

# Billion Softswitch. External Database Structure

**Table BSS\_CALLS\_STATUS**

| <b>Description:</b>                    |                  |   |                             |
|--|------------------|---|-----------------------------|
| Contains current calls status snapshot |                  |   |                             |
| <b>Column name</b>                     | <b>Data type</b> | <b>Column description</b>                         | <b>Indexing recommended</b> |
| CALL_ID                                | char             | Call ID   | yes                         |
| PARTITION_ID                           | int              | Partition ID                                      |                             |
| SETUP_TIME                             | datetime         | Setup time  |                             |
| ALERTING_TIME                          | datetime         | Alerting time                                     |                             |
| CONNECT_TIME                           | datetime         | Connect time                                      |                             |
| A_NUMBER_SRC                           | char             | A-number received                                 |                             |
| A_NUMBER_DST                           | char             | A-number sent                                     |                             |
| ORIGINATOR_ID                          | int              | Originator ID                                     |                             |
| ORIGINATOR_PROT                        | int              | Originator's protocol: 1 – H323, 2 – SIP          |                             |
| ORIGINATOR_SIG                         | char             | Originator's signalling IP-address                |                             |
| ORIGINATOR_RTP                         | char             | Originator's media IP-address                     |                             |
| ORIGINATOR_CODECS                      | char             | Originator's codecs                               |                             |
| B_NUMBER_SRC                           | char             | B-number received                                 |                             |
| B_NUMBER_DST                           | char             | B-number sent                                     |                             |
| TERMINATOR_ID                          | int              | Terminator ID                                     |                             |
| TERMINATOR_PROT                        | int              | Terminator's protocol: 1 – H323, 2 – SIP, 3 - IVR |                             |

|                          |      |   |  |
|--------------------------|------|---|--|
| TERMINATOR_SIG           | char | Terminator's signalling ip-address  |  |
| TERMINATOR_RTP           | char | Terminator's media IP-address   |  |
| TERMINATOR_CODECS        | char | Terminator's codecs   |  |
| MEDIA_PROXY              | int  | Media proxy flag: None = 0, Absent = 1, Transparent = 2, Transcoding = 3  |  |
| STATE                    | int  | Current state: Unknown = 0, IVR = 1, Routing = 2, Dialing = 3, Alerting = 4, Connected = 5, Transferring = 6, PlayingExhaustedMoneyMessage = 7, Disconnecting = 8, Disconnected = 9 |  |
| ROUTE_ID                 | int  | Route ID  |  |
| PURCHASER_ID             | int  | Customer-purchaser ID   |  |
| PURCHASER_TARIFF_ID      | int  | Purchaser tariff ID   |  |
| PURCHASER_TARIFF_PLAN_ID | int  | Purchaser tariff plan ID  |  |
| SELLER_PLAN_ID           | int  | Customer-seller ID  |  |
| SELLER_TARIFF_ID         | int  | Seller tariff ID  |  |
| SELLER_TARIFF_PLAN_ID    | int  | Seller tariff plan ID   |  |

**Table BSS\_CDRS**

**Description:**

Contains Call Data Record (CDR) information

| Column name | Data type | Column description | Indexing recommended |
|-------------|-----------|--------------------|----------------------|
| CDR_ID      | char      | Call ID            | yes                  |

|                               |          |                                  |     |
|-------------------------------|----------|----------------------------------|-----|
| PURCHASER_ID                  | int      | Customer-purchaser ID            |     |
| PURCHASER_TARIFF_PL<br>AN_ID  | int      | Purchaser tariff plan ID         |     |
| PURCHASER_TARIFF_ID           | int      | Purchaser tariff ID              |     |
| CALLING_NUMBER                | char     | A-number                         |     |
| CALLING_IP                    | char     | Caller IP-address                |     |
| CALLING_ID                    | int      | Calling Endpoint ID              |     |
| CALLED_NUMBER                 | char     | B-number                         |     |
| CALLED_NUMBER_FOR<br>_BILLING | char     | B-number for billing             |     |
| CALLED_IP                     | char     | Called IP-address                |     |
| CALLED_ID                     | int      | Called Endpoint ID               |     |
| SETUP_TIME                    | datetime | Setup time                       | yes |
| ALERTING_TIME                 | datetime | Alerting time                    |     |
| CONNECT_TIME                  | datetime | Connect time                     |     |
| TRANSFER_TIME                 | datetime | RTP-trasfer starting<br>time     |     |
| DISCONNECT_TIME               | datetime | Call end time                    |     |
| ELAPSED_TIME                  | int      | Elapsed time, sec.               |     |
| BYTES_INPUT                   | int      | Volume of received<br>data       |     |
| BYTES_OUTPUT                  | int      | Volume of sent data              |     |
| REASON                        | char     | End call reason in BSS<br>format |     |
| IFACE                         | char     | Used network adapter             |     |
| CALLS_NUMBER                  | int      | Number of concurrent<br>calls    |     |
| Q931_REASON                   | int      | Q931 call end reason             |     |

|                        |       |  |  |
|------------------------|-------|--|--|
| SOLD                   | float | Sold amount  |  |
| PURCHASED              | float | Purchase amount  |  |
| SELLER_ID              | int   | Selling customer ID  |  |
| SELLER_TARIFF_PLAN_ID  | int   | Seller tariff plan ID  |  |
| SELLER_TARIFF_ID       | int   | Seller tariff ID   |  |
| REAL_CALLING_NUMBER    | char  | Real A-number  |  |
| REAL_CALLED_NUMBER     | char  | Real B-number  |  |
| CALLING_RTP_IP         | char  | RTP IP-address of calling party  |  |
| CALLED_RTP_IP          | char  | RTP IP-address of called party   |  |
| CALLING_CODECS         | char  | Codecs of calling party  |  |
| CALLED_CODECS          | char  | Codecs of called party   |  |
| ROUTE_ID               | int   | Route ID   |  |
| SIP_REASON             | int   | SIP call end reason  |  |
| SIP_REASON_DESCRIPTION | char  | SIP end call reason description  |  |
| MEDIA_INFO             | char  | Format:<br>MEDIA_PROXY;orig:TRANSFER_TIME,PACKETS_ALL,PACKETS_LOST,JITTER[,dtmfFrom:METHHOD,COUNT][,dtmfTo:METHHOD,COUNT];<br>term:TRANSFER_TIME,PACKETS_ALL,PACKETS_LOST,JITTER[,dtmfFrom:METHHOD,COUNT][,dtmfTo:METHHOD,COUNT][,t38:PACKETS] |  |
| PARTITION_ID           | int   | Partition ID   |  |

## Table BSS\_CUSTOMERS

| <b>Description:</b>                    |           |                                       |                      |
|--|-----------|---------------------------------------|----------------------|
| Contains list of customers for billing |           |                                       |                      |
| Column name                            | Data type | Column description                    | Indexing recommended |
| CUST_IDENT                             | int       | Customer ID                           | yes                  |
| ACTIVE                                 | int       | Customer is active                    | yes                  |
| DESCRIPTION                            | varchar   | Customer name                         | yes                  |
| BALANCE                                | float     | Current balance                       |                      |
| BALANCE_CONTROL                        | int       | BSS controls balance of this customer |                      |
| PURCHASE_TARIFF_PLAN_ID                | int       | ID of tariff plan for purchase        |                      |
| SALE_TARIFF_PLAN_ID                    | int       | ID of tariff plan for sale            |                      |
| CUSTOMER_WEB_LOGIN                     | varchar   | User name for self-service page       |                      |
| CUSTOMER_WEB_PASSWORD                  | varchar   | Password for self-service page        |                      |
| PARTITION_ID                           | int       | Partition ID                          |                      |

## Table BSS\_ENDPOINT\_PROPERTIES

| <b>Description:</b>                       |           |   |                      |
|---|-----------|---|----------------------|
| Contains endpoint properties for any role |           |   |                      |
| Column name                               | Data type | Column description                                    | Indexing recommended |
| ENDPOINT_IDENT                            | int       | Endpoint ID   | yes                  |
| ENDPOINT_TYPE                             | int       | 1-originator, 2-subscriber, 4-terminator, 8-registrar |                      |
| CUSTOMER_ID                               | int       | Billing customer ID                                   |                      |
| DESCRIPTION                               | varchar   | Endpoint description                                  |                      |

|                               |       |   |     |
|-------------------------------|-------|---|-----|
| ENDPOINT_ACCOUNT              | vchar | Endpoint account  | yes |
| ENDPOINT_LOGIN                | vchar | Endpoint login  |     |
| ENDPOINT_PASSWORD             | vchar | Endpoint password   |     |
| SIMULTANEOUS_CALLS_LIMITATION | int   | Maximal number of concurrent calls (0 - no limit)   |     |
| CALLS_PER_SECOND_LIMITATION   | int   | Maximal number of calls per second increase (0 - no limit)  |     |
| PROXY_MEDIA_MODE              | int   | 0-Not Proxy, 1-Proxy Always, 2-Proxy From Different Net   |     |
| PERMIT_TRANSCODING            | int   | 0-no, 1-yes   |     |
| CODECS_LIMITATION             | int   | 0-None, 1-Include only selected, 2-Exclude all selected, 3-Contains only selected                           |     |
| CODECS                        | char  | Comma-separated list of codecs  |     |
| PARTITION_ID                  | int   | Partition ID  |     |
| MAX_CALL_DURATION             | int   | Maximal call duration in minutes (0 - no limit)   |     |
| ENDPOINT_LANGUAGE             | char  | Endpoint language (for IVR folder selection)  |     |
| SYMMETRIC_RTP                 | int   | 1 - sending port must be the same as receiving port, 0 - sending port may not be the same as receiving port |     |
| RECORD_CALL                   | int   | Record calls (0 - no, 1 - yes)  |     |

**Table BSS\_ENDPOINT\_ORIGINATION\_PROPERTIES**

| <b>Description:</b>                              |                  |  |                             |
|--|------------------|--|-----------------------------|
| Contains endpoint properties for originator role |                  |  |                             |
| <b>Column name</b>                               | <b>Data type</b> | <b>Column description</b>  | <b>Indexing recommended</b> |
| ENDPOINT_ID                                      | int              | Endpoint ID  | yes                         |
| CALLING_NUMBER_LIMITATION                        | int              | 0-None, 1-Include only from list, 2-Exclude all from list; list in BSS_LIMITATION with LIMIT_TYPE=0  |                             |
| CALLED_NUMBER_LIMITATION                         | int              | 0-None, 1-Include only from list, 2-Exclude all from list; list in BSS_LIMITATION with LIMIT_TYPE=1  |                             |
| RING_BACK_GENERATION                             | int              | 0- not generate, 1-as other log, 2 - generate  |                             |
| TERMINATOR_RING_BACK_MODE                        | int              | 0- ignore, pass the same codec, 2 - pas all codecs   |                             |
| ALERTING_MODE                                    | int              | 0-Alerting As Is, 1-Generate Alerting before Progress, 2-Use Alerting instead of Progress, 3-Forbid Alerting after Progress, 4-Generate Alerting before OK |                             |
| PLAY_MESSAGE_TO_CALLER                           | int              | 0-never, 1-always, 2-without ring back   |                             |
| Q931_CALL_END_REASON_REPLACEMENT                 | int              | -1 - don't replace, otherwise - code of Q931 reason  |                             |
| FORBID_THE_SAME_A_AND_B_NUMBERS                  | int              | 0-no, 1-yes  |                             |
| USE_DISPLAY_NAME_A_S_CALLING_NUMBER              | int              | 0-no, 1-yes  |                             |

|              |     |               |  |
|--------------|-----|---------------|--|
| MAX_PROGRESS | int | -1 - no limit |  |
|--------------|-----|---------------|--|

### Table BSS\_ENDPOINT\_TERMINATION\_PROPERTIES

| <b>Description:</b>                              |           |   |                      |
|--|-----------|---|----------------------|
| Contains endpoint properties for terminator role |           |   |                      |
| Column name                                      | Data type | Column description  | Indexing recommended |
| ENDPOINT_ID                                      | int       | Endpoint ID   | yes                  |
| CALLING_NUMBER_LIMITATION                        | int       | 0-None, 1-Include only from list, 2-Exclude all from list; list in BSS_LIMITATION with LIMIT_TYPE=0 |                      |
| CALLED_NUMBER_LIMITATION                         | int       | 0-None, 1-Include only from list, 2-Exclude all from list; list in BSS_LIMITATION with LIMIT_TYPE=0 |                      |
| CALL_END_CAUSES_FOR_STOP_ROUTING_CORRECTION      | char      | Corrections of general end call reasons   |                      |
| PREFERED_CODECS                                  | char      | Preferred list of codecs divided by comma   |                      |
| G729_EQUALS_G729A                                | int       | 0-no, 1-yes   |                      |
| INITIAL_DTMF                                     | char      | DTMF-string that will be sent to terminator after establishing connection                           |                      |
| TIME_LIMIT                                       | int       | Total time limit  |                      |
| TIME_LIMIT_STEP                                  | int       | Total time limit step: 0 - seconds, 1 - minutes   |                      |

### Table BSS\_ENUM\_PROPERTIES

|                     |  |  |  |
|---------------------|--|--|--|
| <b>Description:</b> |  |  |  |
| ENUM Properties     |  |  |  |



| Column name   | Data type | Column description              | Indexing recommended |
|---------------|-----------|---------------------------------|----------------------|
| ENUM_IDENT    | int       | ENUM properties ID              | yes                  |
| TERMINATOR_ID | int       | Terminator ID                   |                      |
| DNS_TIMEOUT   | int       | DNS timeout (-1 - no limit), ms |                      |

**Table BSS\_GROUPS**

| <b>Description:</b><br>Contains the list of groups |           |                    |                      |
|--|-----------|--------------------|----------------------|
| Column name  | Data type | Column description | Indexing recommended |
| GROUP_IDENT  | int       | Group ID           | yes                  |
| DESCRIPTION  | char      | Group name         |                      |

**Table BSS\_GROUPS\_OF\_ENDPOINTS**

| <b>Description:</b><br>Contains bindings between groups and endpoints |           |                    |                      |
|---|-----------|--------------------|----------------------|
| Column name   | Data type | Column description | Indexing recommended |
| ENDPOINT_ID   | int       | Endpoint ID        | yes                  |
| GROUP_ID  | int       | Group ID           | yes                  |

**Table BSS\_H323\_PROPERTIES**

| <b>Description:</b><br>Contains H323 properties of endpoint |           |                    |                      |
|---|-----------|--------------------|----------------------|
| Column name   | Data type | Column description | Indexing recommended |
| ENDPOINT_ID   | int       | Endpoint ID        | yes                  |
| H245_TUNNELING  | int       | 0 - no, 1 - yes    |                      |
| FAST_START  | int       | 0 - no, 1 - yes    |                      |
| H245_IN_SETUP   | int       | 0 - no, 1 - yes    |                      |
| MEDIA_WAIT_FOR_CO   | int       | 0 - no, 1 - yes    |                      |

|                         |     |  |  |
|-------------------------|-----|--|--|
| NNECT                   |     |  |  |
| TERMINATE_ON_TCS_REJECT | int | 0 - no, 1 - yes  |  |
| PROGRESS_INDICATOR      | int | Not Set (0), ProgressNotEndToEndISDN (1), ProgressDestinationNonISDN (2), ProgressOriginNotISDN (3), ProgressReturnedToISDN (4), ProgressServiceChange (5), ProgressInbandInformationAvailable (8) |  |
| NUMBER_PLAN             | int | Unknown (0), E.164 ISDN/telephony (1), X.121 Data (2), F.69 Telex (3), National (4), Private (5)   |  |
| NUMBER_TYPE             | int | Unknown (0), International (1), National (2), Network Specific (3), Subscriber (4), Abbreviated (5)  |  |
| NUMBER_PRESENTATION     | int | Not Set (-1), Presentation Allowed (0), Presentation Restricted (1), Number not Available due to Networking (2)  |  |
| NUMBER_SCREENING        | int | Not Set (-1), User-Provided not Screened (0), User-Provided Verified and Passed (1), User-Provided Verified and Failed (2), Network Provided(3)  |  |

|                |      |  |  |
|----------------|------|--|--|
| DTMF_MODE      | int  | Auto=0, RFC2833=1,<br>Q931Keypad=2,<br>H245String=3,<br>H245Signal=4 |  |
| NET_INTERFACES | char | List of net interfaces<br>working with H323                          |  |

**Table BSS\_IVR\_PROPERTIES**

| <b>Description:</b>                 |           |                                   |                      |
|-------------------------------------|-----------|-----------------------------------|----------------------|
| Contains IVR properties of endpoint |           |                                   |                      |
| Column name                         | Data type | Column description                | Indexing recommended |
| ENDPOINT_ID                         | int       | Endpoint ID                       | yes                  |
| ALERTING_TIME                       | int       | Pause before answer in<br>seconds |                      |
| USE_PROGRESS_INSTEA<br>D_OF_OK      | int       | 0 - no, 1 - yes                   |                      |

**Table BSS\_LIMITATIONS**

| <b>Description:</b>  |           |  |                      |
|--|-----------|--|----------------------|
| Contains various limitations values for routes and endpoints |           |  |                      |
| Column name  | Data type | Column description                       | Indexing recommended |
| ENDPOINT_ID  | int       | Endpoint ID                              | yes                  |
| ROUTE_ID   | int       | Route ID                                 | yes                  |
| LIMIT_TYPE   | int       | 0-A number, 1-B<br>number, 2-subprefixes | yes                  |
| LIMIT_VALUE  | char      | Limit value                              |                      |

**Table BSS\_NUMBER\_TRANSLATORS**

| <b>Description:</b>   |           |                    |                      |
|---|-----------|--------------------|----------------------|
| Contains number translation rules for various numbers for endpoints |           |                    |                      |
| Column name   | Data type | Column description | Indexing recommended |

|                |      |   |     |
|----------------|------|---|-----|
| ENDPOINT_ID    | int  | Endpoint ID   | yes |
| NUMTRANS_TYPE  | int  | 0-A name for origination, 1-A number for origination, 2-B number for origination, | yes |
| NUMTRANS_VALUE | char | Number translation rule   |     |
| SORTER         | int  | Sorting order   |     |

**Table BSS\_ORIGINATORS**

| <b>Description:</b><br>Contains list of riginators |           |                      |                      |
|--|-----------|----------------------|----------------------|
| Column name  | Data type | Column description   | Indexing recommended |
| ORIGINATOR_IDENT                                   | int       | Originator ID        | yes                  |
| ENDPOINT_ID  | int       | Endpoint ID          | yes                  |
| ACTIVE   | int       | Originator is active | yes                  |
| PROTOCOL   | int       | 0-Any, 1-H323, 2-SIP | yes                  |
| USE_CALLING_NUMBER_INSTEAD_OF_CUSTOMER             | int       | 0-no, 1-yes          |                      |

**Table BSS\_ORIGINATOR\_IP\_ADDRESSES**

| <b>Description:</b><br>Contains list of ip-addresses for originator |           |                    |                      |
|---|-----------|--------------------|----------------------|
| Column name   | Data type | Column description | Indexing recommended |
| ORIGINATOR_ID   | int       | Originator ID      | yes                  |
| IP_ADDRESS  | char      | IP-address         | yes                  |

**Table BSS\_REGISTRARS**

|  |  |  |  |
|--|--|--|--|
| <b>Description:</b><br>Contains list of registrars |  |  |  |
|--|--|--|--|

| Column name     | Data type | Column description  | Indexing recommended |
|-----------------|-----------|---------------------|----------------------|
| REGISTRAR_IDENT | int       | Registrar ID        | yes                  |
| ENDPOINT_ID     | int       | Endpoint ID         | yes                  |
| ACTIVE          | int       | Registrar is active | yes                  |
| IP_ADDRESS      | varchar   | IP-address          | yes                  |
| PROTOCOL        | int       | 0-RAS, 1-SIP        |                      |

**Table BSS\_REGISTRARS\_STATUS\_SNAPSHOT**

| <b>Description:</b>                         |           |  |                      |
|---|-----------|--|----------------------|
| Contains snapshot of statuses on registrars |           |  |                      |
| Column name                                 | Data type | Column description                                   | Indexing recommended |
| REGISTRAR_ID                                | int       | Registrar ID   | yes                  |
| START_TIME                                  | datetime  | Snapshot datetime                                    |                      |
| TIME_TO_LIVE                                | datetime  | Time to live   |                      |
| TYPE  | int       | 0 - BSS, 1 - subscriber                              |                      |
| STATUS                                      | int       | 0 - unknown, other - response from server (200 - ok) |                      |
| STATUS_SIP_DESCRIPTION                      | char      | Description of SIP status                            |                      |

**Table BSS\_REGISTRARS\_STATUS\_HISTORY**

| <b>Description:</b>                        |           |                         |                      |
|--|-----------|-------------------------|----------------------|
| Contains history of statuses on registrars |           |                         |                      |
| Column name                                | Data type | Column description      | Indexing recommended |
| REGISTRAR_ID                               | int       | Registrar ID            | yes                  |
| REGISTRATION_TIME                          | datetime  | Registration time       |                      |
| TIME_TO_LIVE                               | datetime  | Time to live            |                      |
| TYPE                                       | int       | 0 - BSS, 1 - subscriber |                      |

|                        |      |  |  |
|------------------------|------|--|--|
| STATUS                 | int  | 0 - unknown, other - response from server (200 - ok) |  |
| STATUS_SIP_DESCRIPTION | char | Description of SIP status                            |  |

### Table BSS\_ROUTE

| <b>Description:</b>          |           |   |                      |
|------------------------------|-----------|---|----------------------|
| Contains routes              |           |   |                      |
| Column name                  | Data type | Column description  | Indexing recommended |
| ROUTE_IDENT                  | int       | Route ID  | yes                  |
| ACTIVE                       | int       | Route is active   | yes                  |
| DESCRIPTION                  | varchar   | Route name  |                      |
| PREFIX                       | char      | Prefix  | yes                  |
| SUBPREFIXES_MODE             | int       | Subprefixes mode: 0-None, 1-Include only, 2-Exclude all of                                  |                      |
| ANI_MODE                     | int       | ANI mode: 0-None, 1-Include one of, 2-Exclude all of  |                      |
| NUMBER_TRANSLATION_RULE      | char      | Number translation rule   |                      |
| CALL_MODE                    | int       | 0-None, 1-Round Robin, 2-By Load, 3-By Availability, 4-By Total Time Limit, 5-By Least Cost |                      |
| EXCLUDE_EXHAUSTED_TIME_LIMIT | int       | 0 - no, 1 - yes   |                      |
| LOSS_BLOCKING                | int       | Loss blocking (0 - no, 1 - yes)   |                      |
| EXCLUDE_EXHAUSTED_TIME_LIMIT | int       |   |                      |

|                               |     |   |  |
|-------------------------------|-----|---|--|
| BLOCK_TERMINATOR_WITHOUT_RATE | int | Block terminator without rate                     |  |
| PAUSE_BETWEEN_CYCLES          | int | Pause between cycles in msec.                     |  |
| NUMBER_OF_CYCLES              | int | Number of cycles                                  |  |
| SIMULTANEOUS_CALLS_LIMITATION | int | Maximal number of concurrent calls (0 - no limit) |  |
| STOP_HUNTING                  | int | Stop hunting                                      |  |
| PARTITION_ID                  | int | Partition ID                                      |  |

**Table BSS\_ROUTES\_ENDPOINTS**

| <b>Description:</b>                       |           |   |                      |
|---|-----------|---|----------------------|
| Contains bindings of routes and endpoints |           |   |                      |
| Column name                               | Data type | Column description  | Indexing recommended |
| ROUTE_ID                                  | int       | Route ID  | yes                  |
| ENDPOINT_ID                               | int       | Endpoint ID   | yes                  |
| SIMULTANEOUS_CALLS_LIMITATION             | int       | Maximal number of concurrent calls for this pair route-endpoint |                      |

**Table BSS\_ROUTES\_TERMINATORS**

| <b>Description:</b>                     |           |   |                      |
|---|-----------|---|----------------------|
| Contains list of terminators for routes |           |   |                      |
| Column name                             | Data type | Column description                                    | Indexing recommended |
| ROUTE_ID                                | int       | Route ID  | yes                  |
| SORTER                                  | int       | Order number  | yes                  |
| TERMINATOR_ID                           | int       | Terminator ID   | yes                  |
| NUMBER_OF_TRYINGS                       | int       | Maximal number of attempts to call to this terminator |                      |

**Table BSS\_SIP\_PROPERTIES**

| <b>Description:</b>                      |           |  |                      |
|--|-----------|--|----------------------|
| Contains BSS SIP properties for endpoint |           |  |                      |
| Column name                              | Data type | Column description   | Indexing recommended |
| ENDPOINT_ID                              | int       | Endpoint ID  | yes                  |
| AUTH_METHOD                              | int       | ProxyAuthWWW=1, ProxyAuthProxy=2, UnauthWWW=3, UnauthProxy=4 |                      |
| TRANSPORT                                | int       | TCP=0, UDP=1   |                      |
| CALL_END_REASON_REPLACEMENT              | int       | End reason code that will be sent instead of original code   |                      |
| DOMAIN                                   | char      | Domain   |                      |
| USE_ACCOUNT_INSTEAD_OF_ANI               | int       | Use account instead of A-number (0-no, 1-yes)                |                      |
| FETCH_CALLED_NUMBER_FROM                 | int       | ToField=0, InviteHeader=1                                    |                      |
| ADDRESS_IN_FROM_FIELD                    | int       |  |                      |
| DTMF_MODE                                | int       | 0-Autom 1-RFC2833, 2-INFO, 3-INFORelay                       |                      |
| NET_INTERFACES                           | char      | List of network interfaces for SIP                           |                      |

**Table BSS\_SUBSCRIBERS**

| <b>Description:</b>          |           |                    |                      |
|------------------------------|-----------|--------------------|----------------------|
| Contains list of subscribers |           |                    |                      |
| Column name                  | Data type | Column description | Indexing recommended |
| SUBSCRIBER_IDENT             | int       | Subscriber ID      | yes                  |
| ENDPOINT_ID                  | int       | Endpoint ID        | yes                  |



|                             |     |   |     |
|-----------------------------|-----|---|-----|
| ACTIVE                      | int | Subscriber is active                      | yes |
| USE_ACCOUNT_FOR_TERMINATION | int | Use account for termination (0-no, 1-yes) |     |
| PERMIT_REDIRECTION          | int | Permit redirection (0-no, 1-yes)          |     |

**Table BSS\_SUBSCRIBERS\_ALIASES**

| <b>Description:</b><br>Contains aliases for subscribers |           |                    |                      |
|---|-----------|--------------------|----------------------|
| Column name   | Data type | Column description | Indexing recommended |
| SUBSCRIBER_ID   | int       | Subscriber ID      | yes                  |
| SUBSCRIBER_ALIAS  | varchar   | Subscriber alias   |                      |

**Table BSS\_SUBSCRIBERS\_REGISTRARS**

| <b>Description:</b><br>Contains bindings of subscribers to registrars |           |                    |                      |
|---|-----------|--------------------|----------------------|
| Column name   | Data type | Column description | Indexing recommended |
| SUBSCRIBER_ID   | int       | Subscriber ID      | yes                  |
| REGISTRAR_ID  | int       | Registrar ID       | yes                  |

**Table BSS\_SUBSCRIBERS\_REGISTRATION\_STATUS\_SNAPSHOT**

| <b>Description:</b><br>Contains snapshot of subscriber registration |           |  |                      |
|---|-----------|--|----------------------|
| Column name   | Data type | Column description                             | Indexing recommended |
| SUBSCRIBER_ID   | int       | Subscriber ID                                  | yes                  |
| START_TIME  | datetime  | Snapshot time                                  |                      |
| TIME_TO_LIVE  | datetime  | Time to live                                   |                      |
| TYPE  | int       | 0 - originator, 1 - subscriber, 2 - terminator |                      |

|            |      |                             |  |
|------------|------|-----------------------------|--|
| STATUS     | int  | Status (0-online,1-offline) |  |
| IP_ADDRESS | char | IP-address                  |  |

**Table BSS\_SUBSCRIBERS\_REGISTRATION\_STATUS\_HISTORY**

| <b>Description:</b>                         |           |  |                      |
|---|-----------|--|----------------------|
| Contains history of subscriber registration |           |  |                      |
| Column name                                 | Data type | Column description                             | Indexing recommended |
| SUBSCRIBER_ID                               | int       | Subscriber ID                                  | yes                  |
| REGISTRATION_TIME                           | datetime  | Registration time                              |                      |
| TIME_TO_LIVE                                | datetime  | Time to live                                   |                      |
| TYPE  | int       | 0 - originator, 1 - subscriber, 2 - terminator |                      |
| STATUS                                      | int       | Status (0-online,1-offline)                    |                      |
| IP_ADDRESS                                  | char      | IP-address                                     |                      |

**Table BSS\_TARIFF\_PLANS**

| <b>Description:</b>           |           |  |                      |
|-------------------------------|-----------|--|----------------------|
| Contains list of tariff plans |           |  |                      |
| Column name                   | Data type | Column description                             | Indexing recommended |
| TARIFF_PLAN_IDENT             | int       | Tariff plan ID                                 | yes                  |
| DESCRIPTION                   | varchar   | Tariff plan description                        |                      |
| ACTIVE                        | int       | Tariff plan is active                          | yes                  |
| FREE_TIME                     | int       | Nonbillable time in the beggining of call, sec |                      |
| BILLING_STEP                  | int       | Billing step, sec.                             |                      |

**Table BSS\_TARIFFES**

|                     |
|---------------------|
| <b>Description:</b> |
|---------------------|

| Contains tariffs for tariff plans |           |  |                      |
|-----------------------------------|-----------|--|----------------------|
| Column name                       | Data type | Column description                                     | Indexing recommended |
| TARIFF_IDENT                      | int       | Tariff record ID                                       | yes                  |
| TARIFF_PLAN_ID                    | int       | Tariff plan ID   | yes                  |
| ACTIVE                            | int       | Tariff is active                                       |                      |
| DESCRIPTION                       | varchar   | Tariff description                                     |                      |
| PREFIX                            | char      | Prefix   | yes                  |
| TIME_ZONE                         | int       | Time zone in hours, if it != [-12, 13] then it ignored |                      |
| START_TIME                        | datetime  | Beginning of period                                    |                      |
| END_TIME                          | datetime  | End of period  |                      |
| DAY                               | int       | Weekday (1=sunday). For example, 23456 - workdays      |                      |
| TIME_OF_DAY_START                 | int       | Starting time of day                                   |                      |
| TIME_OF_DAY_END                   | int       | Ending time of day                                     |                      |
| RATE                              | float     | Rate of minute   |                      |
| MSG_RATE                          | float     | Rate of message  |                      |

**Table BSS\_PROPERTIES**

| <b>Description:</b>             |           |                    |                      |
|---------------------------------|-----------|--------------------|----------------------|
| Contains list of BSS properties |           |                    |                      |
| Column name                     | Data type | Column description | Indexing recommended |
| PROP_ID                         | varchar   | Property           | yes                  |
| PROP_VALUE                      | varchar   | Value              |                      |

**Table BSS\_TERMINATORS**

| <b>Description:</b> |  |  |  |
|---------------------|--|--|--|
|                     |  |  |  |

| Contains list of terminators |           |  |                      |
|------------------------------|-----------|--|----------------------|
| Column name                  | Data type | Column description   | Indexing recommended |
| TERMINATOR_IDENT             | int       | Terminator ID  | yes                  |
| ENDPOINT_ID                  | int       | Endpoint ID  | yes                  |
| ACTIVE                       | int       | Terminator is active   | yes                  |
| IP_ADDRESS_OR_NAME           | varchar   | IP address or file name  | yes                  |
| PROTOCOL                     | int       | 1-H323, 2-SIP, 3-IVR, 4-ENUM, 5-subscriber, 6-registrar RAS, 7-registrar SIP |                      |
| PERMIT_REDIRECTION           | int       | Permit redirection (0-no, 1-yes)   |                      |

**Table BSS\_BILLING\_PROPERTIES**

| <b>Description:</b>                              |           |  |                      |
|--|-----------|--|----------------------|
| Contains various billing properties for endpoint |           |  |                      |
| Column name                                      | Data type | Column description   | Indexing recommended |
| BILLING_IDENT                                    | int       | Unique ID  | yes                  |
| ENDPOINT_ID                                      | int       | Endpoint ID  | yes                  |
| AAA_MODE   | int       | 0-AAA, 1-AA, 2-A, 3-None, 4-FromConfig   |                      |
| LOGIN_MODE                                       | int       | 0-FromConfig, 1-AdminDefined, 2-Authentication, 3-Description, 4-CallingID, 5-CallingIP, 6-CutFromCalledID |                      |
| PASSWORD_MODE                                    | int       | 0-FromConfig, 1-AdminDefined, 2-Authentication, 3-Description, 4-CallingID, 5-CallingIP, 6-CutFromCalledID |                      |

|                                |      |                                   |  |
|--------------------------------|------|-----------------------------------|--|
| CALLED_NUMBER_TRANSLATION_MODE | int  | 0-FromConfig, 1-AdminDefined      |  |
| ADMIN_DEFINED_LOGIN            | char | Login defined by administrator    |  |
| ADMIN_DEFINED_PASSWORD         | char | Password defined by administrator |  |
| CALLING_IP                     | char |                                   |  |
| CALLED_NUMBER_PREFIX           | char |                                   |  |