> birthDate; // Subscriber's date of birth

string<1> activeYN; // Subscriber's status flag

string<1> listedYN; // List subscriber on national directory flag

string<1> gender; // Subscriber's Gender

PartyContactList contactList; // Customer Contact List

PartyIdList idList; // Customer ID List

PartyRoleList roleList; // Role list

PartyContactNumList contactNumList; // Contact number list

};

// Service request result

struct RequestResult

{

string resultName; // Result Attribute Name

string resultValue; // Result Attribute Value

};

// Service request result list

typedef sequence<RequestResult> RequestResultList;

// Lookup Structure

struct Lookup //---LookupIN---------------|---LookupOUT-----

{ //--------------------------|-------------

string actionType; // ActionType | ActionType

string elementTwo; // SubscriberID | Listboxname

string elementThree; // SubscriberID Type | DisplayValue

string elementFour; // Listboxidentifier | ParValue

string elementFive; // Service provider Code | null

string elementSix; // Package Identifier | Data Type

string elementSeven; // Service Type | Status

};

// List of Lookup structure

typedef sequence<Lookup> LookupList;

//--------------------------------------------------------------------------

//

// Interface declaration: HighSpeed Manager Interface

//

// Description: This interface provides Network Element Manager services.

//

//--------------------------------------------------------------------------

interface Manager

{

//----------------------------------------------------------------------

// Interface functions.

//----------------------------------------------------------------------

void PerformLogOn(

in string<2> originId, // Origin ID

in string<255> userName, // User Name

in string<12> passWord, // Password

out long userId, // User Id

out string<255> securityKey) // Security Key

raises(Isis::InterfaceError);

void PerformLogOff(

in string<2> originId, // Origin ID

in long userId, // User Id

in string<255> securityKey) // Security Key

raises(Isis::InterfaceError);

TaskResult PerformFunction(

in string<2> originId, // Origin ID

in long userId, // User Id

in string<255> securityKey, // Security Key

in string<32> functionSelector, // Function Identifier

inout Isis::AttributeList attributeList) // Function Attributes/Result Attributes

raises(Isis::InterfaceError);

TaskResult ExecFunction(

in string<2> originId, // Origin ID

in long userId, // User Id

in string<255> securityKey, // Security Key

in string<32> functionSelector, // Function Identifier

inout Isis::AttributeList attributeList, // Function Attributes/Result Attributes

inout HighSpeed::ServiceActionList serviceActionList, // List of Service Actions

inout HighSpeed::ActionAttributeList actionAttributeList, // List of Action Attributes

inout HighSpeed::Party partyDetails, // Party Details

out HighSpeed::RequestResultList requestResultList) // Service Request Results

raises(Isis::InterfaceError);

TaskResult QueryFunction(

in string<2> originId, // Origin ID

in long userId, // User Id

in string<255> securityKey, // Security Key

in string<32> functionSelector, // Function Identifier

inout Isis::AttributeList attributeList, // Function Attributes/Result Attributes

out HighSpeed::ServiceActionList serviceActionList, // List of Service Actions

out HighSpeed::ActionAttributeList actionAttributeList, // List of Action Attributes

out HighSpeed::SubAttributeList subAttributeList, // List of Subscriber Attributes

out HighSpeed::Party partyDetails, // Party Details

out HighSpeed::RequestResultList requestResultList) // Service Request Results

raises(Isis::InterfaceError);

TaskResult Lookup(

in string<2> originId, // Origin ID

in long userId, // User Id

in string<255> securityKey, // Security Key

in string<32> functionSelector, // Lookup Query Type

inout HighSpeed::LookupList lookupList) // Lookup results

raises(Isis::InterfaceError);

boolean ValidateSecurityKey(

in string<2> originId, // Origin ID

in long userId, // User Id

in string<255> securityKey) // Security Key

raises(Isis::InterfaceError);

};

};

//------------------------------------------------------------------------------

//------------------------------------------------------------------------------

//

// Filename: IsisCommon.idl

//

// Description: System common types

//

// Author: ISIS Information Systems

//

// Date: 07 Jan 2003

//

//------------------------------------------------------------------------------

//------------------------------------------------------------------------------

//

// Module Declaration: Isis

//

// Description: This module provides data types common to the

// system components

//

//------------------------------------------------------------------------------

#ifndef \_\_ISISCOMMON\_\_

#define \_\_ISISCOMMON\_\_

module Isis

{

//--------------------------------------------------------------------------

// Type definitions, structs, enumerations, unions and constants

//--------------------------------------------------------------------------

typedef string<19> Date; // YYYY-MM-DD HH24:MM:SS

// Attribute

struct Attrib

{

string attributeName; // Attribute Name

string attributeValue; // Attribute Value

};

// List of Attributes

typedef sequence<Attrib> AttributeList;

// Wide Attribute

struct WAttrib

{

wstring attributeName; // Attribute Name

wstring attributeValue; // Attribute Value

};

// List of Wide Attributes

typedef sequence<WAttrib> WAttributeList;

// Transaction Id

typedef sequence<octet, 16> oct\_16\_seq;

// Transaction Information

struct TransactionInfo

{

string<2> originId; // Origin Id

long userId; // User Id

oct\_16\_seq txId; // Transaction Id

string<16> externalUserId; // External System User Id

};

// Error groups

enum ErrorGroup

{

APPLICATION\_ERROR, // An application error ocurred

DATABASE\_ERROR, // A database error occured

NO\_DATA\_ERROR, // A no data found error ocurred

SYSTEM\_ERROR, // A system error ocurred

COMMUNICATIONS\_ERROR // A communication error ocurred

};

//--------------------------------------------------------------------------

// Exceptions

//--------------------------------------------------------------------------

// Interface exception

exception InterfaceError

{

Isis::ErrorGroup errorGroup; // Error group

string errorCode; // Error code

string errorMsg; // Error message

};

};

//------------------------------------------------------------------------------

#endif

## HTTP Highspeed Interface & Examples

=====================================================================

| Http Request details for ExecFunction: (maps to HighspeedExt.idl) |

=====================================================================

The following maps to Isis::AttributeList

-----------------------------------------

attributeName

attributeValue

The following maps to HighSpeed::ServiceActionList (the 0 increments if more than one in the list)

--------------------------------------------------

sa\_0\_actionType

sa\_0\_currentSoId

sa\_0\_newSoId

sa\_0\_sid1

sa\_0\_sid1Type

sa\_0\_actionType

sa\_0\_sid2

sa\_0\_sid2Type

sa\_0\_sid3Type

sa\_0\_sid4

sa\_0\_sid4Type

The following maps to HighSpeed::ActionAttributeList (the 0 increments if more than one in the list)

----------------------------------------------------

aa\_0\_satId

aa\_0\_currentSacId

aa\_0\_newSacId

aa\_0\_dateFrom

aa\_0\_dateTo

The following maps to HighSpeed::Party (the 0 increments if more than one in the list)

--------------------------------------

p\_seq

p\_icapId

p\_icapRole

p\_titleId

p\_surname

p\_firstName

p\_initials

p\_langCode

p\_birthDate

p\_activeYN

p\_listedYN

p\_gender

\*\* maps to Highspeed::PartyContactList

p\_cl\_0\_seq

p\_cl\_0\_addressInd

p\_cl\_0\_fromDate

p\_cl\_0\_address1

p\_cl\_0\_address2

p\_cl\_0\_address3

p\_cl\_0\_suburb

p\_cl\_0\_town

p\_cl\_0\_toDate

p\_cl\_0\_postalCode

p\_cl\_0\_countryId

p\_cl\_0\_region

\*\* maps to Highspeed::PartyIdList

p\_il\_0\_seq

p\_il\_0\_countryId

p\_il\_0\_idNumber

p\_il\_0\_idType

\*\* maps to Highspeed::PartyRoleList

p\_rl\_0\_seq

p\_rl\_0\_roleType

p\_rl\_0\_suSeq

\*\* maps to Highspeed::PartyContactNumList

p\_cnl\_0\_seq

p\_cnl\_0\_countryCode

p\_cnl\_0\_areaNetCode

p\_cnl\_0\_dialNum

p\_cnl\_0\_type

=============

| Examples: |

=============

PerformLogOn

------------

http://localhost:8080/highspeed-servlet/servlet/highspeed

?action=PerformLogOn

&originId=TC

&username=opswebtest

&password=stormers

Success Return xml result example:

----------------------------------

<?xml version="1.0" encoding="ISO-8859-1"?>

<icap-response>

<header>

<status>SUCCESS</status>

</header>

<body>

<attributes>

<attribute><name>userId</name><value>815</value></attribute>

<attribute><name>securityKey</name><value>opswebtest1324457490087</value></attribute>

</attributes>

</body>

</icap-response>

QueryFunction[QRGINF]

---------------------

http://localhost:8080/highspeed-servlet/servlet/highspeed

?action=QueryFunction

&originId=TC

&userId=815

&securityKey=opswebtest1272974388110

&functionSelector=QRGINF

&attributeName=SUB ID

&attributeValue=0810375999

&attributeName=SUB ID TYPE

&attributeValue=M

Success Return xml result example:

----------------------------------

<?xml version="1.0" encoding="ISO-8859-1"?>

<icap-response>

<header>

<status>SUCCESS</status>

</header>

<body>

<attributes>

<attribute>

<name>SUB ID</name>

<value>0810375999</value>

</attribute>

<attribute>

<name>SUB ID TYPE</name>

<value>M</value>

</attribute>

</attributes>

<serviceActions/>

<actionAttributes/>

<subAttributes/>

<party>

<seq>0</seq>

<icapId>0</icapId>

<icapRole/>

<titleId/>

<surname/>

<firstName/>

<initials/>

<langCode/>

<birthDate/>

<activeYN/>

<listedYN/>

<gender/>

<partyContactLists/>

<partyIdLists/>

<partyRoleLists/>

<partyContactNumLists/>

</party>

<requestResults>

<requestResult>

<resultName>STATUS</resultName>

<resultValue>NONE</resultValue>

</requestResult>

</requestResults>

</body>

</icap-response>

ExecFunction[CRERGL]

--------------------

http://localhost:8080/highspeed-servlet/servlet/highspeed

?action=ExecFunction

&originId=TC

&userId=815

&securityKey=opswebtest1273121272110

&functionSelector=CRERGL

&attributeName=FORM REFERENCE

&attributeValue=321

&attributeName=COMPANY NAME

&attributeValue=my shop cc

&attributeName=ADDRESS\_TYPE

&attributeValue=0

&attributeName=NATIONALITY

&attributeValue=N

&attributeName=JOB\_TITLE

&attributeValue=Manager

&attributeName=EXTERNAL\_POSTAL\_CODE

&attributeValue=1111

&attributeName=ID\_DATE\_TO

&attributeValue=

&attributeName=ROLE\_DATE\_TO

&attributeValue=

&attributeName=SUB ID

&attributeValue=0810375999

&attributeName=SUB ID TYPE

&attributeValue=M

&attributeName=CONTACT\_NUM\_DATE\_TO

&attributeValue=

&attributeName=AGENT\_ID

&attributeValue=ICAP\TJ

&p\_seq=0

&p\_icapId=3054

&p\_icapRole=L

&p\_titleId=Mr

&p\_surname=Josefs

&p\_firstName=Jan

&p\_initials=JJ

&p\_langCode=ENG

&p\_birthDate=2001-01-01

&p\_activeYN=N

&p\_listedYN=N

&p\_gender=M

&p\_cl\_0\_seq=0

&p\_cl\_0\_addressInd=S

&p\_cl\_0\_fromDate=2009-01-01

&p\_cl\_0\_address1=Adr11

&p\_cl\_0\_address2=Adr22

&p\_cl\_0\_address3=Adr33

&p\_cl\_0\_suburb=Sub

&p\_cl\_0\_town=Twn

&p\_cl\_0\_toDate=

&p\_cl\_0\_postalCode=1100

&p\_cl\_0\_countryId=CD

&p\_cl\_0\_region=Reg

&p\_il\_0\_seq=0

&p\_il\_0\_countryId=CD

&p\_il\_0\_idNumber=243810300033333

&p\_il\_0\_idType=B

&p\_rl\_0\_seq=0

&p\_rl\_0\_roleType=L

&p\_rl\_0\_suSeq=761

&p\_cnl\_0\_seq=0

&p\_cnl\_0\_countryCode=1234

&p\_cnl\_0\_areaNetCode=21

&p\_cnl\_0\_dialNum=123456789

&p\_cnl\_0\_type=C

[ACTPPS]

-------

http://int-drc:8080/highspeed-servlet/servlet/highspeed?action=PerformFunction&originId=TC&userId=815&securityKey=tj1296728964487&functionSelector=ACTPPS&attributeName=SUB ID&attributeValue=110250001992&attributeName=SUB ID TYPE&attributeValue=M

Error Examples:

--------------

<?xml version="1.0" encoding="ISO-8859-1"?>

<icap-response>

<header>

<status>FAILURE</status>

<error-code/>

<error-group>APPLICATION\_ERROR</error-group>

<error-message>Required parameter &apos;functionSelector&apos; is missing.</error-message>

</header>

<body>

<attributes/>

</body>

</icap-response>

<?xml version="1.0" encoding="ISO-8859-1"?>

<icap-response>

<header>

<status>FAILURE</status>

<error-code>Subscriber with ID # not found.</error-code>

<error-group>DATABASE\_ERROR</error-group>

<error-message>Subscriber with ID 243110250001992 not found.</error-message>

</header>

<body>

<attributes/>

</body>

</icap-response>

## Language Options

The languages available for use should now be determined by a lookup as defined in section 0.

Table 716: SMS Languages options

|  |  |
| --- | --- |
| Description | Code |
| English | ENG |
| Afrikaans | AFR |
| South Ndebele | NBL |
| South Sotho | SOT |
| North Sotho | NSO |
| Swazi | SSW |
| Tsonga | TSO |
| Tswana | TSN |
| Venda | VEN |
| Xhosa | XHO |
| Zulu | ZUL |
| French | FRA |
| German | DEU |
| No Language | DEF |
| Swahili | SWA |

## Transaction Types

Table 717: Transaction Types

|  |  |
| --- | --- |
| Transaction Type | Description |
| Webcsc | All types of Web-csc requests |
| Recharge Voucher | A recharge event on a physical voucher |
| Recharge Internet | A recharge event on an Internet account |
| Recharge Promotion | A recharge event initiated for the promotion |
| USSD Recharge | OLTP USSD recharge event |
| USSD Recharge | OLTP USSD recharge event |
| USSD Recharge | OLTP USSD recharge event |
| USSD Recharge | OLTP USSD recharge event |
| WASP charge | WASP model charge and refund |
| Recharge HD | A Vodacom manual recharge event to add airtime value to customer account |
| Outpayment HD | A Vodacom manual outpayment event |
| SIM swap promotion | New Corporate Top-Up recharge event to be used for SIM replacement packs |
| Online Negative Recharge | Negative recharge for Infotext service |
| Recharge HD | A Helpdesk manual recharge event to add airtime value to a customer account |
| Outpayment Delete | An outpayment event on Deletion |
| Outpayment HD | A Helpdesk manual outpayment event |
| Deduction HD | A Helpdesk manual recharge event to subtract from customer account |
| Outpayment TW | An outpayment event on TWL |
| Unlock IN account | An unlock event on Deletion |
| Unlock IN account | An unlock on the IN account |
| Recharge for Power StarterPack - Money | An initial recharge event for P&D Starter Packs to add **Money** |
| Recharge for Power StarterPack - Airtime | An initial recharge event for P&D Starter Packs to add **Airtime** |
| Lock IN Account | A helpdesk Manual Lock on an IN account |
| Adjust Airtime Window | A helpdesk Manual adjustment of a customer's Time Window - add days |
| Adjust Airtime Window | A helpdesk Manual adjustment of a customer's Time Window - change date |
| Outpayment VtC | Outpayment performed for customers that convert to Contract |
| Recharge and Time Window | Manual Recharge and adjust air-time window - 2 transactions |
| Change IN Balance | Manual set of the customer's IN balance |
| SMS Charge | A recharge event that debits the customer's account |
| Corporate Topup Recharge | Bulk recharges performed by SPs |
| VAS charge | Recharge that debits the customer's account |
| Create IN Account | Create account on the IN for provisioning |
| Add GPRS basic service | To create GPRS service on the HLR |
| Delete GPRS basic service | To delete GPRS service on the HLR |
| Deactivate IN Account | Deactivating IN account before a delete |
| Delete IN Account | Delete IN Account |
| Create On Tandem | Insert the msisdn in TPROVIDon Tandem for Provisioning |
| Delete On Tandem | Delete the msisdn in Tacct on Tandem for customer delete |
| Recharge Voucher | A recharge event on a physical voucher |
| Recharge Voucher | A recharge event on a physical voucher |
| Recharge Voucher | A recharge event on a physical voucher |
| Reserved for Recharge Voucher | A recharge event on a physical voucher |
| Reserved for Recharge Voucher | A recharge event on a physical voucher |
| Reserved for Recharge Voucher | A recharge event on a physical voucher |
| Reserved for Recharge Voucher | A recharge event on a physical voucher |
| Reserved for Recharge Voucher | A recharge event on a physical voucher |
| Reserved for Recharge Voucher | A recharge event on a physical voucher |
| Reserved for Recharge Voucher | A recharge event on a physical voucher |
| Recharge Engineer | An IN manual recharge event to add to customer account |
| Outpayment Engineer | An IN manual outpayment event |
| Lock Engineer | An IN manual Lock event |
| Unlock Engineer | An IN manual unlock event |
| Insert Engineer | An IN manual insert |
| Deactivate Engineer | An IN manual deactivate |
| Activate Engineer | An IN manual activate |
| Delete Engineer | An IN manual delete |
| Time Window Corrections | An IN automated process |
| Reserved | IN Engineer Reserved |
| 4U Recharge | A recharge event on a 4U physical voucher |
| 4U Recharge | A recharge event on a 4U physical voucher |
| 4U Recharge | A recharge event on a 4U physical voucher |
| Reserved 4U Recharge | A recharge event on a 4U physical voucher - Reserved |
| Reserved 4U Recharge | A recharge event on a 4U physical voucher - Reserved |
| Reserved 4U Recharge | A recharge event on a 4U physical voucher - Reserved |
| MMS charge | Negative recharge for MMS |
| MMS charge | Negative recharge for MMS |
| MMS charge | Negative recharge for MMS |
| MMS charge | Negative recharge for MMS |
| Smartstep Recharges | A Smartstep tariff customer Recharge |
| Smartstep Recharges | A Smartstep tariff customer Recharge |
| Smartstep Recharges | A Smartstep tariff customer Recharge |
| Smartstep Recharges | A Smartstep tariff customer Recharge |
| Free Change | Customer administration to change Tariff |
| Free Change | Customer administration to change Tariff |
| Free Change | Customer administration to change Tariff |
| Free Change | Customer administration to change Tariff |
| Available |  |
| Available |  |
| Available |  |
| Available |  |
| Hybrid Recharge Event | Hybrid recurring (monthly) recharge event |
| Hybrid New Connection Event | Hybrid new connection (initial recharge) event |
| Outpayment TW | An outpayment event on TWL |
| MMS charge (DRP site) | Negative recharge for MMS - MMSC DRP site |
| Available |  |
| Lock TW | A lock on IN account event on TWL |
| Unlock | An unlock event |
| Recharge Registered Credit Card (Cointel) | A recharge event via Cointel |
| Electronic Recharge | A recharge event via financial institution |
| Sigi Recharge Electronic | A recharge events from a Sigi User |
| Cointel Dealer Recharge Electronic | A recharge event from a Cointel Dealer |
| Electronic Recharge | A recharge event via financial institution |
| Electronic Recharge | A recharge event via financial institution |
| Electronic Recharge | A recharge event via financial institution |
| Electronic Recharge | A recharge event via financial institution |
| USSD bearer charge | USSD bearer charge and reversal |
| USSD bearer charge | USSD bearer charge and reversal |
| USSD bearer charge | USSD bearer charge and reversal |
| USSD bearer charge | USSD bearer charge and reversal |
| USSD content charge | USSD content charge and reversal |
| USSD content charge | USSD content charge and reversal |
| USSD content charge | USSD content charge and reversal |
| USSD content charge | USSD content charge and reversal |
| SMS roaming charges (DRP) | Negative recharge for SMS roaming |
| SMS roaming charges (DRP) | Negative recharge for SMS roaming |
| SMS roaming charges (DRP) | Negative recharge for SMS roaming |
| SMS roaming charges (DRP) | Negative recharge for SMS roaming |
| Lock TW | A lock on IN account event on TWL for online lock report |
| Lock TW | A lock on IN account event on TWL for online lock report |
| Lock TW | A lock on IN account event on TWL for online lock report |
| Lock TW | A lock on IN account event on TWL for online lock report |
| Lock TW | A lock on IN account event on TWL for online lock report |
| Lock TW | A lock on IN account event on TWL for online lock report |
| Lock TW | A lock on IN account event on TWL for online lock report |
| Get/Set Command | Read/write UDC and SSD counter value |
| General Recharge | A recharge event |
| General Outpayment | An outpayment event |

## Service Providers

Table 718: Service Providers

|  |  |
| --- | --- |
| Service Provider Sequence | Service Provider Name |
| 1 | VSP |
| 2 | FirstCall |
| 3 | Afritel Cellular |
| 4 | Astec Communications |
| 6 | Nashua Ltd |
| 7 | Nedtel Cellular |
| 9 | Teljoy |
| 11 | Vodacom In-House |
| 16 | Vodacom Test |
| 19 | Vodacom Pre-Paid |
| 21 | SuperCall |
| 23 | CellPhones Direct |
| 24 | Autopage Cellular |
| 30 | B-Tel (Bokomoso) |
| 31 | Karabotel |
| 44 | Community Services |
| 64 | Smartcall |
| 65 | Vodacom Equipment Company |
| 85 | Global Telematics |
| 106 | Test SP 1 |
| 108 | Test SP 2 |
| 147 | World OnLine |
| 149 | Smartcom |
| 166 | Twincall MSISDNS |

## Subscriber Attributes

Note: This list can be added to without notice.

The values in this list should be replaced by a lookup as defined in section 0

| Attribute Type ID | Attribute Type Description | Category ID  (or example where fixed list) | Category Description  (or example where fixed list) |
| --- | --- | --- | --- |
| ADC | ADULT CONTENT | 1 | All Ages - i.e. subscriber should not receive adult content |
| CCI | CC indicators | PRB | Problem Subscriber |
| CHILDREN | Number of Children | 0 | None |
| CLV | Customer Lifetime | H | High Value Customer |
| CSS | Call Sponsor | CSN | Call Sponsor Not Allowed |
| CTMTHD | Contact Method | C | Cellphone |
| DEAFSA | Deaf Federation of South Africa | 172 | Eastern Cape DEAFSA |
| ECSECT | Economic Sector | AG | Agriculture, forestry and fishing |
| EDLEVEL | Education Level | L | Less than Grade 10 |
| EMPCAT | Employer Category | G | Government (local, provincial or national) |
| EMPSTAT | Employee Status | EM | Employed |
| IN-COM-T1 | SN: Incoming Comm Text 1 | INCOM-SMS | Incoming SMS msg (to 12580) |
| IN-COM-T2 | SN: Incoming Comm Text 2 | INCOM-SMS | Incoming SMS msg (to 12580) |
| IN-COM-V1 | SN: Incoming Comm Voice 1 | INCOM-IVR | IVR |
| IN-COM-V2 | SN: Incoming Comm Voice 2 | INCOM-IVR | IVR |
| INTHOB | Interests and Hobbies | AR | Art |
| LAN | Language | AFR | Afrikaans |
| LEGAL | Refer subscriber to Legal | Lookup | Lookup |
| MANREG | Manual Registration | MN | Manual Registration |
| MARSTAT | Marital Status | S | Single |
| MESSAGE | Subscriber Special Message | MES01 | Authenticate this customer correctly and proceed with caution. |
| MIN | MINOR | MINOR | Phone used by minor |
| NCPPDSA | National Council for Persons with Physical disabilities in SA | 182 | APD Gauteng North |
| NEEDS | Specific Needs | PDMS | Deteriorating motor skills |
| NEEDS-A | Affiliates | 193 | Albinism Society of South Africa - Multi-Service Organisations |
| OUT-COM-B | SN: Outgoing Comm - Braille | OUTCOM-BRAPOST | Information in braille to subscriber postal address |
| OUT-COM-S | SN: Outgoing Comm: Sign Lang | OUTCOM-VHSPOST | VHS tapes to subscriber postal address |
| OUT-COM-T1 | SN: Outgoing Comm Text 1 | OUTCOM-SMS | SMS message |
| OUT-COM-T2 | SN: Outgoing Comm Text 2 | OUTCOM-SMS | SMS message |
| OUT-COM-V1 | SN: Outgoing Comm Voice 1 | OUTCOM-TAPEAID | Tape Aids for the Blind |
| OUT-COM-V2 | SN: Outgoing Comm Voice 2 | OUTCOM-TAPEAID | Tape Aids for the Blind |
| PRDINF | Send Product Information | PI | Send Product Information |
| RELIGION | Religion | Lookup | Lookup |
| SANCB | SA National Council for the Blind | 163 | Eastern Cape Provincial Council for the Blind |
| SG | Social Grant | Y | Yes |
| SMS | SMS Indicators | SNO | No SMS Notification |
| SNOCB | No SMS Notification For Content Billed |
| SPORTS | Sports | AT | Athletics |
| SUB | Subscriber Attribute | VODAFASTA | Vodafasta |
| TERINST | Tertiary Institution | OT | Other |
| VCRP | VCRP | ONX | Onyx |
| VCRPSPCL | VCRP SP Claim Inidicators | CLIP | CLIP Costs can be claimed from Vodacom |
| NOT | Notifications | RTSNOT | Inhibitor |
| WASP\_BLOCK | WASP Content Block Category | Y | WASP Content Blocked |

## Prepaid Starter Pack Offer ID’s

Note: This list can be added to without notice.

|  |  |
| --- | --- |
| Offer ID | Offer ID Description |
| SSS | Super 6 Starter Pack |
| SP | Vodago Starter Pack |
| PSP | Power Starter Pack 1 |
| PSP2 | Power Starter Pack 2 |
| DSP | Data Starter Pack |
| PLUS | Smartstep Starter Pack |
| 4UP | 4U Starter Pack |
| SIGI | IN Sigi |
| CSTO | CSTO Management |
| SPR | IN Sigi Pro |
| SS4U | Super 6 4U Starter Pack |
| SS4S | Super 6 4U Special Starter Pack |

## Action & ID Types

As used in the service action list.

Actions types are id’s for the action to be taken on each service offering within a service offering administration function:

|  |  |
| --- | --- |
| Action Type | Action Taken |
| CRE | Create service offering on request on existing offer OR  Create service offering on new offer when migrating the offer & service offerings. |
| DEL | Delete service offering on existing offer OR  Do not create service offering on new offer, if migrating offer. |
| MSO | Migration of service offering onto new service offering ID on existing offer, e.g. Vodamemo 200 to Vodamemo 500 OR  Standard SMS to Standard SMS where SMS should be carried over onto the new offer when migrating the offer. |
| CID | Change service identifier e.g. to manage an IP address change |

ID types:

|  |  |
| --- | --- |
| Identifier | Description |
| A | Mailbox Alias |
| B | Business Registration No. |
| C | ICC-ID |
| E | SP ID |
| F | IP Address |
| G | SMS Agent |
| I | MSIN |
| K | User Key (e.g. non GSM offer Vodanet DRC username) |
| M | MSISDN |
| N | ID Number |
| P | Passport No |
| Q | ICAP ID |
| R | APN No |
| S | IMSI |
| T | Twincall MSISDN |
| U | UMS ID |
| X | Mailbox No |
| W | Number of copies |
| Z | Student Number |
| # | Graduation Year |
| 0 | Item Sequence |
| 5 | Registration Number |
| 6 | Chassis Number |
| 7 | Engine Number |
| 8 | VIN Number |
| 9 | Fleet Number |

|  |  |
| --- | --- |
| SERVICE TYPE | IDENTIFIER TO BE SUPPLIED |
| T11 – TELEPHONY | M |
| T22 – SMS MO | M |
| B26 – DATA | M |
| T62 – FAX | M |
| TWC – Twincall | C (of secondary SIM) |
| GPR – GPRS | M (will inherit from Telephony identifier if there is one) |
| G00 – APN’s | F for APN’s with static IP address management |
| S11 – CLIP | C |
| S12 – CLIR | C |
| S52 – Conference Call | C |
| EMP – Executive Mailbox Plus | C |

|  |  |  |
| --- | --- | --- |
| IDENTIFIER TYPES | | FORMAT |
| A | Mailbox alias – slave mailbox number on primary mailbox for Twincall subscribers | 270XXYY000ZZZZZ where XX = NDC 82 or 72, YY = HLR range, ZZZZZ = number range from 00021 to 99999 |
| B | Business registration number – registration number is allocated when business is registered with the Registrar of Companies | Closed Corporations: e.g. CK/123456  Companies: e.g. 83/14052/07 |
| C | ICCID (20 char) – can be primary or secondary SIM for twincall subscribers  Can also be SMARTCARD for DSTV Subscribers if specified as an optional Identifier | 89YYXZZZZZZZZZZZZZA where YY = HLR range, X = NDC – 0 for 082 and 1 for 072, X codes for MNP - MTN (3), CellC (4). ZZZZZZZZZZZZZ = variable number and A = check digit  Examples of SMARTCARD ICCID is 4001414010 |
| E | SP Subscriber ID - must be unique to subscriber & Service Provider (15 char) | Alphanumeric – depends on Service Provider |
| F | IP Address | Nnn.nnn.nnn.nnn e.g. 001.001.001.001 - IP address as used for APN’s that are managed with static IP addresses. |
| G | SMS Agent | ICAP user sequence of agent registered |
| I | MSIN (10 char) | YYZZZZZZZZ = where YY = HLR Range and ZZZZZZZZ = variable number |
| M | MSISDN E.164 Format (15 char) | 270XXYY000ZZZZZ where XX = NDC 82 or 72, YY = HLR range, ZZZZZ = number range from 00021 to 99999 |
| N | ID Number (South African ID’s only, 13 char) | As per ID number e.g. 6001010101010 |
| P | Passport number (20 char) | As per passport number |
| Q | ICAP ID (10 char) | As internally generated by iCAP when subscriber is created |
| R | APN Number | Not applicable |
| S | IMSI (15 char) | 65501YYZZZZZZZZ = where YY = HLR Range and ZZZZZZZZ = variable number |
| U | UMS id |  |
| T | Twincall MSISDN E.164 Format (15 char) | 270XXYY000ZZZZZ where XX = NDC 82 or 72, YY = HLR range, ZZZZZ = number range from 00021 to 99999 |
| X | Mailbox Number (15 char) | 270XXYY000ZZZZZ where XX = NDC 82 or 72, YY = HLR range, ZZZZZ = number range from 00021 to 99999 |

## Call Routing Flag Definition.

The Call routing flags shall be formatted as a string with the format as indicated in Table 719.

Table 719: Call Routing Flag Layout

| Indicator Description | Indicator Length | Values | |
| --- | --- | --- | --- |
| VCRP Category | 1 | O = Onyx  P = Platinum  0 = not used | |
| VCRP Sub Category | 1 | I = Individual  V = VIP  C = Corporate  0 = not used | |
| VIP Subscriber | 1 | V = VIP subscriber  0 = not used | |
| PINPUK Restricted | 1 | ‘Y’ = Yes  any other value = No | |
| Influential | 1 | I = Influential Subscriber  0 = not used | |
| International Roamer | 1 | R = International Roamer Subscriber  0 = not used | |
| Subscriber Type | 1 | P = Prepaid  C = Contract  H = Hybrid  0 = not used | |
| CLV Value | 1 | A = “Too Early to Assess”;  I = “Inactive”;  G = “Ultra Low Value”;  O = “Low Value”;  P = “Medium Value”;  Q = “High Value”;  S = “Very High Value”;  T = “Ultra High Value”;  X = “Extra High Value”  V = “Very Low”  L = “Low”  M = “Medium”  H = “High” | |
| Language | 3 | See Table 716 for the language codes available.  “DEF“ = not used | |
| Twincall Subscriber | 1 | M = Master  S = Slave  N = None  0 = not used | |
| Service Provider | 3 | See section 5.5 for SP sequence numbers. The number shall be right justified, zero-filled.  “000” indicates not used | |
| Subscriber Status | 1 | C = Active  D = Deleted  0 = not used | |
| New Subscriber | 1 | 2 = Yes  1 = No  0 = not used | |
| Prepaid Subscriber Registration Flag – Legal | 1 | Y = Registered  N = Not Registered  P = Deregister Pending  D = Deregistered | |
| CCI 1 | 1 | 1 = VIP  2 = HVC  0 = not used | |
| CCI 2 | 1 | 1 = Vodafone Simply Subscriber  0 = not used | |
| CCI 3 | 1 | 1 = Yebo Bundle Gold Card  0 = not used | |
| CCI 4 | 1 | 1= No Do not send an SMS  0 = Yes Send and SMS | |
| CCI 5 | 1 | 0 = None  1= Trade Partner  2 = True Repeat Caller  3 = Abusive Caller  4 = Silent Caller  5 = Nuisance Caller  6 = Exempt | |
| CCI 6 | 1 | 1 = Special Service  0 = not used | |
| CCI 7 | 1 | Defined Open SRs  0 = no routing  1 = PREPAID  2 = DATA  3 = VAS  4 = NETWORK  5 = ADVANCED DATA SUPPORT  6 = CONTRACT ADMIN  7 = ADS ACCOUNTS 8 = CONTRACT BILLING | |
| CCI 8 | 1 | B = BUSINESS  C = CONSUMER  O = OTHER  Z = ERROR (a classification other than B, C or O was encountered) | |
| CCI 9 | 1 | **CCI value** | **Mapping** |
| U | RC0 Unassigned |
| I | RC1 Integrated |
| E | RC2 Voice and Messaging |
| F | RC3 Voice and Data |
| A | RC4 Voice and Access only |
| M | RC5 Messaging only |
| D | RC6 Data / Mobile broadband |
| V | RC7 Variable |
| P | RC8 Prepaid |
| O | RC9 Other Data |
| T | RC10 Telemetry |
| CCI 10 | 1 | Pending SIM Swap flag  Y = SIM is currently used in a pending SIM Swap  0 = not used/no pending SIM swap for this SIM | |
| IVR PINPUK Restricted | 1 | ‘Y’ = Yes  any other value = No | |
| Tenure | 1 | The Tenure value calculation are described in [23]  0; 1; 2; 3; 4; 5; 6; 7; 8; 9; | |
| SIM Swap Count | 1 | <count>  The number of SIM Swaps as indicated by the SSW\_COUNT Subscriber Attribute (See VCFS-1098) | |

**Examples:**

0000IRC0ENG0000C1N100000000000 = *Influential, Roamer, Contract, English, No Twincall, Active, Old Subscriber, Not Registered,VIP, Tenure*

PIV00RCMENGM001C2N000000000000 = *Platinum, Individual, VIP, Roamer, Contract, Medium CLV, Twincall Master English, VSP, Active, New Subscriber, 0*

## Attribute Flags

The attribute flags shall be formatted as in

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Description | Indicator Length | Values | Flag Position |
| REGISTERED VBS | 1 | Y –Registered  N – Not registered | 3 |
| OPT OUT VBS | 1 | Y – Opted Out  N – Opted In | 4 |
| VALIDATED VBS | 1 | Y – Validation VBS Success  N – Not VBS Validated | 5 |

## Available Prepaid APN’s

The following are the available APN’s:

|  |  |  |
| --- | --- | --- |
| APN Service ID | APN | APN Description |
| A10 | Internet | The Internet APN |
| A29 | Vlive | Vlive APN |
| A37 | InternetVPN | InternetVPN APN |

## Hosting APN – This APN is no longer available via the HighSpeed

## Account Numbers for Prepaid Provisioning

The following are the Account numbers for Prepaid provisioning:

|  |  |  |  |
| --- | --- | --- | --- |
| Offer Id | SP Sequence | Service Type ID | Account Number |
| 4UP | 3 | Afritel 4U SP | 12140 |
| 4UP | 4 | Astec-Plessey 4U SP | 12141 |
| 4UP | 24 | Autopage 4U SP | 12142 |
| 4UP | 23 | Cellphones Direct 4U SP | 12148 |
| 4UP | 2 | First Call 4U SP | 12129 |
| 4UP | 85 | Global Telematics 4U SP | 16138 |
| 4UP | 5 | GSM Direct 4U SP | 12137 |
| 4UP | 6 | Nashua 4U SP | 12144 |
| 4UP | 7 | Nedtel 4U SP | 12143 |
| 4UP | 8 | Radiospoor 4U SP | 12145 |
| 4UP | 64 | Smartcall 4U SP | 14616 |
| 4UP | 149 | Smartcom 4UPP | 14616 |
| 4UP | 21 | Supercall 4U SP | 12146 |
| 4UP | 9 | Teljoy 4U SP | 12130 |
| 4UP | 106 | Test 1 4U SP | 18215 |
| 4UP | 108 | Test 2 4U SP | 12131 |
| 4UP | 65 | VEC 4U SP | 16016 |
| 4UP | 1 | Vodac 4U SP | 12131 |
| 4UP | 11 | Vodacom ISP 4U SP | 12149 |
| 4UP | 147 | World OnLine 4U SP | 18220 |
| CSTO | 44 | CSTO Management SIM | 13392 |
| DSP | 24 | Autopage DSP | 12142 |
| DSP | 85 | Global Telematics DSP | 16138 |
| DSP | 8 | Radiospoor DSP | 12145 |
| DSP | 64 | Smartphones DSP | 14616 |
| DSP | 1 | Vodac DSP | 12131 |
| DSP | 11 | Vodacom ISP DSP | 12149 |
| DSP | 147 | World OnLine DSP | 18220 |
| PSP | 3 | Afritel PSP | 12140 |
| PSP | 24 | Autopage PSP | 12142 |
| PSP | 23 | Cellphones PSP | 12148 |
| PSP | 2 | First Call PSP | 12129 |
| PSP | 85 | Global Telematics PSP | 16138 |
| PSP | 5 | GSM PSP | 12137 |
| PSP | 6 | Nashua PSP | 12144 |
| PSP | 7 | Nedtel PSP | 12143 |
| PSP | 4 | Plessey PSP | 12141 |
| PSP | 8 | Radiospoor PSP | 12145 |
| PSP | 64 | Smartphones PSP | 14616 |
| PSP | 21 | SuperCall PSP | 12146 |
| PSP | 9 | Teljoy PSP | 12130 |
| PSP | 106 | Test 1 PSP | 18215 |
| PSP | 108 | Test 2 PSP | 12131 |
| PSP | 65 | VEC PSP | 16016 |
| PSP | 1 | Vodac PSP | 12131 |
| PSP | 11 | Vodacom ISP PSP | 12149 |
| PSP | 147 | World OnLine PSP | 18220 |
| PSP2 | 3 | Afritel PSP V2 | 12140 |
| PSP2 | 24 | Autopage PSP V2 | 12142 |
| PSP2 | 23 | Cellphones PSP V2 | 12148 |
| PSP2 | 2 | First Call PSP V2 | 12129 |
| PSP2 | 85 | Global Telematics PSP V2 | 16138 |
| PSP2 | 5 | GSM PSP V2 | 12137 |
| PSP2 | 6 | Nashua PSP V2 | 12144 |
| PSP2 | 7 | Nedtel PSP V2 | 12143 |
| PSP2 | 4 | Plessey PSP V2 | 12141 |
| PSP2 | 8 | Radiospoor PSP V2 | 12145 |
| PSP2 | 64 | Smartphones PSP V2 | 14616 |
| PSP2 | 21 | SuperCall PSP V2 | 12146 |
| PSP2 | 9 | Teljoy PSP V2 | 12130 |
| PSP2 | 106 | Test 1 PSP V2 | 18215 |
| PSP2 | 108 | Test 2 PSP V2 | 12131 |
| PSP2 | 65 | VEC PSP V2 | 16016 |
| PSP2 | 1 | Vodac PSP V2 | 12131 |
| PSP2 | 11 | Vodacom ISP PSP V2 | 12149 |
| PSP2 | 147 | World OnLine PSP V2 | 18220 |
| SP | 3 | Afritel SP | 12140 |
| SP | 24 | Autopage SP | 12142 |
| SP | 23 | Cellphones SP | 12148 |
| SP | 2 | First Call SP | 12129 |
| SP | 85 | Global Telematics SP | 16138 |
| SP | 5 | GSM SP | 12137 |
| SP | 6 | Nashua SP | 12144 |
| SP | 7 | Nedtel SP | 12143 |
| SP | 4 | Plessey SP | 12141 |
| SP | 8 | Radiospoor SP | 12145 |
| SP | 149 | Smartcom VOG | 14616 |
| SP | 64 | Smartphones SP | 14616 |
| SP | 21 | SuperCall SP | 12146 |
| SP | 9 | Teljoy SP | 12130 |
| SP | 106 | Test 1 SP | 18215 |
| SP | 108 | Test 2 SP | 12131 |
| SP | 65 | VEC SP | 16016 |
| SP | 1 | Vodac SP | 12131 |
| SP | 11 | Vodacom ISP SP | 12149 |
| SP | 16 | Vodacom Test SP | 10123 |
| SP | 147 | World OnLine SP | 18220 |
| SPR | 44 | IN Sigi | 13392 |
| SS4U | 3 | Afritel 4U SS | 12140 |
| SS4U | 4 | Astec-Plessey 4U SS | 12141 |
| SS4U | 24 | Autopage 4U SS | 12142 |
| SS4U | 23 | Cellphones Direct 4U SS | 12148 |
| SS4U | 2 | First Call 4U SS | 12129 |
| SS4U | 85 | Global Telematics 4U SS | 16138 |
| SS4U | 5 | GSM Direct 4U SS | 12137 |
| SS4U | 6 | Nashua 4U SS | 12144 |
| SS4U | 7 | Nedtel 4U SS | 12143 |
| SS4U | 8 | Radiospoor 4U SS | 12145 |
| SS4U | 64 | Smartcall 4U SS | 14616 |
| SS4U | 149 | Smartcom 4U SS | 14616 |
| SS4U | 21 | Supercall 4U SS | 12146 |
| SS4U | 9 | Teljoy 4U SS | 12130 |
| SS4U | 106 | Test 1 4U SS | 18215 |
| SS4U | 108 | Test 2 4U SS | 12131 |
| SS4U | 65 | VEC 4U SS | 16016 |
| SS4U | 1 | Vodac 4U SS | 12131 |
| SS4U | 11 | Vodacom ISP 4U SS | 12149 |
| SS4U | 147 | World OnLine 4U SS | 18220 |
| SSS | 24 | Autopage SSS | 12142 |
| SSS | 85 | Global Telematics SSS | 16138 |
| SSS | 7 | Nedtel SSS | 12143 |
| SSS | 8 | Radiospoor SSS | 12145 |
| SSS | 64 | Smartcall SSS | 14616 |
| SSS | 21 | Supercall SSS | 12146 |
| SSS | 106 | Test 1 SSS | 18215 |
| SSS | 108 | Test 2 SSS | 12131 |
| SSS | 1 | Vodac SSS | 12131 |
| SSS | 11 | Vodacom ISP SSS | 12149 |
| SSS | 147 | World OnLine SSS | 18220 |
| TEST | 44 | IN Sigi Test | 13392 |

## Error Code Mapping

The HighSpeed Manager shall return the following error codes types as indicated in Table 720. Please refer to [8] for more information on the Error code handling for the HighSpeed manager.

Table 720: Error Codes for the HighSpeed Manager

|  |  |  |  |
| --- | --- | --- | --- |
| Group | Error Code – Current | Error Code – Proposed | Error Description |
| **Application** | As received from external systems | As received from external systems | Application errors as returned by the iCAP application that the HighSpeed manager interfaces to should be returned in the code and description fields of the exception object.  See reference [4] for errors from the iCAP database. |
| 000 | 000 | No Error Code – Error message as received from external systems |
| 001 | 001 | Error message as supplied by the application |
| 002 | 002 | Error message as supplied by the interface error exception |
| 002 | 003 | User expired / Your security key timed out, please log on again |
| 003 | 004 | You supplied an invalid MSISDN or ICCID |
| 003 | 005 | Invalid User |
| 004 | 006 | Invalid Password |
| 005 | 007 | Password Expired |
| 006 | 008 | Password Used Previously |
| 007 | 009 | User Account Locked |
| 008 | 010 | Unknown Security Error/ COULD NOT CREATE SECURITY SESSION |
| 009 | 011 | Error while trying to get User List security server |
| 009 | 012 | Error while trying to log on to security server / Error Executing Security Server Logon |
| 010 | 013 | Error Executing Security Server Get Function List |
| 011 | 014 | Error Executing Security Server Get SpCode List |
| 012 | 015 | No Authority to perform this function |
| 1 | 016 | Unknown error |
| 019 | 019 | User not logged on, or incorrect user/security key |
| 2 | 022 | Ex.errorMsg – could be any error message as returned by an external system |
| 2 | 023 | Invalid function selector type |
|  | 024 | No SUB ID found in the parameter list |
|  | 025 | Invalid Subscriber Id Type |
|  | 026 | No SUB ID TYPE found in the parameter list |
| 1 | 027 | CORBA SYSTEM EXCEPTION FROM QUERY SERVER |
| 1 | 028 | Invalid Subscriber Id length |
|  | 029 | SERVICE\_TYPE not found in the parameter list |
|  | 030 | No MSISDN found in the parameter list |
| 1 | 031 | CORBA SYSTEM EXCEPTION FROM DATABASE QUERY |
| 1 | 032 | No ORIGIN ID found in the parameter list |
|  | 033 | No PACKAGE ID found in the parameter list |
|  | 036 | No PIN found in the parameter list |
|  | 037 | Invalid PIN |
|  | 038 | This function is not possible for Prepaid subscribers, please call Vodacom's customer care |
|  | 039 | This function is not possible for Twincall subscribers, please call Vodacom's Customer Care |
|  | 040 | No APN\_SRV\_ID found in the parameter list |
|  | 041 | No SPONSOR\_MSISDN found in the parameter list |
|  | 042 | No SPONSORED\_MSISDN found in the parameter list |
|  | 043 | No PROG\_NUMBER found in the parameter list |
|  | 044 | No CURRENT SO ID found in the parameter list |
|  | 045 | No ACTION TYPE found in the parameter list |
|  | 046 | No CONTENT\_TYPE found in the parameter list |
|  | 047 | No RECIPIENT\_NAME found in the parameter list |
|  | 048 | No DELIVERY\_CHANNEL found in the parameter list |
|  | 049 | No DESTINATION found in the parameter list |
|  | 050 | A numeric FAX number is required |
|  | 051 | No EMAIL found in the parameter list |
|  | 052 | Parameter <param name> violates validation rules |
|  | 053 | The function is not permitted according to the QCLVAS DISPLAY parameters |
|  | 054 | Invalid session, please log on again. |
|  | 055 | Failed to create session store. |
|  | 056 | Failed to create highspeed database. |
|  | 057 | Failed to create value lookup store. |
|  | 058 | Server reference not configured. |
|  | 059 | Locator port or locator host not configured. |
|  | 060 | Failed to connect to remote server. |
|  | 061 | Invalid security inputs, please retry or log on again. |
|  | 062 | Failed to call method on remote service |
|  | 063 | No IMEI found in the parameter list |
|  | 064 | Invalid IMEI |
|  | 065 | Invalid IMEI length |
|  | 066 | Invalid SERVICE\_TYPE |
|  | 067 | This function is only possible for Contract subscribers |
|  | 068 | Invalid lookup request type |
|  | 069 | No Service Type found for Request Type |
|  | 070 | This function is only possible for PrePaid subscribers |
|  | 071 | Invalid Action (ie should be CREATE or DELETE) |
|  | 072 | Already provisioned |
|  | 073 | Invalid telephony msisdn |
|  | 074 | Subscriber is not multi or single numbering |
|  | 075 | Subscriber not a starter pack |
|  | 076 | Invalid Adult Content Indicator |
|  | 077 | Subscriber must register with first |
|  | 078 | Adult content indicator already exits |
|  | 079 | Invalid Phone Used By Minor Indicator |
|  | 080 | SIM is not WIG enabled |
|  | 081 | Invalid starter pack reference |
|  | 082 | Not an activation agent |
|  | 083 | Invalid CURRENT\_SO\_ID |
|  | 084 | Mailbox already exits |
|  | 085 | Invalid ICCID length |
|  | 086 | Invalid IMSI length |
|  | 087 | Failed to remove session |
|  | 088 | No REQUEST SEQ in Request Result List |
|  | 090 | Subscriber does not have a Call Sponsor Service. |
|  | SUB\_NOT\_HAVE\_ROM\_SERVICE | 091 | Subscriber does not have a Roaming Service. |
| INVALID\_SUB\_TYPE | 092 | Invalid subscriber type. |
| SUB\_NOT\_HAVE\_VPR\_SERVICE | 093 | Subscriber does not have a VRP Roaming Service |
| FUNCTION\_NOT\_PERMITTED | 094 | Function is not permitted according to QCLVAS DISPLAY parameters |
| INVALID\_NUM\_DAYS | 095 | Invalid number of days - only 30, 60 or 90 are allowed |
| INVALID\_NDC | 096 | Invalid NDC |
| MINOR\_IND\_ALREADY\_EXISTS | 097 | Current Minor indicator already set to 'MINOR' |
| EXISTING\_VALUE\_UNEQUAL\_INPUT | 098 | Input value for <attribute> not equal to existing value |
| INVALID\_ROLE\_TYPE\_LENGTH | 099 | Invalid Role Type length |
| ID\_VERIFIED\_FAILED | 100 | ID Number verification failed |
| INVALID\_APN | 101 | Invalid APN |
| INVALID\_SERVICE\_ID | 102 | Invalid Service Id |
| INVALID\_ORIGIN\_ID | 103 | Invalid Origin Id |
| INVALID\_AGENT\_ID | 104 | Invalid Agent Id |
| INVALID\_AGENT\_NAME\_PREFIX | 105 | Invalid Agent Name Prefix |
| SUB\_ALREADY\_REGISTERED | 106 | Subscriber is already registered |
| PASSWORD\_PALINDROME | 107 | Password is a palindrome |
| PASSWORD\_CONTAINSUSERNAME | 108 | Password contains username |
| PASSWORD\_EASYTOGUESS | 109 | Password easy to guess |
| USER\_INACTIVITY\_EXPIRED | 110 | User inactivity expired |
| SUB\_NOT\_HAVE\_GPRS\_SERVICE | 113 | Subscriber does not have a GPRS service |
| SUB\_NOT\_ALREADY\_REGISTERED | 112 | Subscriber not registered |
| FUNCTION\_NOT\_FOR\_POSTPAID | 113 | This function is not possible for Postpaid subscribers, please call Vodacom's customer care |
| FUNCTION\_NOT\_FOR\_HYBRID | 114 | This function is not possible for Hybrids subscribers, please call Vodacom's customer care |
| INVALID\_PUK | 115 | Missing or invalid PUK number |
| INVALID\_DOMAIN\_CREDENTIALS | 116 | Invalid credentials for logon via domain authentication |
| DOMAIN\_ACCOUNT\_LOCKED | 117 | Account locked for logon via domain authentication |
| REGISTRATION\_FAILED\_NAMES | 118 | Subscriber Registration - Name attributes required (First name, Initial, surname) |
| REGISTRATION\_FAILED\_THRESHOLD | 119 | Subscriber Registration - ID Number reuse threshold reached |
| INVALID\_MPESA\_CUSTOMER | 120 | Invalid MPESA Customer (DRC) |
| INVALID\_CUSTOMER\_AGE | 121 | Invalid Customer Age for G2 registration (DRC) |
| CUSTOMER\_NOT\_LEGAL\_REGISTERED | 122 | Customer not legal registered (DRC) |
| G2\_APPLICATION\_ERROR | 123 | Invalid Customer Age for G2 registration (DRC) |
| SECRET\_EXISTS | 124 | A secret question/answer has already been set for Subscriber Self help pin |
| ANSWER\_INVALID | 125 | The secret answer provided is incorrect for Subscriber Self help pin change |
| PIN\_SETUP\_REQD | 126 | The secret question/answer has not been setup |
| PINCHG\_INVALID\_PIN | 127 | Pin should be 4 digits and value 0000 is not allowed |
| PINCHG\_PIN\_NOT\_MATCH | 128 | Old pin supplied did not match existing pin |
| PINRST\_PIN\_NOT\_SET | 129 | Subscriber PIN not set |
| SIMCC2 | 130 | No pending SIM swap request exists |
| LMSACN | 131 | No Lay By Service found for this Subscriber and Product Code. |
| SIMCHV | 132 | Sim Swap cannot be performed on VDE subscriber |
| ACTRGL | 150 | ID has been Blacklisted due to SIMBOX activity |
| **Database** | As received from external systems | As received from external systems | These are typically Oracle Errors. The Oracle errors can be investigated from the Oracle System Documentation provided by the Oracle Corp. Typical examples of Database errors (in the iCAP system) are the following:  - ORA-00936: Missing Expression.  - ORA-00942: table or view does not exist. |
| 0 | 000 | No Error Code – Error message as received from external systems |
| **No Data** | 001 | 001 | “No Data” or as received from the external System  A code of 1 shall be returned for all errors where no data was returned for a query to the data or a business server e.g. the Geneva manager for a Bundles query view.  The error message shall be as received from the external system. The error message may indicate either that no data was found, or a more specific reason why not data was found e.g. Invalid MSISDN for the external system query |
| **System** | As received from external systems, or generated internally | As received from external systems, or generated internally | System Group errors are be generated by the HighSpeed manager, and the HighSpeed manager shall either assign a code to these errors or use the error code received by the external system. |
| 0 | 000 | No Error Code / Unknown Exception / End -- With Unknown Exception |
| 1 | 001 | Unable to connect to service |
| Communication | -1 = Corba Timeout  -2 = Corba Communications failure  Or as received from external systems, or generated internally | 001 = Corba Timeout  002 = Corba Communications failure  Or as received from external systems, or generated internally | Communications Group errors are be generated by the HighSpeed manager, and the HighSpeed manager shall assign a code to these errors or use the error code received by the external system. |
| 0 | 000 | No Error Code – Error message as received from external systems |
| CANNOT\_CONNECT | 003 | Cannot connect to remote server |

## Requesting Parties

| Code | Description |
| --- | --- |
| CUS | Customer |
| SPV | Service Provider |
| DEA | Dealer |
| CCA | Customer Care |
| OTH | Other |
| VOP | Vodacom Operations |
| SPN | Sponsor |
| SPD | Sponsored |
| BSD | BSD |
| CRM | CRM |

## iCAP Reasons

|  |  |  |
| --- | --- | --- |
| **Function Selector** | **Code** | **Description** |
| REDPLP | CUS | Customer Request |
| ADJPLP | ERR | Error Correction |
| ADJPLP | PRO | CRM/Marketing Promotion |
| ADJPLP | REG | Initial Customer Registration |
| ADJPLP | UPD | Customer Registration Update |
| ADJPLP | COM | Compensation |
| ADJPLP | COR | Error Correction |
| ADJPLP | FRD | Fraud |
| ADJPLP | OTH | Other |
|  |  |  |
| LCKADM/LCKCCL | CCL | Credit limit reached/soft lock |
| LCKADM/LCKCCL | COC | Cancellation of contract |
| LCKADM/LCKCCL | EOC | End of contract |
| LCKADM/LCKCCL | LAP | Lock for administration purposes |
| LCKADM/LCKCCL | LCR | Customer Request |
| LCKADM/LCKCCL | LIV | Investigation |
| LCKADM/LCKCCL | LNR | Lock for active but non registered subs |
| LCKADM/LCKCCL | LSS | Sim stolen |
| LCKADM/LCKCCL | LVS | Lock for valid SIM cards |
| LCKADM/LCKCCL | NLS | Not selected |
| LCKADM/LCKCCL | PSL | Phone stolen |
| LCKCCL | BIR | Bar International Roaming |
|  |  |  |
| UNLADM/UNLCCL | RPE | REINSTATE PORTED SERVICE |
| UNLADM/UNLCCL | RPS | Reinstate Ported Service |
| UNLADM/UNLCCL | UCR | Customer Request |
| UNLADM/UNLCCL | UPR | Phone recovered |
| UNLADM/UNLCCL | URS | Remove of soft lock |
| UNLADM/UNLCCL | USR | Sim recovered |
| UNLCCL | RIR | Restore International Roaming |
|  |  |  |
| REVPLH | OTH | Other |
| REVPLH | FLT | Handset Issue/Fault |
| REVPLH | ERR | Error Correction |
| REVPLH | CUS | Customer Request |

## Role Types

|  |  |
| --- | --- |
| Role Type ID | Role Type Id Description |
| S | Subscriber Role |
| L | Legal Registration Role |
| A | Activation Agent |
| O | Organisation |
| Y | Prepaid Loyalty Subscriber |
| C | Subscriber Contacts |

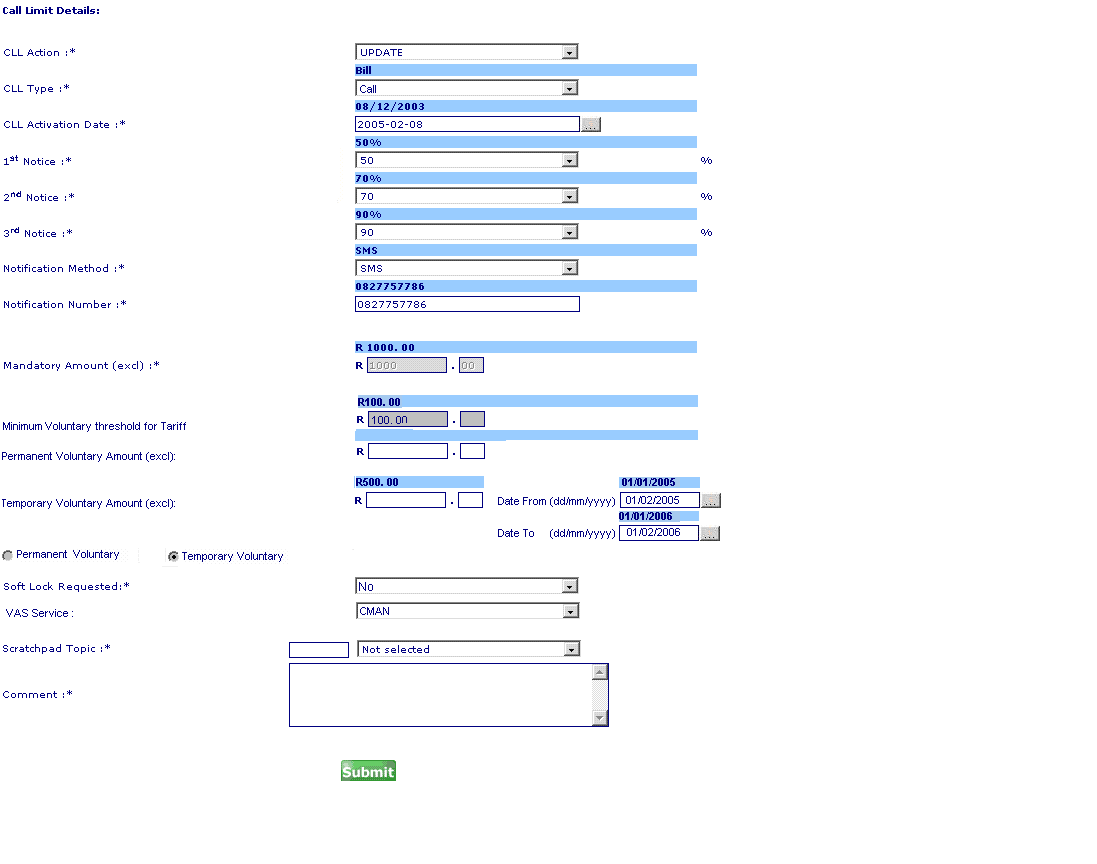
Call Limit Lock Recommended GUI actions and parameter mappings

This section details the recommended use of the parameters used in the Call Limit Lock functionality.

## General Presentation features.

The following format shall be used for the Call Limit locking feature as indicated in the example Figure 3 below.

Figure 3: Call Limit Locking Screen Layout.



Information from the query QCLVAS will be used to pre-populate values in the CLL screen.

The following display rules shall be followed in addition to the rules indicated in section 5.15:

* Mandatory value:

The mandatory field value shall be grayed out, and shall not be editable at any time.

If the amount of the mandatory value is = -1, no value shall appear in the mandatory display field, and the words ‘Not Applicable’ shall appear immediately to the right of the mandatory display field.

Any other value in the mandatory amount will be displayed as returned from the Eppix query

The current Mandatory limit value shall be used in actions where the mandatory amount is required.

* Voluntary value:

The voluntary value shall be editable for the appropriate actions.

If the voluntary value received from Eppix is = -1, no value should appear in the voluntary data field i.e. a blank field.

Any other value in the voluntary amount will be displayed as returned from the Eppix query

If there is a mandatory value i.e. the mandatory value is not equal to –1, the entered voluntary value shall be less or equal to than the mandatory value. The following error message must be returned:

Voluntary call limit (Permanent and/orTemporary) not allowed to be more than mandatory amount. Mandatory amount is <MAN\_AMOUNT>

The VL amount cannot be less than the package amount. The package amount is a low limit set for that package. Package amount will always be greater than 0. The following error message must be returned:

Voluntary call limit (Permanent and/orTemporary) not allowed to be less than minimum threshold. Minimum threshold is <MIN\_AMOUNT\_PER\_PACKAGE>

If there is no applicable mandatory value, the voluntary value can be any value, greater than 0.

* Temporary Voluntary (TVL) amount:

A TVL may only be added if a voluntary amount is present.

A TVL may not be changed – it can only be deleted

The same error message as for VL will be used.

#### CLL Action List

The CLL Action list shall be determined by the actions available in the ‘DISPLAY\_…’ parameters in the QRY-CLLVAS query. The action shall be allowed if the value of the parameter = TRUE.

The action Delete Mandatory Amount will not be allowed on the non-supervisors function.

The action Delete CLL Values will not be allowed on the non-supervisors function if the mandatory call limit has an amount.

Table 721 - Display Attribute CLL Actions

|  |  |
| --- | --- |
| Parameter name | Action allowed if parameter value = ‘True’ |
| DISPLAY\_DELETE\_MANDATORY\_AMOUNT | Delete Mandatory Amount |
| DISPLAY\_ADD\_RECORD | Add CLL Values |
| DISPLAY\_DELETE\_RECORD | Delete CLL Values |
| DISPLAY\_UPDATE\_RECORD | Update CLL Values |
| DISPLAY\_ADD\_TEMP\_LIMIT | Add Temporary Voluntary Limit |
| DISPLAY\_DELETE\_TEMP\_LIMIT | Delete Temporary Voluntary Limit |
| DISPLAY\_DELETE\_VOL\_AMOUNT | Delete Voluntary Limit |

#### Call Limit Update Screen

If the value in RECORD\_ACTIVE in query QRY-CLLVAS query equals NOT ACTIVE then the subscriber does not have any call limits in effect and the screen will not be pre-populated with any values. If the value in RECORD\_ACTIVE in the QRY-CLLVAS query is ACTIVE then the CLL screen will be pre-populated as follows:

Table 722 - Call Limit Update Screen Input

|  |  |  |
| --- | --- | --- |
| Morpheus CLL Screen Label | Record Active  Populated from: | Record Not Active  Populated from: |
| CLL Action | Display attributes  See Table 721 | Display attributes  See Table 721 |
| CLL Type | Default to Call (not passed to EPPIX just information) | Default to Call (not passed to EPPIX just information) |
| CLL Activation Date | ACTIVATION\_DATE | blank |
| 1st Notice | FIRST\_NOTICE | blank |
| 2nd Notice | SECOND\_NOTICE | blank |
| 3rd Notice | THIRD\_NOTICE | blank |
| Notification Method | NOTIFY\_METHOD  Values: S – SMS, E – Email, F – Fax | blank |
| Notification Number | NOTIFY\_VALUE | blank |
| Mandatory Amount | MAN\_AMOUNT  If = -1 no value shall appear in the mandatory display field, and the words ‘Not Applicable’ shall appear immediately to the right | ‘Not Applicable’ |
| Minimum Voluntary threshold for tariff | MIN\_AMOUNT\_PER\_PACKAGE  Always not editable | MIN\_AMOUNT\_PER\_PACKAGE  Always not editable |
| Permanent Voluntary Amount | See detail below | blank |
| Temporary Voluntary Amount | See detail below | blank |
| Date From | TEMP\_ACTIVE\_FROM if there is a value for Temporary Voluntary Amount.  Format ‘dd/mm/yyyy’ | blank |
| Date To | TEMP\_ACTIVE\_TO if there is a value for Temporary Voluntary Amount.  Format ‘dd/mm/yyyy’ | blank |
| Radio Buttons | See detail below | Not marked |
| VAS Service | VAS\_TYPE  CMAN (notify only)  CLCK (notify & lock) | blank |
| Soft Lock Requested | If VAS\_TYPE =  CMAN then No  CLCK then Yes | blank |
| Scratchpad Topic | Blank | blank |
| Comment | Blank | blank |

#### Permanent Voluntary Amount, Temporary Voluntary Amount and Radio Buttons

The following rules will be applied to determine the values for pre-populating Permanent Voluntary Amount and Temporary Voluntary Amount. The value that is currently in effect will be indicated by the marked radio button.

* If the HAS\_TEMP\_LIMIT parameter in the QCLVAS query = ‘N’, the VOL\_AMOUNT pertains to the Permanent Voluntary Amount and the Temporary Voluntary Amount will be blank. The radio button Permanent Voluntary will be marked.
* If the HAS\_TEMP\_LIMIT parameter in the QCLVAS query = ‘Y’ and the TEMP\_LIMIT\_CURR\_FUTURE parameter = ‘F’, the VOL\_AMOUNT pertains to the Permanent Voluntary Amount The VOL\_AMOUNT in the QCLTMP query pertains to the Temporary Voluntary Amount. The radio button Permanent Voluntary will be marked.
* If the HAS\_TEMP\_LIMIT parameter in the QCLVAS query = ‘Y’ and the TEMP\_LIMIT\_CURR\_FUTURE parameter = ‘C’, the VOL\_AMOUNT pertains to the Temporary Voluntary Amount. The VOL\_AMOUNT in the QCLTMP query pertains to the Permanent Voluntary Amount. The radio button Temporary Voluntary will be marked.

#### Data Input Validations

The following validation rules will be applied when inserting or updating information in the columns below:

Table 723 -Call Limit Update Screen Input Validations

|  |  |
| --- | --- |
| Morpheus CLL Screen Label | Rules: |
| CLL Activation Date | Greater than <today’s date> |
| 1st Notice | Less than 100 |
| 2nd Notice | Greater than value in <1St Notice>  Less than 100 |
| 3rd Notice | Greater than value in <2ndt Notice>  Less than or equal 100 |
| Notification Method | Values: S, E, F  S – SMS, E – Email, F - Fax |
| Notification Number | If S must be a valid VC MSISDN |
| Mandatory Amount | Not editable on non supervisor function  Greater than 0. or -1 ifn no limit set  no minimum value for limit  Greater than value Permanent Voluntary Amount or temporary voluntary amount |
| Permanent Voluntary Amount | Less than value in <MAN\_AMOUNT>  Greater than value in <MIN\_AMOUNT\_PER\_PACKAGE> |
| Temporary Voluntary Amount | Less than value in <MAN\_AMOUNT>  Greater than value in <MIN\_AMOUNT\_PER\_PACKAGE> |
| Date From | Calendar function for selection  Greater than value in <ACTIVATION\_DATE>  Greater than <today’s date>  Must be the 1st day of the month if TVL set is lower than PVL  Default to 1st day of next month if TVLset is lower than PVL  Format ‘dd/mm/yyyy’ |
| Date To | Calendar function for selection Greater than value in < Date From >  Must be the last day of the month  Default to last day of next month  Format ‘dd/mm/yyyy’ |
| Soft Lock Requested**\*** | If = No then VAS service will be set to CMAN (notify only) and VAS service will be made non-editable  If = Yes then VAS service will be set to CLCK (notify & lock) and VAS service will be made non-editable |
| VAS Service**\*** | If = CMAN then Soft Lock Requested will be set No and Soft Lock Requested will be made non-editable  If = CLCK then Soft Lock Requested will be set Yes and Soft Lock Requested will be made non-editable |
| Scratchpad Topic | As per normal |
| Comment | As per normal |

**\***The user may select a value in either Soft Lock Requested or VAS Service. The value in VAS Service is passed to EPPIX as the VAS\_TYPE parameter. Soft Lock Requested is no longer required by EPPIX.

#### Multiple actions in a month - Admin Fee

If the subscriber requests a change to the CLL values more than a configured number of times in a month (managed by Eppix), the subscriber is liable for a cost for the next CLL update in that month. The configured number of ‘free’ updates shall default to 3. The configuration for the default number of updates shall reside in a configuration item for the GUI.

The Gui shall inform the subscriber if a CLL change is to take place if the number of updates has exceeded the configured number of ‘free’ updates. The user shall be informed by a warning pop-up message displaying the following text:

‘More than three updates have already been made this month.

Subscriber will be charged administration fee of <ADMIN\_FEE> value for the MSISDN”

The GUI shall allow the user to accept the cost of the transaction. The user shall also be allowed to close the pop-up message without accepting the transaction.

### GUI Screen Functioning for CLL Actions

The CLL Actions allowed shall determine which function is called. Depending on the CLL Action selected by the user, the appropriate columns will be set to editable.

The following tables indicated which columns will be editable for the CLL action selected by the user for the possible combinations of setting for ML, PVL and TVL..

Table 724 -Non-Supervisor Function No CLL set

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No CLL set -i.e. record not active in CLLVAS query | CLL screen | CLL Action Selected | | |
| Add CLL Values |  |  |
| CLL Actions | Values as from display attributes in CLLVAS:  Add CLL Values |  |  |  |
| CLL Type | Default to Call | Default to Call |  |  |
| CLL Activation Date | Blank | **Editable**, required  Must be in the future |  |  |
| 1st Notice, 2nd Notice, 3rd Notice, Notification Method, Notification Number, | Blank | **Editable**, required.  See for Table 723 |  |  |
| Mandatory Amount | Blank | Not Editable |  |  |
| Permanent Voluntary Amount | Blank | **Editable**, required  See for Table 723 |  |  |
| Temporary Voluntary Amount, date from and date to | Blank | Not Editable |  |  |
| Radio button | Not set | Not Editable |  |  |
| VAS Service, Soft Lock Requested | blank | **Editable**, required |  |  |
| Scratchpad Topic, Comment |  | **Editable**, required |  |  |

Table 725 - Supervisor Function No CLL set

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No CLL set -i.e. record not active in CLLVAS query | CLL screen | CLL Action Selected | | |
|  | Add CLL Values |  |  |
| CLL Actions | Values as from display attributes in CLLVAS:  Add CLL Values |  |  |  |
| CLL Type | Default to Call | Default to Call |  |  |
| CLL Activation Date | blank | **Editabl**e, required  Must be in the future |  |  |
| 1st Notice, 2nd Notice, 3rd Notice, Notification Method, Notification Number, | blank | **Editable**, required.  See for Table 723 |  |  |
| Mandatory Amount | blank | Not Editable |  |  |
| Permanent Voluntary Amount | blank | **Editable**, required  See for Table 723 |  |  |
| Temporary Voluntary Amount, date from and date to | blank | Not Editable |  |  |
| Radio button | Not set | Not Editable |  |  |
| VAS Service, Soft Lock Requested | blank | **Editable**, required  See for Table 723 |  |  |
| Scratchpad Topic, Comment |  | **Editable**, required |  |  |

Table 726 - Non-Supervisor Function ML set

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ML = 400 | CLL screen | CLL Action Selected | | |
| Update CLL Values |  |  |
| CLL Actions | Values as from display attributes in CLLVAS:  Update CLL Values |  |  |  |
| CLL Type | Default to Call | Default to Call |  |  |
| CLL Activation Date | Value as from CLLVAS query | **Editable**, required  Must be in the future |  |  |
| 1st Notice, 2nd Notice, 3rd Notice, Notification Method, Notification Number, | Values as from CLLVAS query | **Editable**, required.  See for Table 723 |  |  |
| Mandatory Amount | From the CLLVAS query  400 | Not Editable |  |  |
| Permanent Voluntary Amount | From the CLLVAS query  -1 displayed as blank | **Editable**, required  See for Table 723 |  |  |
| Temporary Voluntary Amount, date from and date to | From the CLLVAS query  Blank | Not Editable |  |  |
| Radio button | Not set | Not Editable |  |  |
| VAS Service, Soft Lock Requested | From the CLLVAS query blank | Not Editable – see note below |  |  |
| Scratchpad Topic, Comment |  | **Editable**, required |  |  |

Note: If a subscriber has a ML the service can only be CLCK, this limit is set by the SP. The subscriber’s line must be softlocked when the limit is reached/exceeded.

Table 727 - Supervisor Function ML set

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ML = 400 | CLL screen | CLL Action Selected | | |
| Update CLL Values | Delete CLL Values |  |
| CLL Actions | Values as from display attributes in CLLVAS:  Update CLL Values  Delete CLL Values**\*** |  |  |  |
| CLL Type | Default to Call | Default to Call | Not Editable |  |
| CLL Activation Date | Value as from CLLVAS query | **Editable**, required  Must be in the future | Not Editable |  |
| 1st Notice, 2nd Notice, 3rd Notice, Notification Method, Notification Number, | Values as from CLLVAS query | **Editable**, required.  See for Table 723 | Not Editable |  |
| Mandatory Amount | From the CLLVAS query  400 | **Editable** either ML or VL required  See for Table 723 | Not Editable |  |
| Permanent Voluntary Amount | From the CLLVAS query  -1 displayed as blank | **Editable** either ML or VL required  See for Table 723 | Not Editable |  |
| Temporary Voluntary Amount, date from and date to | From the CLLVAS query  blank | Not Editable | Not Editable |  |
| Radio button | Not set | Not Editable | Not Editable |  |
| VAS Service, Soft Lock Requested | From the CLLVAS query blank | Not editable – see note on Table 726 | Not Editable |  |
| Scratchpad Topic, Comment |  | **Editable**, required | **Editable**, required |  |

\* Note: When only a ML is set users with the supervisor function will only have the option of Delete CLL Values, selecting this option deletes the CLL record (i.e. makes the record not active). When both ML and PVL are set users with the supervisor function will only have the option of Delete CLL Values and Delete Mandatory Amount. Selecting Delete Mandatory Amount will remove only the ML and Delete CLL Values deletes the CLL record i.e. all limits are removed.

Table 728 - Non-Supervisor Function ML and PVL set

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ML = 400, PVL = 200** | **CLL screen** | **CLL Action Selected** | | |
| Update CLL Values | Delete Voluntary Limit | Add Temporary Voluntary Limit |
| CLL Actions | Values as from display attributes in CLLVAS:  Update CLL Values  Add Temporary Voluntary Limit  Delete Voluntary Limit |  |  |  |
| CLL Type | Default to Call | Default to Call | Not Editable | Default to Call |
| CLL Activation Date | Value as from CLLVAS query | **Editable**, required  Must be in the future | Not Editable | Not Editable |
| 1st Notice, 2nd Notice, 3rd Notice, Notification Method, Notification Number, | Values as from CLLVAS query | **Editable**, required.  See for Table 723 | Not Editable | **Editable**, required.  See for Table 723 |
| Mandatory Amount | From the CLLVAS query  400 | Not Editable | Not Editable | Not Editable |
| Permanent Voluntary Amount | From the CLLVAS query  200 | **Editable**, required.  See for Table 723 | Not Editable | Not Editable |
| Temporary Voluntary Amount, date from and date to | From the CLLVAS query  blank | Not Editable | Not Editable | **Editable**, required.  See for Table 723 |
| Radio button | PVL will be marked | Not Editable | Not Editable | Not Editable |
| VAS Service, Soft Lock Requested | Values as from the CLLVAS query | Not editable – see note on Table 726 | Not Editable | **Editable**, required |
| Scratchpad Topic, Comment |  | **Editable**, required | **Editable**, required | **Editable**, required |

Table 729 - Supervisor Function ML and PVL set

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ML = 400, PVL = 200** | **CLL screen** | **CLL Action Selected** | | |
| Update CLL Values | Delete CLL Values  Delete Voluntary Limit  Delete Mandatory Amount | Add Temporary Voluntary Limit |
| CLL Actions | Values as from display attributes in CLLVAS:  Delete Mandatory Amount  Update CLL Values  Delete CLL Values  Add Temporary Voluntary Limit  Delete Voluntary Limit |  |  |  |
| CLL Type | Default to Call | Default to Call | Not Editable | Default to Call |
| CLL Activation Date | Value as from CLLVAS query | **Editable**, required  Must be in the future | Not Editable | Not Editable |
| 1st Notice, 2nd Notice, 3rd Notice, Notification Method, Notification Number, | Values as from CLLVAS query | **Editable**, required.  See for Table 723 | Not Editable | **Editable**, required.  See for Table 723 |
| Mandatory Amount | From the CLLVAS query  400 | **Editable** either ML or VL required  See for Table 723 | Not Editable | Not Editable |
| Permanent Voluntary Amount | From the CLLVAS query  -1 displayed as blank | **Editable** either ML or VL required  See for Table 723 | Not Editable | Not Editable |
| Temporary Voluntary Amount, date from and date to | From the CLLVAS query  blank | Not Editable | Not Editable | **Editable**, required.  See for Table 723 |
| Radio button | PVL will be marked | Not Editable | Not Editable | Not Editable |
| VAS Service, Soft Lock Requested | From the CLLVAS query blank | Not editable – see note on Table 726 | **Editable**, required | Not editable – see note on Table 726 |
| Scratchpad Topic, Comment |  | **Editable**, required | **Editable**, required | **Editable**, required |

Table 730 - Non-Supervisor Function ML, PVL and TVL

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ML = 400, PVL = 200, TVL =150** | **CLL screen** | **CLL Action Selected** | | |
|  | Delete Temporary Voluntary Limit |  |
| CLL Actions | Values as from display attributes in CLLVAS:  Delete Temporary Voluntary Limit |  |  |  |
| CLL Type | Default to Call |  | Not Editable |  |
| CLL Activation Date | Value as from CLLVAS query |  | Not Editable |  |
| 1st Notice, 2nd Notice, 3rd Notice, Notification Method, Notification Number, | Values as from CLLVAS query |  | Not Editable |  |
| Mandatory Amount | From the CLLVAS query  400 |  | Not Editable |  |
| Permanent Voluntary Amount | From the CLLVAS query  200 |  | Not Editable |  |
| Temporary Voluntary Amount, date from and date to | From the CLLVAS query  Blank |  | Not Editable |  |
| Radio button | PVL/TVL will be marked |  | Not Editable |  |
| VAS Service, Soft Lock Requested | Values as from the CLLVAS query |  | Not Editable |  |
| Scratchpad Topic, Comment |  |  | **Editable**, required |  |

Table 731 - Supervisor Function ML, PVL and TVL

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ML = 400, PVL = 200, TVL =150** | **CLL screen** | **CLL Action Selected** | | |
| Delete Temporary Voluntary Limit |  |  |
| CLL Actions | Values as from display attributes in CLLVAS:  Delete Temporary Voluntary Limit – **see note below.** |  |  |  |
| CLL Type | Default to Call | Not Editable |  |  |
| CLL Activation Date | Value as from CLLVAS query | Not Editable |  |  |
| 1st Notice, 2nd Notice, 3rd Notice, Notification Method, Notification Number, | Values as from CLLVAS query | Not Editable |  |  |
| Mandatory Amount | From the CLLVAS query  400 | Not Editable |  |  |
| Permanent Voluntary Amount | From the CLLVAS query  -1 displayed as blank | Not Editable |  |  |
| Temporary Voluntary Amount, date from and date to | From the CLLVAS query  Blank | Not Editable |  |  |
| Radio button | PVL/TVL will be marked | Not Editable |  |  |
| VAS Service, Soft Lock Requested | From the CLLVAS query blank | Not Editable |  |  |
| Scratchpad Topic, Comment |  | **Editable** - Required |  |  |

\***NOTE: Currently on EPPIX if there is a TVL set, the ML cannot be changed. In the future the user will be able to edit/remove the ML if a TVL exists.**

Table 732 - Non-Supervisor PVL set

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PVL = 200** | **CLL screen** | **CLL Action Selected** | | |
| Update CLL Values | Delete CLL Values | Add Temporary Voluntary Limit |
| CLL Actions | Values as from display attributes in CLLVAS:  Update CLL Values  Delete CLL Values  Add Temporary Voluntary Limit |  |  |  |
| CLL Type | Default to Call | Default to Call | Not Editable | Default to Call |
| CLL Activation Date | Value as from CLLVAS query | **Editable**, required  Must be in the future | Not Editable | Not Editable |
| 1st Notice, 2nd Notice, 3rd Notice, Notification Method, Notification Number, | Values as from CLLVAS query | **Editable**, required.  See for Table 723 | Not Editable | **Editable**, required.  See for Table 723 |
| Mandatory Amount | From the CLLVAS query  400 | Not Editable | Not Editable | Not Editable |
| Permanent Voluntary Amount | From the CLLVAS query  200 | **Editable**, required.  See for Table 723 | Not Editable | Not Editable |
| Temporary Voluntary Amount, date from and date to | From the CLLVAS query  blank | Not Editable | Not Editable | **Editable**, required.  See for Table 723 |
| Radio button | PVL will be marked | Not Editable | Not Editable | Not Editable |
| VAS Service, Soft Lock Requested | Values as from the CLLVAS query | **Editable**, required | Not Editable | **Editable**, required |
| Scratchpad Topic, Comment |  | **Editable**, required | **Editable**, required | **Editable**, required |

Table 733 - Supervisor PVL set

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PVL = 200** | **CLL screen** | **CLL Action Selected** | | |
| Update CLL Values | Delete CLL Values | Add Temporary Voluntary Limit |
| CLL Actions | Values as from display attributes in CLLVAS:  Update CLL Values  Delete CLL Values  Add Temporary Voluntary Limit |  |  |  |
| CLL Type | Default to Call | Default to Call | Not Editable | Default to Call |
| CLL Activation Date | Value as from CLLVAS query | **Editable**, required  Must be in the future | Not Editable | Not Editable |
| 1st Notice, 2nd Notice, 3rd Notice, Notification Method, Notification Number, | Values as from CLLVAS query | **Editable**, required.  Table 723 | Not Editable | **Editable**, required.  See for Table 723 |
| Mandatory Amount | From the CLLVAS query  400 | Not Editable | Not Editable | Not Editable |
| Permanent Voluntary Amount | From the CLLVAS query  -1 displayed as blank | **Editable**  Table 723 | Not Editable | Not Editable |
| Temporary Voluntary Amount, date from and date to | From the CLLVAS query  Blank | Not Editable | Not Editable | **Editable**, required.  See for Table 4 -Call Limit Update Screen Input Validations |
| Radio button | PVL will be marked | Not Editable | Not Editable | Not Editable |
| VAS Service, Soft Lock Requested | From the CLLVAS query blank | **Editable**, required | Not Editable | **Editable**, required |
| Scratchpad Topic, Comment |  | **Editable**, required | **Editable**, required | **Editable**, required |

Table 734 – Non Supervisor PVL and TVL set

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PVL = 200, TVL = 150** | **CLL screen** | **CLL Action Selected** | | |
|  | Delete Temporary Voluntary Limit |  |
| CLL Actions | Values as from display attributes in CLLVAS:  Delete Temporary Voluntary Limit |  |  |  |
| CLL Type | Default to Call |  | Not Editable |  |
| CLL Activation Date | Value as from CLLVAS query |  | Not Editable |  |
| 1st Notice, 2nd Notice, 3rd Notice, Notification Method, Notification Number, | Values as from CLLVAS query |  | Not Editable |  |
| Mandatory Amount | From the CLLVAS query  400 |  | Not Editable |  |
| Permanent Voluntary Amount | From the CLLVAS query  200 |  | Not Editable |  |
| Temporary Voluntary Amount, date from and date to | From the CLLVAS query  Blank |  | Not Editable |  |
| Radio button | PVL will be marked |  | Not Editable |  |
| VAS Service, Soft Lock Requested | Values as from the CLLVAS query |  | Not Editable |  |
| Scratchpad Topic, Comment |  |  | **Editable**, required |  |

Table 735 - Supervisor PVL and TVL set

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PVL = 200, TVL = 150** | **CLL screen** | **CLL Action Selected** | | |
|  | Delete Temporary Voluntary Limit |  |
| CLL Actions | Values as from display attributes in CLLVAS:  Delete Temporary Voluntary Limit |  |  |  |
| CLL Type | Default to Call |  | Not Editable |  |
| CLL Activation Date | Value as from CLLVAS query |  | Not Editable |  |
| 1st Notice, 2nd Notice, 3rd Notice, Notification Method, Notification Number, | Values as from CLLVAS query |  | Not Editable |  |
| Mandatory Amount | From the CLLVAS query  400 |  | Not Editable |  |
| Permanent Voluntary Amount | From the CLLVAS query  -1 displayed as blank |  | Not Editable |  |
| Temporary Voluntary Amount, date from and date to | From the CLLVAS query  Blank |  | Not Editable |  |
| Radio button | Set either PVL or TVL will be marked |  | Not Editable |  |
| VAS Service, Soft Lock Requested | From the CLLVAS query blank |  | Not Editable |  |
| Scratchpad Topic, Comment |  |  | **Editable**, required |  |

## Tariff Toggle Keywords

Note the keyword ID’s are not case-sensitive.

Table 736: Keyword ID’s

| ID | Description |
| --- | --- |
| SEC | Per second billing tariff |
| SECOND | Per second billing tariff |
| SEKUNDE | Per second billing tariff |
| SEK | Per second billing tariff |
| MINUTE | Per minute billing tariff |
| MIN | Per minute billing tariff |
| DAKIKA | Per minute billing tariff |
| DAK | Per minute billing tariff |
| T4L | Talk4Less billing tariff |
| TALK4LESS | Talk4Less billing tariff |
| TALK | Talk4Less billing tariff |

## Notifications

Table 737: Notification Timeslot Categories

|  |  |
| --- | --- |
| Timeslot Category | Description |
| AH | All Hours: Default; 0:01 – 24:00 |
| BH | Business Hours: Weekdays 8:00 – 17:00, no delivery on public holidays |
| XH | Extended Business Hours: Weekdays 07.00 – 21.00, no delivery on public holidays |
| EW | Weekend and evening hours - Weekdays 17:00 – 21:00, weekends 8:00 – 21:00 including public holidays |
| NO | Do not send |

Table 738: Notification Categories

|  |  |
| --- | --- |
| **Notification Category** | **Description** |
| COMMERCIAL | Notifications relating to subscriber provisioning events such as Offer Activation or Migration |
| PROMOTION | Miscellaneous Notifications |
| SECURITY | Security notifications that contain User ID and/or password |
| USAGE | Notifications alerting subscriber to service usage thresholds -  covers data bundle, content billed and ADSL usage notifications |
| REWARD | Notification of rewards given to subscribers |
| REMINDER | Reminders to subscribers of upcoming events, such as Prepaid Blackberry subscription |
| SRM | Notifications relating to Service Request Events |
| SRMCAMPGN | SRM campaign notifications |

Table 739: Contact Types

|  |  |
| --- | --- |
| Contact Type | Description |
| H | Home number |
| B | Business number |
| F | Fax number |
| EH | Email Home |
| EB | Email business |
| C | Cellular phone |
| ES | Secondary Email |
| CS | Alternate MSISDN |
| C2 | 2nd Alternate MSISDN |

## Digital revenue reporting

The following tables list the possible values which can be expected for the input fields called Revenue Orig Id and Channel Id which are required for Digital Revenue Reporting.

*Table 740 Channnel ID*

| **Ref** | **Channel ID** | **Description** |
| --- | --- | --- |
| 1 | ONL-001 | CBU Online |
| 2 | ONL-002 | EBU Online |
| 3 | APP-001 | My Vodacom APP |
| 4 | MOB-001 | MOBI |
| 5 | USS-001 | USSD (My phone \*111#) - Open Market |
| 6 | USS-002 | USSD (THOUGHT EXPRESS) |
| 7 | CVM-001 | CVM |
| 8 | FBK-001 | FACEBOOK |
| 9 | IVR-001 | IVR |
| 10 | SBL-001 | C3D Siebel |
| 11 | SBL-002 | EBU Siebel |
| 12 | ICA-001 | ICAP Flex |
| 13 | MII-001 | Morpheus 2 (Dealer) |
| 14 | MII-002 | Morpheus |
| 15 | EBU-001 | EBU Cloud Market Place |
| 16 | FIN-001 | Financial Institutions |
| 17 | POS-001 | Point of Sale |
| 18 | WAS-001 | WASPs |
| 19 | OMN-001 | OMNI Channel |
| 20 | KWS-001 | Keyword SMS (31118) |
| 21 | KWS-002 | Keyword SMS (31050) |

*Table 741 Revenue Orig ID*

|  |  |  |
| --- | --- | --- |
| **Ref** | **Promotion Description** | **Revenue Orig ID** |
| 1 | J4U | 1000000 |
| 2 | J4U Upsells | 1000001 |
| 3 | Deal Recommendations | 1000002 |
| 4 | NXT LVL | 1000003 |
| 5 | APP Shake | 1000004 |
| 6 | Facebook | 1000005 |
| 7 | Double your data | 1000006 |
| 8 | 100 gigs | 1000007 |

1. Few subscriber attributes can be migrated. Most are created or terminated. [↑](#footnote-ref-2)
2. Query IN account balance is a function that is only allowed for prepaid subscribers [↑](#footnote-ref-3)
3. This may not be available for all prize types – GE would not know when the prize was redeemed in the case of lifestyle rewards / devices / etc. [↑](#footnote-ref-4)
4. Few subscriber attributes can be migrated. Most are created or terminated. [↑](#footnote-ref-5)