

v1.14_

```

ACTUAL_FROM ACTUAL_TO . 1:
    , ACTUAL_TO, , SoftWLC. ACTUAL_FROM .
    ACTUAL_FROM, , SoftWLC. ACTUAL_TO 2024.12.31.23:59:59.

UNSTRUCT_NAME . 1:
HotSpot « Wi-Fi + », « Wi-Fi » - , - HotSpot( ).  

ENTERPRISE, « + », « » - , - Enterprise( - , , ).  

VOUCHER « VOUCHER + », « VOUCHER » - , - , .  

IDENT_CARD_UNSTRUCT . 1:
HotSpot, SMS, - « Wi-Fi ».  

HotSpot, , - « Wi-Fi ».  

HotSpot, / , , (). ENTERPRISE , ().  

VOUCHER , ().

PHONE . 2:
HotSpot, SMS, , .  

HotSpot, , .  

HotSpot, / , , .  

ENTERPRISE , .  

VOUCHER , .

LOGIN . 2:
HotSpot, SMS, , .  

HotSpot, , ESIA .  

HotSpot, / , .  

ENTERPRISE .  

VOUCHER .

E_MAIL . 2:
ENTERPRISE , .  

. 1 (ABONENT*)_

```

| | «» | | | | | | |
|---|---------------|-----------------------------|---|--|---|---|--------------------------------------|
| 1 | ID | INTEGER(0..4294967295) | + | | PK – (ABONENT_IDENT, ABONENT_INTERNAL_USER, ABONENT_ADDRESS, ABONENT_SERVICE) | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | ID |
| 2 | REGION_ID | INTEGER (0 .. 65535) | + | | () | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | REGION_ID |
| 3 | CONTRACT_DATE | UTCTime | + | | | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | CONTRACT_DATE |
| 4 | CONTRACT | UTF8String (SIZE (1 .. 64)) | + | | | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | CONTRACT («») |
| 5 | ACTUAL_FROM | UTCTime | + | | , (ABONENT +(ABONENT_IDENT, ABONENT_INTERNAL_USER, ABONENT_ADDRESS, ABONENT_SERVICE) | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | ACTUAL_FROM |
| 6 | ACTUAL_TO | UTCTime | + | | , (ABONENT +(ABONENT_IDENT, ABONENT_INTERNAL_USER, ABONENT_ADDRESS, ABONENT_SERVICE) | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | ACTUAL_TO (`2024.12.31 23:59:59`) |

| | | | | | | | |
|----|--|--|---|---|-------------------|---|--|
| 7 | ABONENT_TYPE | sorm-report-abonent-person OID ::= "42", sorm-report-abonent-organization OID ::= "43" | + | | : "42" - , "43" - | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | ABONENT_TYPE («42») |
| 8 | NAME_INFO_TYPE | UTF8String (SIZE (1)) | + | ABONENT_TYPE = "42" | . : , "0" - "1" - | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | NAME_INFO_TYPE («1») |
| | <name-info <struct-name> <unstruct-name> | | | + | . : : | | |
| | <struct-name | | | | | | |
| 9 | FAMILY_NAME | UTF8String (SIZE (1 .. 128)) | + | ABONENT_TYPE = "42" NAME_INFO_TYPE= "0" | | | 8, «1», () |
| 10 | GIVEN_NAME | UTF8String (SIZE (1 .. 128)) | + | ABONENT_TYPE = "42" NAME_INFO_TYPE= "0" | | | 8, «1», () |
| 11 | INITIAL_NAME | UTF8String (SIZE (1 .. 128)) | + | ABONENT_TYPE = "42" NAME_INFO_TYPE= "0" | | | 8, «1», () |
| | struct-name> | | | | | | |
| | <unstruct-name | | | | | | |
| 12 | UNSTRUCT_NAME | UTF8String(SIZE(1 .. 1024)) | + | ABONENT_TYPE = "42" NAME_INFO_TYPE= "1" | | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | UNSTRUCT_NAME (ENTERPRISE VOUCHER 2017.) |
| | unstruct-name> | | | | | | |
| | name-info> | | | | | | |
| 13 | BIRTH_DATE | GeneralizedTime | + | ABONENT_TYPE = "42" | . : . | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | BIRTH_DATE («1970.12.31 23:59:59») |
| 14 | IDENT_CARD_TYPE_ID | INTEGER (0 .. 65535) | + | ABONENT_TYPE = "42" | . : , () | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | IDENT_CARD_TYPE_ID («0») |
| 15 | IDENT_CARD_TYPE | UTF8String (SIZE (1)) | - | ABONENT_TYPE = "42" IDENT_CARD_TYPE | . : , "0" - "1" - | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | IDENT_CARD_TYPE («1») |
| | <ident-card-info <struct-info> <unstruct-info> | | | + | | . : , | |
| | <struct-info | | | | | | |

| | | | | | | | |
|------------------|------------------------|--|---|--|--|---|-------------------------------------|
| 16 | IDENT_CARD_SERIAL | UTF8String (SIZE (1 .. 16)) | + | ABONENT_TYPE = "42" IDENT_CARD_TYPE | | | 15 () |
| 17 | IDENT_CARD_NUMBER | NumericString (SIZE (1 .. 16)) | + | ABONENT_TYPE = "42" IDENT_CARD_TYPE | | | 15 () |
| 18 | IDENT_CARD_DESCRIPTION | UTF8String (SIZE (1 .. 256)) | + | ABONENT_TYPE = "42" IDENT_CARD_TYPE | | | 15 () |
| struct-info> | | | | | | | |
| <unstruct-info> | | | | | | | |
| 19 | IDENT_CARD_UNSTRUCT | UTF8String (SIZE (1 .. 512)) | + | ABONENT_TYPE = "42" | | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | IDENT_CARD_UNSTRUCT (VOUCHER 2017.) |
| unstruct-info> | | | | | | | |
| ident-card-info> | | | | | | | |
| 20 | BANK | UTF8String (SIZE(1 .. 256)) | - | | () | | () |
| 21 | BANK_ACCOUNT | UTF8String (SIZE(1 .. 30)) | - | | () | | () |
| 22 | FULL_NAME | UTF8String (SIZE (1 .. 128)) | + | ABONENT_TYPE = "43" | .: . | | 7, «42», () |
| 23 | INN | UTF8String (SIZE(1 .. 64)) | + | ABONENT_TYPE = "43" | .: | ABONENTS_ENTERPRISE_* | 7, «42», () |
| 24 | CONTACT | UTF8String (SIZE (1 .. 128)) | - | ABONENT_TYPE = "43" | .: | ABONENTS_ENTERPRISE_* | 7, «42», () |
| 25 | PHONE_FAX | UTF8String (SIZE (1 .. 128)) | - | ABONENT_TYPE = "43" | .: , | | 7, «42», () |
| 26 | STATUS | ENUMERATED { active (0), not-active (1)} | + | | "0" - () , "1" - () | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | STATUS («0») |
| 27 | ATTACH | UTCTime | - | | () | | () |
| 28 | DETACH | UTCTime | - | | () | | () |
| 29 | NETWORK_TYPE | ENUMERATED { not-specified(0), mob-gsm(1), mob-cdma(2),fix-pstn (3), data-ip(4),data-srv(5), data-ip-mob(6), data-ip-wifi (7), data-ip-max (8), paging(9), voip(10)} | + | : | 0 - , 1 - GSM, 2 - CDMA, 3 - , 4 - , 5 - , 6 - , 7 - WiFi, 8 - WiMAX, 9 - , 10 - | ABONENTS_* ABONENTS_ENTERPRISE_* ABONENTS_VOUCHER_* | NETWORK_TYPE («7») |
| 30 | INTERNAL_ID1 | UTF8String (SIZE (1 .. 128)) | - | | (1). .. | | () |
| 31 | INTERNAL_ID2 | UTF8String (SIZE (1 .. 128)) | - | | (2). .. | | () |

.2 ABONENT_IDENT (ABONENT_ID*)

| | | | | | | | |
|---|------------|------------------------|---|--|--------------|--|----|
| | | | | | | | |
| 1 | ABONENT_ID | INTEGER(0..4294967295) | + | | FK (ABONENT) | ABONENTS_ID_* ABONENTS_ENTERPRISE_ID_* ABONENTS_VOUCHER_ID_* | ID |

| | | | | | | | |
|-------------------------------|-----------------|---------------------------------|---|--|--|--|--|
| 2 | REGION_ID | INTEGER (0 .. 65535) | + | | () | ABONENTS_ID_* ABONENTS_ENTERPRISE _ID_* ABONENTS_VOUCHER_ID _* | REGION_ID |
| 4 | IDENT_TYPE | UTF8String(SIZE (1 .. 256)) | + | : | "1" – PAGER "2" – PSTN "3" – GSM "4" – CDMA "5" – DATA NETWORK "6" – VOIP | ABONENTS_ID_* ABONENTS_ENTERPRISE _ID_* ABONENTS_VOUCHER_ID _* | IDENT_TYPE ("5") |
| 5 | PHONE | UTF8String(SIZE (2 .. 32)) | + | IDENT_TYPE = "5" | / | ABONENTS_ID_* ABONENTS_ENTERPRISE _ID_* ABONENTS_VOUCHER_ID _* | PHONE ("ENTERPRISE VOUCHER 2017.") |
| 6 | INTERNAL_NUMBER | UTF8String (SIZE (1 .. 32)) | - | IDENT_TYPE = "2" | pstn: , | | () |
| 7 | IMSI | NumericString (SIZE (10 .. 18)) | + | IDENT_TYPE = "3" IDENT_TYPE = "4" | gsm,cdma: | | 4 () |
| 8 | IMEI | NumericString (SIZE (10 .. 18)) | - | IDENT_TYPE = "3" IDENT_TYPE = "4" | gsm,cdma: | | () |
| 9 | ICC | NumericString (SIZE (19 .. 20)) | - | IDENT_TYPE = "3" IDENT_TYPE = "4" | gsm,cdma: SIM- | | () |
| 10 | MIN | NumericString (SIZE (10 .. 18)) | - | IDENT_TYPE = "4" | cdma: | | () |
| 11 | ESN | NumericString (SIZE (10 .. 18)) | - | IDENT_TYPE = "4" | cdma: | | () |
| 12 | EQUIPMENT_TYPE | Integer(SIZE(1)) | - | IDENT_TYPE = "5" | data-network: : 0 – MAC-, 1- ATM | | () |
| <user-equipment <mac><atm> | | | - | | | | |
| <mac | | | | | MAC- | | |
| 13 | MAC | OCTET STRING (SIZE (6)) | + | IDENT_TYPE = "5" EQUIPMENT_TYP E=0 | MAC- (HEX) | | 11 () |
| mac> | | | | | | | |
| <atm | | | | | ATM | | |
| 14 | VPI | OCTET STRING (SIZE (1)) | + | IDENT_TYPE = "5" EQUIPMENT_TYP E=1 | (VCI) (HEX) | | 11 () |
| 15 | VCI | OCTET STRING (SIZE (2)) | - | IDENT_TYPE = "5" EQUIPMENT_TYP E=1 | (VCI) (HEX) | | 11 () |
| atm> | | | | | | | |
| user-equipment> | | | | | | | |
| 16 | LOGIN | UTF8String (SIZE (1 .. 128)) O | - | IDENT_TYPE = "5" | data-network: – login | ABONENTS_ID_* ABONENTS_ENTERPRISE _ID_* ABONENTS_VOUCHER_ID _* | LOGIN |
| 17 | E_MAIL | UTF8String (SIZE (1 .. 128)) | - | IDENT_TYPE = "5" | data-network: | ABONENTS_ID_* ABONENTS_ENTERPRISE _ID_* ABONENTS_VOUCHER_ID _* | E_MAIL ("ENTERPRISE 2017.") |
| 18 | PIN | NumericString (SIZE (2 .. 20)) | - | IDENT_TYPE = "5" | data-network: PIN | | () |
| 19 | USER_DOMAIN | UTF8String (SIZE (2 .. 128)) | - | IDENT_TYPE = "5" | data-network: | ABONENTS_ID_* ABONENTS_ENTERPRISE _ID_* ABONENTS_VOUCHER_ID _* | USER_DOMAIN |
| 20 | RESERVED | UTF8String (SIZE (1 .. 128)) | - | IDENT_TYPE = "5" | data-network: | | () |
| 21 | ORIGINATOR_NAME | UTF8String (SIZE (1 .. 32)) | + | IDENT_TYPE = "6" | voip: | | () |

| | | | | | | | |
|---|-------------------|------------------------------|---|---|--|--|------------|
| 22 | IP_TYPE | UTF8String(SIZE (1)) | - | IDENT_TYPE = "5" IDENT_TYPE = "6" | data-network, voip: IP : "0" - 4, "1" - 6. | ABONENTS_ID_* ABONENTS_ENTERPRISE_ID_* ABONENTS_VOUCHER_ID_* | () |
| <ip-address IPV4 IPV6 | | | | + | data-network: IP-. voip: IP-. | | |
| 23 | IPV4 | OCTET STRING (SIZE (4)) | + | IDENT_TYPE = "5" IDENT_TYPE = "6" IP_TYPE = "0" | IP4 (HEX) | | 21 () |
| 24 | IPV6 | OCTET STRING (SIZE (16)) | + | IDENT_TYPE = "5" IDENT_TYPE = "6" IP_TYPE = "1" | IP6 (HEX) | | 21 () |
| ip-address> | | | | | | | |
| 25 | IP_MASK | | - | IDENT_TYPE = "5" IDENT_TYPE = "6" | | | () |
| 26 | IP_RANGE_START | OCTET STRING (SIZE (16)) | - | IDENT_TYPE = "5" IDENT_TYPE = "6" | IP (HEX), IPv6 16 byte HEX | | () |
| 26 | IP_RANGE_END | OCTET STRING (SIZE (16)) | - | IDENT_TYPE = "5" IDENT_TYPE = "6" | IP (HEX), IPv6 16 byte HEX | | () |
| 28 | INTERNAL_ID1 | UTF8String (SIZE (1 .. 128)) | + | | (1) | | () |
| 29 | INTERNAL_ID2 | UTF8String (SIZE (1 .. 128)) | + | | (2) | | () |
| 30 | BEGIN_TIME | UTCTime | - | . | . | ABONENTS_ID_* ABONENTS_ENTERPRISE_ID_* ABONENTS_VOUCHER_ID_* | BEGIN_TIME |
| 31 | END_TIME | UTCTime | - | . | . | | () |
| <line-data | | | - | | (, , ..) | | |
| 32 | LINE_OBJECT | UTF8String (SIZE (1 .. 128)) | - | | | | () |
| 33 | LINE_CROSS | UTF8String (SIZE (1 .. 128)) | - | | | | () |
| 34 | LINE_BLOCK | UTF8String (SIZE (1 .. 128)) | - | | | | () |
| 35 | LINE_PAIR | UTF8String (SIZE (1 .. 128)) | - | | | | () |
| 36 | LINE_RESERVED | UTF8String (SIZE (1 .. 128)) | - | | | | () |
| line-data> | | | | | | | |
| <last-location <mobile-location ><wireless-location> <geo-location> | | | - | | , | | |
| 37 | LOC_TYPE | INTEGER | - | , | 0 - , 1 - , 2 - , | | () |
| <mobile-location | | | | | , | | |
| 38 | LOC_LAC | INTEGER (0 .. 65535) | + | LOC_TYPE = "0" | | | 36 () |
| 39 | LOC_CELL | INTEGER (0 .. 4294967295) | + | LOC_TYPE = "0" | | | 36 () |
| 40 | LOC_TA | INTEGER (0 .. 63) | - | LOC_TYPE = "0" | Timing Advance () | | 36 () |
| mobile-location > | | | | | | | |
| <wireless-location | | | | | | | |
| 41 | LOC_CELL_WIRELESS | UTF8String (SIZE (1 .. 64)) | + | LOC_TYPE = "1" | | | 36 () |

| | | | | | | | |
|--------------------|---------------------|--|---|----------------|---------------------------------|--|-------|
| 42 | LOC_MAC | OCTET STRING (SIZE (6)) | + | LOC_TYPE = "1" | MAC- | | 36 () |
| wireless-location> | | | | | | | |
| <geo-location | | | | | | | |
| 43 | LOC_LATITUDE | REAL | + | LOC_TYPE = "2" | . - . | | 36 () |
| 44 | LOC_LONGITUDE | REAL | + | LOC_TYPE = "2" | . - . | | 36 () |
| 45 | LOC_PROJECTION_TYPE | ENUMERATED { wgs84 (0), utm (1), sgs85 (2) } | + | LOC_TYPE = "2" | (wgs84 (0), utm (1), sgs85 (2)) | | 36 () |
| geo-location> | | | | | | | |
| last-location> | | | | | | | |

.3 (BASE_STATION)_

| | | | | | | | |
|--|-----------------|---|---|---|----------------|---------------------------------------|------------|
| | | | | | | | |
| 1 | ID | | + | | BASE_STATION_* | ID | |
| 2 | BEGIN_TIME | UTCTime | + | | BASE_STATION_* | BEGIN_TIME («2000.12.31 23:59:59») | |
| 3 | END_TIME | UTCTime | + | | BASE_STATION_* | END_TIME («2024.12.31 23:59:59») | |
| 4 | STATION_TYPE | ENUMERATED { gsm (0), cdma (1), umts (2), wifi (3), wimax (4) } | + | : 0 - GSM, 1 - CDMA, 2 - UMTS, 3 - WIFI, 4 - WIMAX | BASE_STATION_* | STATION_TYPE («3») | |
| 5 | ADDRESS | UTF8String (SIZE (1 .. 256)) | + | SECTOR_TYPE = 0 | BASE_STATION_* | «» | |
| 6 | SECTOR_TYPE | | + | : 0 - , 1 - | BASE_STATION_* | SECTOR_TYPE («1») | |
| <BasicStationIdentifiers <telephone> | | | + | : | | | |
| <telephone> | | | | | | | |
| 7 | LAC | INTEGER (0 .. 65535) | + | : | | | 6, «1», () |
| 8 | CELL | INTEGER (0 .. 4294967295) | + | - SECTOR_TYPE = 0 | | | 6, «1», () |
| 9 | CELL_SIGN | UTF8String (SIZE (1 .. 18)) | - | () SECTOR_TYPE = 0 | | | 6, «1», () |
| telephone > | | | | | | | |
| 10 | ADDRESS_TYPE_ID | ENUMERATED { registered (0), postal (1), invoice (2), device-location (3), reserved (4) } | - | : 0 - 1 - 2 - 3 - 4 - | BASE_STATION_* | ADDRESS_TYPE_ID («3») | |
| 11 | ADDRESS_TYPE | | - | : 0 - , 1 - | BASE_STATION_* | ADDRESS_TYPE («0») | |
| <ReportedAddress <struct-info> <unstruct-info> | | | - | : | | | |
| <struct-info> | | | | | | | |
| 12 | ZIP | UTF8String (SIZE (1 .. 32)) | - | : , zip- | BASE_STATION_* | ZIP | |
| 13 | COUNTRY | UTF8String (SIZE (1 .. 128)) | - | : | BASE_STATION_* | COUNTRY («Russia») | |
| 14 | REGION | UTF8String (SIZE (1 .. 128)) | - | : | BASE_STATION_* | REGION | |
| 15 | ZONE | UTF8String (SIZE (1 .. 128)) | - | : , | BASE_STATION_* | ZONE | |
| 16 | CITY | UTF8String (SIZE (1 .. 128)) | - | : , , | BASE_STATION_* | CITY | |
| 17 | STREET | UTF8String (SIZE (1 .. 128)) | - | : | BASE_STATION_* | STREET | |
| 18 | BUILDING | UTF8String (SIZE (1 .. 128)) | - | : , | BASE_STATION_* | BUILDING | |
| 19 | BUILD_SECT | UTF8String (SIZE (1 .. 128)) | - | : | BASE_STATION_* | BUILD_SECT | |
| 20 | APARTEMENT | UTF8String (SIZE (1 .. 128)) | - | : , | BASE_STATION_* | APARTEMENT | |

| | | | | | | | |
|------------------|-----------------|--|---|--|--|----------------|-----------|
| struct-info> | | | | | | | |
| < unstruct-info | | | | | | | |
| 21 | UNSTRUCT_INFO | UTF8String(SIZE (1 .. 1024)) | + | | | | |
| unstruct-info> | | | | | | | |
| ReportedAddress> | | | | | | | |
| <GeoLocation | | | - | | | | |
| 22 | LATITUDE | REAL | + | : | | | LATITUDE |
| 23 | LONGITUDE | REAL | + | : | | | LONGITUDE |
| 24 | PROJECTION_TYPE | ENUMERATED {wgs84 (0), utm (1), sgs85 (2)} | + | : . 0 - wgs84, 1 - utm, 2 - sgs85 | | | () |
| GeoLocation> | | | | | | | |
| 25 | REGION_ID | INTEGER (0 .. 65535) | + | | | BASE_STATION_* | REGION_ID |

. 4 (BASE_STATION_WIFI_ANTENNA*)_

| | | | | | | | |
|----|-----------------|----------------------------|---|--|-----------------------------|-------------------------|-----|
| | | | | | | | |
| 1 | base_station_id | | + | FK (FOREIGN_KEY to BASE_STATION.ID) | BASE_STATION_WIFI_ANTENNA_* | base_station_id | |
| 2 | antenna_type | | + | : 0 - gsm, 1 - cdma, 2 - wireless | BASE_STATION_WIFI_ANTENNA_* | antenna_type («2») | |
| 3 | azimut | INTEGER (-1 .. 359) | + | : + , , -1, | BASE_STATION_WIFI_ANTENNA_* | azimut («1») | |
| 4 | width | INTEGER (-1 .. 359) | + | | BASE_STATION_WIFI_ANTENNA_* | width («-1») | |
| 5 | horizon_angle | INTEGER (-1 .. 359) | + | | BASE_STATION_WIFI_ANTENNA_* | horizon_angle («-1») | |
| 6 | power | INTEGER (0 .. 25000) | - | () | BASE_STATION_WIFI_ANTENNA_* | power («1») | |
| 7 | frequency_start | INTEGER (0 .. 10000000000) | - | (,), cdma - () | BASE_STATION_WIFI_ANTENNA_* | frequency_start | |
| 8 | frequency_stop | INTEGER (0 .. 10000000000) | - | cdma - () | BASE_STATION_WIFI_ANTENNA_* | frequency_stop | |
| 9 | leaf_level | INTEGER (-45 .. 45) | - | cdma - | | | () |
| 10 | vertical_lift | INTEGER (0 .. 100) | - | | | | () |
| 11 | gain_factor | INTEGER (-100 .. 100) | - | () | BASE_STATION_WIFI_ANTENNA_* | gain_factor | |
| 12 | polarization | INTEGER (-45 .. 45) | - | | | | () |
| 13 | REGION_ID | INTEGER (0 .. 65535) | + | | BASE_STATION_WIFI_ANTENNA_* | REGION_ID | |

. 5 (BASE_STATION_WIFI_WRL*)_

| | | | | | | | |
|---|-----------------|-----------------------------|---|---------------------------------|-------------------------|-----------------|--|
| | | | | | | | |
| 1 | ID | | + | PK | BASE_STATION_WIFI_WRL_* | ID | |
| 2 | BASE_STATION_ID | | + | BASE_STATION.ID SECTOR_TYPE = 1 | BASE_STATION_WIFI_WRL_* | BASE_STATION_ID | |
| 3 | CELL_WIRELESS | UTF8String (SIZE (1 .. 64)) | + | : | BASE_STATION_WIFI_WRL_* | CELL_WIRELESS | |
| 4 | MAC | OCTET STRING (SIZE (6)) | - | : MAC- | BASE_STATION_WIFI_WRL_* | MAC | |
| 5 | REGION_ID | INTEGER (0 .. 65535) | + | | BASE_STATION_WIFI_WRL_* | REGION_ID | |

. 6 IP-/ (BASE_STATION_IP)

| | | | | | | |
|---|--------|--|---|--|-------------------|--------|
| | | | | | | |
| 1 | WRL_ID | | + | | BASE_STATION_IP_* | WRL_ID |

| | | | | | | |
|---|-----------|--------------------------|---|----------------------------------|-------------------|------------------|
| 2 | IP_TYPE | NUMBER(1) | + | IP-: 0 - IPv4-, 1 - IPv6- | BASE_STATION_IP_* | IP_TYPE (`0`) |
| 3 | IPV4 | OCTET STRING (SIZE (4)) | + | IP- , 4 (IP-) IP_TYPE = 0 | BASE_STATION_IP_* | IPV4 |
| 4 | IPV6 | OCTET STRING (SIZE (16)) | + | IP- , 6 (IP-) IP_TYPE = 1 | | 2, «0», () |
| 5 | IP_PORT | OCTET STRING (SIZE (2)) | - | IP- | | () |
| 6 | REGION_ID | INTEGER (0 .. 65535) | + | | BASE_STATION_IP_* | REGION_ID |

.7 (IP_ACC*)

| | | | | | | |
|---------------------------------|-----------------|---|---|-----------------|----------|------------------------|
| | | | | | | |
| 1 | CONNECTION_TIME | UTCTime | + | / (UTC) | IP_ACC_* | START_TIME /END_TIME |
| 2 | REGION_ID | INTEGER (0 .. 65535) | + | | IP_ACC_* | REGION_ID |
| 3 | POINT_ID | INTEGER (0 .. 1000) | + | , | IP_ACC_* | POINT_ID (`0`) |
| 4 | LOGIN_TYPE | ENUMERATED {connect (0) disconnect (1)} | + | 0 - 1 - | IP_ACC_* | 0/1 (Start/Alive Stop) |
| 5 | SESSION_ID | UTF8String (SIZE (1 .. 64)) | + | | IP_ACC_* | SESSION_ID |
| <aaa-allocated-ip ipv4, ipv6 | | IPAddress | + | IP- | | |
| <ipv4 | | IPv4Address | | IPv4- | | |
| 6 | ALLOCATED_IPV4 | OCTET STRING (SIZE (4)) | + | IP- (v4-) | IP_ACC_* | ALLOCATED_IPV4 |
| ipv4> | | | | | | |
| <ipv6 | | IPv6Address | | IPv6- | | |
| 7 | ALLOCATED_IPV6 | OCTET STRING (SIZE (16)) | + | IP- (v6-) | | 6 () |
| ipv6> | | | | | | |
| aaa-allocated-ip> | | | | | | |
| 8 | USER_NAME | UTF8String SIZE (1 .. 64)) | + | () | IP_ACC_* | LOGIN |
| 9 | CONNECT_TYPE | INTEGER (0 .. 65535) | + | RFC1700 TCP/UDP | IP_ACC_* | CONNECT_TYPE (`0`) |
| 10 | CALLING_NUMBER | UTF8String (SIZE (2 .. 18)) | + | | IP_ACC_* | CALLING_NUMBER (``) |
| 11 | CALLED_NUMBER | UTF8String (SIZE (2 .. 18)) | + | | IP_ACC_* | CALLED_NUMBER (``) |
| <aaa-nas ipv4, ipv6 | | NetworkPeerInfo | + | IP-/ NAS- | | |
| <ipv4 | | IPv4Address | | IPv4- | | |
| 12 | NAS_IPV4 | OCTET STRING (SIZE (4)) | + | IP-(v4) NAS- | IP_ACC_* | NAS_IPV4 |
| ipv4> | | | | | | |
| <ipv6 | | IPv6Address | | IPv6- | | |
| 13 | NAS_IPV6 | OCTET STRING (SIZE (16)) | + | IP-(v6) NAS- | | 12 () |
| ipv6> | | | | | | |
| 14 | NAS_IP_PORT | OCTET STRING (SIZE (2)) | - | IP- NAS- | | () |

| | | | | | | |
|---|-------------------|---------------------------------|---|-------------------------|----------|-------------|
| <aaa-location-end mobile-location, wireless-location | | Location | - | , () | | |
| <mobile-location | | MobileLocation | | | | |
| 32 | LAC_END | INTEGER (0 .. 65535) | + | , () | | () |
| 33 | CELL_END | INTEGER (0 .. 4294967295) | + | , () () | | () |
| 34 | TA_END | INTEGER (0 .. 63) | - | , () () | | () |
| mobile-location> | | | | | | |
| <wireless-location | | WirelessLocation | | | | |
| 35 | WL_CELL_END | UTF8String (SIZE (1 .. 64)) | + | (WirelessLocation) | IP_ACC_* | WL_CELL_END |
| 36 | WL_MAC_END | OCTET STRING (SIZE (6)) | + | MAC- (WirelessLocation) | IP_ACC_* | WL_MAC_END |
| wireless-location> | | | | | | |
| aaa-location-end> | | | | | | |
| 37 | PHONE_CARD_NUMBER | NumericString (SIZE (20)) | - | | | () |
| 38 | IMSI | NumericString (SIZE (10 .. 18)) | - | IMSI | | () |
| 39 | IMEI | NumericString (SIZE (10 .. 18)) | - | (GSM) | | () |
| 40 | ESN | NumericString (SIZE (10 .. 18)) | - | (CDMA) | | () |
| 41 | POOL_NUMBER | UTF8String (SIZE (2 .. 18)) | - | | | () |