OCS
V500R005C40U5

Charging Data Record Reference

Issue 02

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About This Document

Purpose

This document describes details about charging data records (CDRs).

This document provides guides to understand the basic concepts and terminology related to CDRs.

Intended Audience

This document is intended for:

- Installation and commissioning engineers
- Technical support engineers
- Service administrators

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
NOTICE	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results. NOTICE is used to address practices not related to personal injury.

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Symbol	Description
NOTE	Calls attention to important information, best practices and tips. NOTE is used to address information not related to personal injury, equipment damage, and environment deterioration.

Change History

Changes between document issues are cumulative. The latest document issue contains all the changes made in earlier issues.

Issue 01 (2017-02-24)

This issue is used for first office application (FOA).

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Contents

About This Document ii

1 Basic Concepts 1

2 Input CDRs for Offline Rating 3

2.1 Basic Information About Offline CDR Files 3

2.1.1 Offline CDR Storage Directories 3

2.1.2 Process of Generating Offline CDRs on the CBP 3

2.2 Offline CDR Files 6

2.2.1 w_abr CDR 6

2.2.2 w_smo CDR 16

2.2.3 GPRS CDR 27

2.2.4 TAPIN_VOICE CDR 41

2.2.5 TAPIN_SMS CDR 56

2.2.6 TAPIN_GPRS CDR 70

3 CDR Files Generated in the OCG 87

3.1 Basic Information About OCG CDR Files 87

3.1.1 CDR Storage Directories in OCG 87

3.1.2 Process of Generating offline CDRs in the OCG 88

3.1.3 File Name Format of OCG-Generated CDRs 88

3.1.4 Requirements on OCG-Generated CDR Files 89

3.1.5 Configuring the Function of Automatically Deleting CDRs by the OCG 90

3.1.6 Configuring the w_notify CDR 92

3.1.7 Configuring the w_cmb CDR 94

3.2 OCG-Generated CDR 95

3.2.1 w_abr CDR 96

3.2.2 w_smo CDR 107

4 Charging Output CDRs 118

4.1 Basic Information About Charging Output CDRs 118

4.1.1 Charging Output CDR Storage Directories 118

4.1.2 Process of Generating Charging Output CDRs 119

4.1.3 Content Format of a Charging Output CDR File 119

4.1.4 File Name Format of Charging Output CDRs 120

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4.1.5 Charging Output CDR Types 121
4.1.6 FU_MEASURE_ID Field Description 123
4.2 Charging Output CDR Files 124
4.2.1 Common Fields in a Charging Output CDR File 124
4.2.2 Extended Charging Service Information 191
4.2.2.1 Extended Charging Service Information in a Voice CDR 191
4.2.2.2 Extended Charging Service Information in an SMS CDR 209
4.2.2.3 Extended Charging Service Information in an MMS CDR 221
4.2.2.4 Extended Charging Service Information in a GPRS CDR 234
4.2.2.5 Extended Charging Service Information in a Recurring Charging CDR 248
4.2.2.6 Extended Charging Service Information in a Management Flow CDR 253
4.2.2.7 Extended Charging Service Information in the Content-based Charging Process 256
4.2.2.8 Extended Charging Service Information in a Resource Clearance CDR 263
4.2.2.9 Extended Charging Service Information in a First Time Activation CDR 263
4.2.2.10 Extended Charging Service Information in a Penalty CDR 266
4.3 Prepaid Transaction CDR Files 267
4.3.1 Recharge CDR 267
4.3.2 Transfer CDR 330
4.3.3 Adjustment CDR 392
4.3.4 Loan CDR 458

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1 Basic Concepts

This topic describes the basic concepts related to CDRs.

CDR

A CDR collects and records information about a charging event in a specific format. The information includes the call start time, call duration, and transmitted data amount. The CDR can be provided for the OCS to perform charging and settlement or for a subscriber as a service usage record.

If the OCS does not specify the charged party, it generates a CDR respectively for both the calling and called parties of the charging event. If the call duration reaches the CDR splitting threshold or there are multiple charged parties, the OCS generates multiple CDRs for the charging event.

CDRs are not generated for postpaid balance operations, including payment, transfer, and adjustment. If a site requires CDRs for postpaid balance operations, you can export the CDRs from the AR.

Complex Field

A complex field consists of inextensible simple fields and complex sub-fields. For example, if the **USAGE** complex field in CBP-generated CDRs consists of the **USAGE_MEASURE_ID**, **ACTUAL_USAGE**, **RATE_USAGE**, and **SERVICE_UNIT_TYPE** simple fields, the format of **USAGE** is {**USAGE_MEASURE_ID**,**ACTUAL_USAGE**,**RATE_USAGE**,**SERVICE_UNIT_TYPE**}.

Time

In this document, time-related CDR fields are recorded based on the UTC time unless otherwise stated.

Currency Unit

For fee-related CDR fields, the OCS converts the fee to the minimum currency unit and multiplies the result by an integer that represents the currency precision. To query the currency precision, choose **Unified System Management** > **Organization and Employee** > **Business Entity** and click the **Currency** tab of the corresponding BE. For example, if the

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currency precision is set to **1**, the OCS converts 1 euro to **1000** (1 x 100 x 10) before saving the amount to a CDR.

Reserved Field

When checking CDRs, you do not need to pay attention to fields that are reserved.

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2 Input CDRs for Offline Rating

About This Chapter

This topic describes the formats of CDR files that are sent from third-party systems, normalized by the Mediation, and then transferred to CBP for offline rating.

2.1 Basic Information About Offline CDR Files

This topic describes basic information such as the file storage directories of CDRs, the process in which the CBP performs rating on offline CDR files.

2.2 Offline CDR Files

This topic describes offline CDR and CBP bypass CDR files format.

2.1 Basic Information About Offline CDR Files

This topic describes basic information such as the file storage directories of CDRs, the process in which the CBP performs rating on offline CDR files.

2.1.1 Offline CDR Storage Directories

This topic describes the directories for storing offline CDR and bypass CDR files.

Directory for Storing Offline CDR Files to Be Rated

The CBPAdapter directory for storing offline CDR and bypass CDR files to be rated can be configured on the GUI. You can configure the directory based on the service during CDR preprocessing rule configuration on the **Billing Configuration** > **Rating and Charging** > **Event** > **Original Event** page, for example, set the offline CDR directory to **$CBP_CDRPATH/input/cbs/voice/scan_file**, set the bypass CDR directory to **${CBP_CDRPATH}/input/bypass**.

2.1.2 Process of Generating Offline CDRs on the CBP

The Mediation obtains offline CDR files from a third-party system or CBPAdapter, converts the file format, and uses the Secure File Transfer Protocol (SFTP) to send the CDR files to the CBP for rating.

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Process of Generating Bypass CDRs

If a fault (such as an internal fault, a network disconnection, or a performance bottleneck) occurs on the CBP or a project such as migration is being executed, the system needs to provide the capability of connecting and processing current services. To implement this capability, the system needs to enable bypass at the service message access end (CBPAdapter or OCG), records a bypass CDR, and performs rating and charging based on the CDR when the bypass ends.

Figure 2-1 shows the CBPAdapter bypass process.

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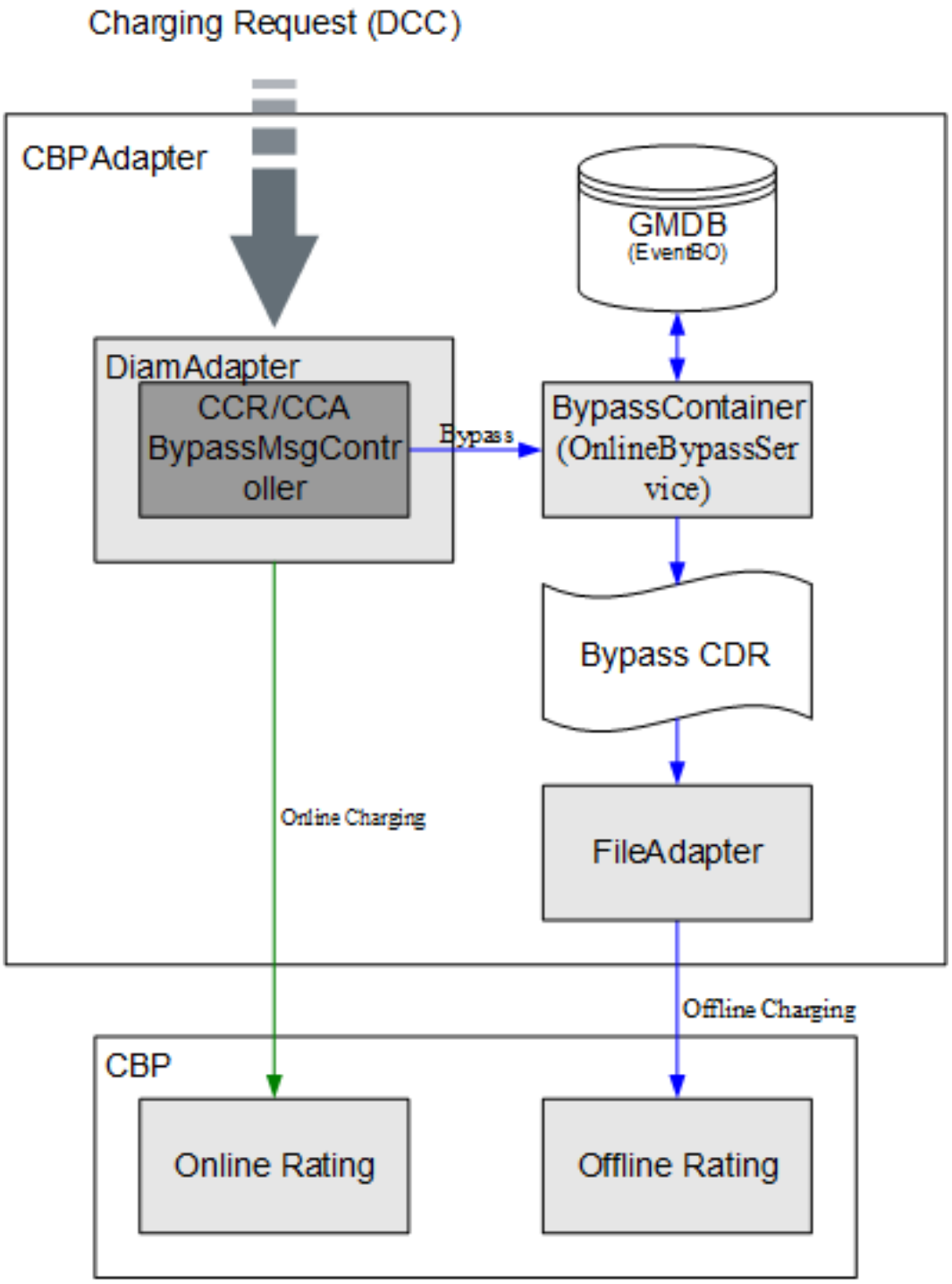
Figure 2-1 Bypass process



The process is as follows:

1. After receiving a DCC request (CCR message) or a charging response (CCA message) returned by the charging service, the DiameterAdapter schedules the CCR or CCA bypass control plug-in and determines whether to schedule the bypass service based on the processing result of the corresponding plug-in.

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2. The bypass service constructs a CCA message, sends it to the DiameterAdapter, and persists the session information into an EventBO in the RouteMDB before a session ends.
3. When a session ends, the bypass service generates bypass CDRs for the session and stores them in the **${CBP_CDRPATH}/input/bypass** directory. The CBPAdapter supports a rule engine, which can be used to configure the bypass CDR format.
4. The FileAdapter scans for bypass CDRs and sends them to the offline charging service of the CBP for offline charging.

Process of Processing Offline CDRs

The detailed process is described as follows:

1. The Mediation obtains offline CDR files from a third-party system, converts the file format, and uses the Secure File Transfer Protocol (SFTP) to send the CDR files to the offline CDR input directory **$CBP_CDRPATH/offline_file/scan_file** on the CBPAdapter.
2. The CBPAdapter moves the CDR files to the following directories according to the processing results:
   - **$CBP_CDRPATH/offline_file/backup_file**: backs up the offline CDR files that are successfully read.
   - **$CBP_CDRPATH/offline_file/error_file**: backs up the offline CDR files that fail to be read or those files that are not processed due to internal service invocation failure.
3. The BSBus of the CBPAdapter sends the CDRs to the CBP for offline rating.
4. The CBP stores the CDR files that are generated after rating to the **$CBP_CDRPATH/cdr/normal** directory.
5. The Mediation collects CDR files generated by the CBP and sends them to the cdr2db in the EDRDB. Then cdr2db imports, sorts, splits and accumulates the CDRs.

2.2 Offline CDR Files

This topic describes offline CDR and CBP bypass CDR files format.

2.2.1 w_abr CDR

This topic describes the format of offline voice CDR files sent from a third-party system (for example, MSC) and normalized by the Mediation.

CDR File Name Format

- w_abr_YYYYMMDD_Seqno.unl
- voicebypass_{APPNODEID}_{DATANODEID}_{BEID}_YYYYMMDDHHMMSS_Seqno.dat

Example: w_abr_20071012_0001.unl or voicebypass_000_601_00101_20150907235108_01048.dat

CDR Instance

Example of a w_abr CDR file name: w_abr_20141113_4345.unl

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91|0|503136112220055|00503136112220056|136112220055|136112220056|20141114172747|0|503136112220056|503136112220056|0|136112220055|0050301|706011384221622|0050301||||0|||0|0|||503503|0|20141115182746|60|0|20141115182746|-1|0||11111|||||||2|2||||||||w_abr_20141113_4345.unl|0|101||4|0||nocheck|nocheck|nocheck|

CDR Quantity Limit

The number of CDRs in a CDR file cannot be greater than 100 thousand because the CDR deduplication function must be supported by each input CDR file. If a special requirement on the maximum number is raised, change the maximum setting.

CDR File Format

Table 2-1 describes the fields in the w_abr (voicebypass) CDR.

Table 2-1 Fields in the w_abr (voicebypass) CDR file

SN	Field Name	Field Type	Description	Sample Value
1	ServiceKey	NUMBER[10]	Service key. This field identifies a traditional intelligent network service and has a fixed value of **91** for the OCS call service. This field cannot be left empty.	91
2	SubCosID	NUMBER[10]	ID of the primary offering subscribed by the subscriber. This field can be left empty.	0
3	Calling-Party-Address	VARCHAR2[20]	Calling number. If **NumFormatOfCalling** is set to **2**, the number formats are as follows: • Country code + MSISDN • Country code + Area code + PSTN This field cannot be left empty in most cases. This field can be left empty only in the scenario where the process of charging the called party is irrelevant to the calling party in the MT process. In this scenario, the calling number is not recorded in CDRs.	503136112220055
4	Called-Party-Address	VARCHAR2[20]	Called number. The number formats are as follows: • MSISDN • National prefix + MSISDN • National prefix + Area code + PSTN • International prefix + Country code + MSISDN	00503136112220056

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SN	Field Name	Field Type	Description	Sample Value
			• International prefix + Country code + Area code + PSTN This field can contain the prefix or infix of specific services. If **NumFormatOfCalled** is set to **0**, this field can be set to a called number in any of the preceding formats. If **NumFormatOfCalled** is set to **1**, this field can be set to a called number in the format *MSISDN*, *National prefix + MSISDN*, or *National prefix + Area code + PSTN*. If **NumFormatOfCalled** is set to **2**, this field can be set to a called number in the format *International prefix + Country code + MSISDN* or *International prefix + Country code + Area code + PSTN*. This field cannot be left empty.	
5	Calling-Party-NP	VARCHAR2[16]	NP prefix of the calling number. This field can be left empty. This field is reserved.	136112220055
6	Called-Party-NP	VARCHAR2[16]	NP prefix of the called number. This field is reserved. This field can be left empty.	136112220056
7	SSP-Time	VARCHAR2[14]	Timestamp reported by the SSP, which is in the time zone of the corresponding SSP. Format: YYYYMMDDhhmmss This field can be left empty.	20141114172747
8	MF-Indicator	NUMBER[10]	Call forwarding flag. The options are as follows: • **0**: not forwarded • **1**: forwarded This field cannot be left empty.	0
9	Real-Called-Number	VARCHAR2[20]	Actual called number. The number formats are as follows: • Country code + MSISDN • Country code + Area code + PSTN This field cannot be left empty.	503136112220056
10	Connect-Called-Number	VARCHAR2[20]	Called number that is connected. The value can be in any format that can be recognized by the MSC.	503136112220056

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SN	Field Name	Field Type	Description	Sample Value
			This field cannot be left empty.	
11	Charge-Flow-Type	NUMBER[10]	Charging process type. The options are as follows: • **0**: MO • **1**: MT • **3**: MF This field cannot be left empty.	0
12	Calling-Partys-Category	NUMBER[10]	Calling party category. For a call initiated by an operator, this field also specifies the service language. The value is obtained from the CAP_InitialDP.CallingPartysCategory parameter that is reported. For example, value **00001001** indicates that the calling party is a national operator. This field can be left empty.	136112220055
13	Calling-Vlr-Number	VARCHAR2[10]	VLR number of the area where the calling party visits. The VLR number is reported in an IDP message. If no value is reported, this field is left empty. In the MO process, if the OCS uses this field to analyze the visited area, this field cannot be left empty. If the OCS does not use this field to analyze the visited area, this field can be left empty. In the MT process, if the visited area does not need to be analyzed for the calling party, this field can be left empty. If **NumFormatOfOVLR** is set to **2**, this field can be set to a VLR number in the format *Country code* + *NDC* + *LSP*.	0050301
14	Calling-CellID	VARCHAR2[36]	Cell ID of the calling party. If the OCS does not need to analyze the visited area based on the cell ID, this field can be left empty. The format is Three-digit MCC + Two-digit MNC + Five-digit LAC + Five-digit cell ID, for example, **460002230320412**.	706011384221622
15	Called-Vlr-Number	VARCHAR2[10]	VLR number of the area where the called party visits. In the MO process, if the OCS uses this field to analyze the visited area, this field	0050301

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SN	Field Name	Field Type	Description	Sample Value
			cannot be left empty. If the OCS does not use this field to analyze the visited area, this field can be left empty. In the MT process, if the OCS uses this field to analyze the visited area, this field cannot be left empty. If the OCS does not use this field to analyze the visited area, this field can be left empty. If **NumFormatOfTVLR** is set to **2**, this field can be set to a VLR number in the format *Country code* + *NDC* + *LSP*.	
16	Called-CellID	VARCHAR2[36]	Cell ID of the called party. The format is Three-digit MCC + Two-digit MNC + Five-digit LAC + Five-digit cell ID, for example, **460002230320412**. This field can be left empty.	-
17	Original-Called-Party-Id	VARCHAR2[20]	Original called number. • In the MO process, this field is left empty. • In the MF process, this field records the original called number reported in an IDP message. The value can be in any format that can be recognized by the MSC. Generally, the OCS directly records the value in CDRs. This field can be left empty.	-
18	Additional-Calling-Party-Number	VARCHAR2[20]	Additional calling number. This field specifies the original calling number in the MF process and is generally left empty in other processes. The original calling number reported by the MSC is recorded and can be in any format. The OCS does not authenticate or process the value. This field can be left empty.	-
19	Bearer-Capability	VARCHAR2[10]	Bearer capability for connecting calls. Bearer capability connection type or transmission medium requirement on subscribers, which is reported in an IDP message. If video call, fax, and data services exist, this field specifies these special services. This field can be left empty. An empty	0

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SN	Field Name	Field Type	Description	Sample Value
			value indicates a common call.	
20	EventType-BCSM	NUMBER[10]	Event report. This field specifies the request report event type. This field can be left empty. This field is reserved.	-
21	Redirecting-Party-Id	VARCHAR2[20]	Redirected-to number, which is implemented through the number conversion function. This field indicates the redirected-to number in the MT process. If **NumFormatOfRoute** is set to **2**, the number formats are as follows: • International prefix + Country code + MSISDN • International prefix + Country code + Area code + PSTN This field can be left empty in offline CDRs. If this field is transferred, the OCS does not authenticate the value but directly records it to output CDRs.	-
22	Redirection-Information	VARCHAR2[36]	Redirection information. The value is the same as that of **Redirectingnumber** in IDP messages. The OCS does not authenticate the value. This field can be left empty.	0
23	Redirection-Reason	NUMBER[10]	Redirection reason, which is reported from the network side. For the GSM network, the options are as follows: • **0**: no call forwarding • **1**: user busy • **2**: no reply • **3**: call forwarding unconditional • **4**: others • **6**: mobile subscriber not reachable This field cannot be left empty. The default value is 0.	0
24	UE-IMSI	VARCHAR2[20]	IMSI of a subscriber. This field can be left empty.	-
25	CallReferenc	VARCH	Call reference number.	-

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SN	Field Name	Field Type	Description	Sample Value
	eNumber	AR2[128]	• On the CDMA network, this field records the **BillID** value. • On the GSM network, this field records the **CallReferenceNumber** value reported in an IDP message. • For a SIP call, this field records the **Call-ID** value reported in a SIP message. If an external system does not report the call reference number, the OCG generates one in the format YYYYMMDDhhmmss + Three-digit OCG ID + Four-digit automaton number. **NOTE** If the automaton number contains less than four digits, prefix the number with 0. If the automaton number contains more than four digits, obtain the last four digits. This field can be left empty.	
26	MSC-Address	VARCHAR2[20]	MSC address. If the OCS uses this field to analyze the visited area for the charged party, this field cannot be left empty. If the OCS does not use this field to analyze the visited area for the charged party, this field can be left empty. Format: International prefix + Country Code + NDC + LSP or Country code + NDC + LSP	503503
27	Time-Zone	NUMBER[10]	Time zone where the calling party locates. This field can be left empty. If this field is left empty, the time zone in the MSC of the subscriber's visited area is the same as that of the home server.	0
28	CallBeginTime	VARCHAR2[14]	Call start time. Format: YYYYMMDDhhmmss This field cannot be left empty.	20141115182746
29	CallDuration	NUMBER[10]	Call duration used for charging, in seconds. This field cannot be left empty.	60
30	SuccessACDuration	NUMBER[10]	Duration for which fees are deducted successfully, in seconds. This field cannot be left empty.	0
31	FailACDurat	NUMBE	Duration for which fees fail to be	20141115

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SN	Field Name	Field Type	Description	Sample Value
	ion	R[10]	deducted, in seconds. This field cannot be left empty.	182746
32	VPMNCallFlag	NUMBER[10]	Corporate call flag. The default value is **-1**. This field can be left empty. This field is reserved.	-1
33	CBEResultCode	NUMBER[10]	Error code sent from the CBP. This field can be left empty. This field is reserved.	0
34	DDS-Discount	NUMBER[10]	Dynamic discount. This field is valid only when the dynamic discount feature is enabled and the MSC determines the dynamic discount. The default value is **0**.	-
35	DiameterSessionID	VARCHAR2[128]	Diameter session ID. This field specifies the session ID for OCG-generated CDRs and is used for CDR audit. This field can be left empty.	11111
36	NPPrefix	VARCHAR2[10]	NP prefix of the called number. This field can be left empty. This field is reserved.	-
37	CalledHomeNetWork	VARCHAR2[10]	Home network code of the called party. This field can be left empty.	-
38	CallingPartyLRN	VARCHAR2[20]	This field is reserved. This field can be left empty.	-
39	CalledPartyLRN	VARCHAR2[20]	This field is reserved. This field can be left empty.	-
40	OpposeTenantID	NUMBER[10]	Home tenant ID of the called party. This field can be left empty. This field is reserved.	-
41	Service-Free-Indicator	NUMBER[10]	Free call flag. The options are as follows: • **0**: normal call • **1**: free call • **2**: directly connected call This field cannot be left empty.	-
42	NumFormat	NUMBE	Calling number type. The options are as	2

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SN	Field Name	Field Type	Description	Sample Value
	OfCalling	R[10]	follows: • **0**: unknown • **1**: national number • **2**: international number This field can be left empty.	
43	NumFormat OfCalled	NUMBE R[10]	Called number type. The options are as follows: • **0**: unknown • **1**: national number • **2**: international number This field can be left empty.	2
44	NumFormat OfRoute	NUMBE R[10]	Routing number type. The options are as follows: • **0**: unknown • **1**: national number • **2**: international number This field can be left empty.	2
45	NumFormat OfOVLR	NUMBE R[10]	VLR number type corresponding to the visited area of the calling party. The options are as follows: • **0**: unknown • **1**: national number • **2**: international number This field can be left empty.	2
46	NumFormat OfTVLR	NUMBE R[10]	VLR number type corresponding to the visited area of the called party. The options are as follows: • **0**: unknown • **1**: national number • **2**: international number This field can be left empty.	2
47	NumFormat OfOCalled	NUMBE R[10]	Original called number type. The options are as follows: • **0**: unknown • **1**: national number • **2**: international number This field can be left empty.	2
48	CalledParty BCDNu	VARCH AR2[32]	Original called number reported in an IDP message. The original called number reported in	-

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SN	Field Name	Field Type	Description	Sample Value
			IDP messages by the MSC is recorded and can be in any format. This field can be left empty.	
49	OriginalRedirectPartyId	VARCHAR2[32]	Original number reported in an IDP message in the MF process. The original number reported in IDP messages is recorded and can be in any format. This field is left empty in other processes. This field can be left empty.	-
50	Service-Code-Type	NUMBER[10]	Service code type. The options are as follows: • **0**: bearer service code • **1**: telecommunications service code This field can be left empty.	-
51	Service-Code	NUMBER[10]	Service code. This field can be left empty. This field is reserved.	-
52	OFFLINEFILENAME	VARCHAR2[64]	Name of the original offline CDR file. This field specifies the original offline CDR file name generated by the MSC. This field is left empty for offline CDRs generated by the OCG.	w_abr_20141113_4345.unl
53	OFFLINEFILELineNo	NUMBER[10]	Line number of the original offline CDR. When the value of the field is 0 or null, this field is invalid. This field can be left empty.	0
54	TenantID	NUMBER[10]	Home BE ID of the charged party. This field can be left empty.	101
55	Brand	NUMBER[10]	Brand of the charged party. This field can be left empty.	-
56	CallType	NUMBER[10]	Call type. The options are as follows: • **1**: international toll call • **2**: toll call between charging areas • **3**: toll call within a charging area • **4**: local call • **5**: call within the group • **6**: emergency number • **7**: international roaming and calling the home country number	4

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SN	Field Name	Field Type	Description	Sample Value
			• **8**: international roaming and calling the visited country number • **9**: international roaming and calling the other country number This field can be left empty.	
57	OnNetFlag	VARCHAR2[1]	Analyzed call type according to the network. The options are as follows: • **0**: inter-network • **1**: intra-network This field can be left empty.	0
58	opposesubcosid	VARCHAR2[20]	Sub-brand information for non-charging party. This field can be left empty.	-
59	Subscription-Id-Data	VARCHAR2[255]	Charged number. The number format is *Country code* + *MSISDN*. This field can be left empty.	-
60	Reserved.	VARCHAR2[255]	This field is left empty.	nocheck
61	Reserved.	VARCHAR2[12]	This field is left empty.	nocheck
62	CUST_EXT_INFO	VARCHAR2[1024]	Extended information that is customized, used for the CBPAdapter bypass scenario. The type is in the format {key:value}, where key is the event attribute ID and value is the event attribute value obtained during decoding. This field can be left empty.	{27:testtvm0}
63	IMEI	VARCHAR2[15]	International mobile equipment identity (IMEI). This field can be left empty.	-

2.2.2 w_smo CDR

This topic describes the format of offline SMS CDR files sent from a third-party system (for example, SMSC or MSC) and normalized by the Mediation.

CDR File Name Format

- w_smo_YYYYMMDD_Seqno.unl

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- smsbypass_{APPNODEID}_{DATANODEID}_{BEID}_YYYYMMDDHHMMSS_Seqno.dat

Example: w_smo_20071012_0001.unl or smsbypass_000_601_00101_20150907235108_01048.dat

CDR Instance

Example of a w_smo CDR file name: w_smo_20141113_5540.unl

1|0|10086|0145561|100|503503|503503|00503136112220051|00503136178705009||1|0||||0145562|0|0|20141113165540||||0||||||||||||00503136112220051||||123||0|0|0|0|00503136178705009|||||||

CDR Quantity Limit

The number of CDRs in a CDR file cannot be greater than 100 thousand because the CDR deduplication function must be supported by each input CDR file. If a special requirement on the maximum number is raised, change the maximum setting.

CDR File Format

Table 2-2 describes the fields in the w_smo (smsbypass) CDR.

Table 2-2 Fields in the w_smo (smsbypass) CDR file

SN	Field Name	Field Type	Description	Sample Value
1	SmsType	VARCHAR2[1]	SMS message type. The options are as follows: • **1**: SMPP+ or MAP3 SMS message • **3**: CAP2 or CAP3 SMS message • **4**: Nokia-Siemens CAMEL1 SMS message This field can be left empty.	1
2	MessageType	VARCHAR2[1]	Message type. The options are as follows: • **1**: fee deduction request • **2**: confirmation message This field can be left empty.	1
3	SMSCAddress	VARCHAR2[8]	SMSC address. This field can be left empty.	10086
4	SMID	VARCHAR2[20]	SMS message ID. The value is a unique SMS message ID generated by the SMSC. The OCS uses this message ID to deduct or refund fees. This field can be left empty.	0145561

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SN	Field Name	Field Type	Description	Sample Value
5	SMLength	NUMBER[10]	Length of the SMS message content. This field is valid to sites that charge for SMS messages based on the SMS message length. If the SMS message length is not used as a charging factor, this field can be left empty or set to **0**.	100
6	MoMSCAddr	VARCHAR2[32]	MSC address of the roaming area of the SMS message sender. If **NumFormatOfOMSC** is set to **0** or **2**, the MSC address format is *Country code* + *NDC* + *LSP*. This field cannot be left empty.	503503
7	MtMSCAddr	VARCHAR2[32]	MSC address of the roaming area of the SMS message recipient. If **NumFormatOfTMSC** is set to **0** or **2**, this field can be set to an MSC address in the format *Country code* + *NDC* + *LSP*. This field can be left empty if the charging function is not involved in the MT process or this field is not used as a charging factor.	503503
8	SourceAddr	VARCHAR2[32]	Number of the SMS message sender. If **NumFormatOfCalling** is set to **0**, the number formats are as follows: • International prefix of the home country in the OCS + Country code + MSISDN If **NumFormatOfCalling** is set to **2**, the number formats are as follows: • Country code + MSISDN • International prefix of the home country in the OCS + Country code + MSISDN This field cannot be left empty.	00503136112220051
9	DestAddr	VARCHAR2[32]	Number of the SMS message recipient. The number formats are as follows: • Country code + MSISDN • International prefix of the home country in the OCS + Country code + MSISDN • NP RN prefix + Country code + MSISDN	00503136178705009

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SN	Field Name	Field Type	Description	Sample Value
			• Special number If **NumFormatOfCalled** is set to **0**, this field can be set to an SMS message recipient number in the format *International prefix of the home country in the OCS* + *Country code* + *MSISDN*. If **NumFormatOfCalled** is set to **2**, this field can be set to an SMS message recipient number in the format *Country code* + *MSISDN* or *International prefix of the home country in the OCS* + *Country code* + *MSISDN*. This field cannot be left empty.	
10	FeeAddr	VARCHAR2[32]	Charged number. The number formats are as follows: • Country code + MSISDN • International prefix of the home country in the OCS + Country code + MSISDN This field can be left empty.	-
11	FeeFlag	NUMBER[10]	Fee deduction flag. The options are as follows: • **1**: Charge the sender. • **2**: Charge the recipient. This field cannot be left empty.	1
12	FeeType	NUMBER[10]	Charging type. The options are as follows: • **0**: default charging type (Common point-to-point SMS messages are charged based on the charge rate configured on the OCS. In other situations, SMS messages are charged based on the charge rate transferred from the SMSC.) • **1**: charging by piece (The SP charges SMS messages based on the message pieces.) • **2**: charging by month (fee deduction) • **3**: charging by month (check) • **4**: charging by the number of SMS messages without exceeding the upper limit • **5**: charging by month with a limited number of SMS messages (fee	0

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SN	Field Name	Field Type	Description	Sample Value
			deduction) • **6**: charging by month with a limited number of SMS messages (check) This field can be left empty.	
13	FeeItdMsgNum	NUMBER[10]	Total number of SMS messages in a monthly package. This field is currently not supported. This field can be left empty. This field is reserved.	-
14	FeeSingle	NUMBER[10]	Tariff of a single SMS message when the messages are charged by piece. This field can be left empty. This field is reserved.	-
15	FeeFixed	NUMBER[10]	Charge rate of a single SMS message when the limited number of messages are charged by month. The excess SMS messages are charged based on the charge rate specified by **FeeSingle**. The **FeeFixed** field is used only when SMS messages are charged by month. This field can be left empty. This field is reserved.	-
16	MessagePID	NUMBER[10]	SMS message PID. This field can be left empty. This field is reserved.	0145562
17	StatusReportRequest	NUMBER[10]	Indicates whether a message status report is required. The options are as follows: • **0**: no • **1**: yes This field can be left empty. The default value is **0**.	0
18	OriginalNetType	NUMBER[10]	Source network type. The options are as follows: • **0**: GSM • **1**: CDMA • **2**: TDMA • **3**: SMPP This field can be left empty. The default value is **0**. The system considers that the	0

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SN	Field Name	Field Type	Description	Sample Value
			value is **0** if this field is left empty.	
19	SMSReceiveTime	VARCHAR2[14]	Time when an SMS message is received. When receiving a refund message, the OCS performs rating and refund based on the time. This field is applicable only to fee deduction requests and is left empty for confirmation messages.	20141113165540
20	CallingService	VARCHAR2[32]	Identifier of an MO service, which is an array with a fixed length of 16 bytes. Each byte specifies a service. The value **0** indicates that the corresponding service is not used. The value **1** indicates that the corresponding service is used in the current message. The service types are as follows: • **Calling_Service[0]**: SMS signature service • **Calling_Service[1]**: MO SMS enhanced receipt service • **Calling_Service[2]**: power-on notification service This field can be left empty.	-
21	CalledService	VARCHAR2[32]	Identifier of an MT service, which is an array with a fixed length of 16 bytes. Each byte specifies a service. The value **0** indicates that the corresponding service is not used. The value **1** indicates that the corresponding service is used in the current message. The service types are as follows: • **Called_Service[0]**: SMS forwarding service • **Called_Service[1]**: automatic reply service This field can be left empty.	-
22	OriginalMsgID	VARCHAR2[32]	ID of the original SMS message that is associated with the current message. The value is recorded in refund messages. This field can be left empty.	-
23	SMDSendRe	NUMBE	SMS message sending result. This field is set based on the corresponding value	0

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SN	Field Name	Field Type	Description	Sample Value
	sult	R[10]	in the SMPP+ message. Value **0** indicates that an SMS message is sent successfully. The other values indicate that the SMS message fails to be sent. This field cannot be left empty.	
24	MsgID	VARCHAR2[32]	SMS message ID generated by the gateway. This field is applicable only to inter-network and Monternet SMS messages, but left empty for intra-network SMS messages. This field can be left empty. This field is reserved.	-
25	GWID	VARCHAR2[32]	ID of the gateway that sends an SMS message. This field is applicable only to inter-network and Monternet SMS messages, but left empty for intra-network SMS messages. This field can be left empty. This field is reserved.	-
26	MsgSeq	VARCHAR2[32]	SMS message ID generated by the SMSC. This field is applicable only to inter-network and Monternet SMS messages, but left empty for intra-network SMS messages. This field can be left empty. This field is reserved.	-
27	SPID	VARCHAR2[32]	SP ID. This field is applicable only to inter-network and Monternet SMS messages, but left empty for intra-network SMS messages. This field can be left empty. This field is reserved.	-
28	ServiceCode	VARCHAR2[32]	Service type code. This field is applicable only to inter-network and Monternet SMS messages, but left empty for intra-network SMS messages. This field can be left empty. This field is reserved.	-

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SN	Field Name	Field Type	Description	Sample Value
29	SourceGWID	VARCHAR2[32]	ID of the source gateway that forwards an SMS message. This field is applicable only to inter-network and Monternet SMS messages, but left empty for intra-network SMS messages. This field can be left empty. This field is reserved.	-
30	PriorityFlag	NUMBER[10]	Priority of an SMS message. This field is applicable only to inter-network and Monternet SMS messages, but left empty for intra-network SMS messages. This field can be left empty. This field is reserved.	-
31	ChargingRate	NUMBER[10]	Charge rate. This field is applicable only to inter-network and Monternet SMS messages, but left empty for intra-network SMS messages. This field can be left empty. This field is reserved.	-
32	ChargingType	NUMBER[10]	Charge rate type. This field is applicable only to inter-network and Monternet SMS messages, but left empty for intra-network SMS messages. The options are as follows: • **0**: not charged, applicable only to the SP channel fee reduction scenario • **1**: free • **2**: charging by piece • **3**: charging by month • **4**: charging within an upper limit For inter-network SMS messages, this field is set to **2**. This field can be left empty. This field is reserved.	-
33	CDRType	NUMBER[10]	CDR type. This field is applicable only to inter-network and Monternet SMS messages, but left empty for	-

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SN	Field Name	Field Type	Description	Sample Value
			intra-network SMS messages. For Monternet SMS messages, the options are as follows: • **0**: unknown • **1**: upstream • **2**: downstream • **3**: monthly SMS service control For inter-network SMS messages, the options are as follows: • **11**: MO CDR generated for SMS messages sent to China Unicom • **12**: MT CDR generated for SMS messages sent to China Unicom For inter-network SMS messages, this field is set to **11**. This field can be left empty. This field is reserved.	
34	Discount	NUMBER[10]	Percentage-based discount. The value **100** indicates that no discount is provided. This field is applicable only to inter-network and Monternet SMS messages, but left empty for intra-network SMS messages. This field can be left empty. This field is reserved.	-
35	GiftResult	NUMBER[10]	This field is reserved. Generally, this field can be left empty.	-
36	Subscription-Id-Data	VARCHAR2[32]	Charged number. For E.164 numbers, the number formats are as follows: • International prefix + Country code + MSISDN • Country code + MSISDN The value is in the calling number in the MO process and called number in the MT process. This field cannot be left empty.	00503136112220051
37	DiameterSessionID	VARCHAR2[128]	Diameter session ID. This field specifies the session ID that external systems send to the OCS through DCC messages and is used for	-

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SN	Field Name	Field Type	Description	Sample Value
			audit. This field can be left empty.	
38	NPPrefix	VARCHAR2[32]	NP or RN prefix of the recipient. This field can be left empty. This field is reserved.	-
39	CalledHomeNetWork	VARCHAR2[32]	This field can be left empty. This field is reserved.	-
40	OpposeTenantID	NUMBER[10]	Home tenant ID of the peer party. This field can be left empty. This field is reserved.	123
41	DCS	NUMBER[10]	Encoding mode of an SMS message that is sent. The options are as follows: • **-1**: not distinguished • **0**: 7-bit (English) • **8**: UCS-2 (Farsi/Other) • **4**: binary This field can be left empty. The system considers that the value is **0** if this field is left empty.	-
42	NumFormatOfCalling	NUMBER[10]	Number type of the sender. The options are as follows: • **0**: unknown • **1**: national number • **2**: international number The default value is **0**. This field cannot be left empty.	0
43	NumFormatOfCalled	NUMBER[10]	Number type of the recipient. The options are as follows: • **0**: unknown • **1**: national number • **2**: international number The default value is **0**. This field cannot be left empty.	0
44	NumFormatOfOMSC	NUMBER[10]	Type of the sender number processed by the MSC of the roaming area. The options are as follows: • **0**: unknown • **1**: national number • **2**: international number	0

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SN	Field Name	Field Type	Description	Sample Value
			The default value is **0**. This field cannot be left empty.	
45	NumFormatOfTMSC	NUMBER[10]	Type of the recipient number processed by the MSC of the roaming area. The options are as follows: • **0**: unknown • **1**: national number • **2**: international number The default value is **0**. This field cannot be left empty.	0
46	CalledPartyBCDNu	VARCHAR2[32]	Original recipient number reported in an IDP message. The value is reported by the MSC and can be in any format. This field cannot be left empty.	00503136178705009
47	OFFLINEFILENAME	VARCHAR2[64]	Name of the original offline CDR file. The value is the name of the original offline CDR file collected by the MSC or SMSC and is used as the input for subscriber audit. This field can be left empty.	-
48	OFFLINEFILELineNo	NUMBER[10]	Line number of the original offline CDR. The value is the line number of the original offline CDR collected by the MSC or SMSC and is used as the input for subscriber audit. This field can be left empty.	-
49	TenantID	NUMBER[10]	Home BE ID of the charged party. This field can be left empty. This field is reserved.	-
50	Brand	NUMBER[10]	Brand of the charged party. This field can be left empty. This field is reserved.	-
51	CallType	NUMBER[10]	SMS message type. The options are as follows: • **0**: unknown • **1**: national SMS message • **2**: international toll SMS message • **3**: international roaming SMS	-

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SN	Field Name	Field Type	Description	Sample Value
			message This field can be left empty.	
52	OnNetFlag	VARCHAR2[1]	Analyzed SMS message type according to the network. The options are as follows: • **0**: inter-network • **1**: intra-network This field can be left empty.	-
53	IMSI	VARCHAR2[15]	This field is reserved. This field can be left empty.	1788858004047
54	CUST_EXT_INFO	VARCHAR2[1024]	Extended information that is customized, used for the CBPAdapter bypass scenario. The type is in the format {key:value}, where key is the event attribute ID and value is the event attribute value obtained during decoding. This field can be left empty.	{27:testtvm0}
55	BYPASS_RESULT_CODE	NUMBER[10]	Bypass error code. This field can be left empty.	-

2.2.3 GPRS CDR

This topic describes the format of offline data service CDR files sent from a third-party system (for example, GGSN) and normalized by the Mediation.

CDR File Name Format

- GPRS_YYYYMMDD_Seqno.unl
- gprsbypass_{APPNODEID}_{DATANODEID}_{BEID}_YYYYMMDDHHMMSS_Seqno.dat

Example: GPRS_YYYYMMDD_Seqno.unl or gprsbypass_000_601_00101_20150907235108_01048.dat

CDR Instance

Example of a GPRS CDR file name: GPRS_20141113_5721.unl

scp101.huawei.com;1876543210;523|scp101|scp101@huawei.com|CBS|CBS@huawei.com|0|ggsn@huawei.com|3|20141113014736|77899|SCP101|1|20141113014736|0|136112220052|0|1|0|0|180|0|0|0|2048|2048|0|0|0|0|180|0|0|0|2048|2048|0|0|0|0|0|0|0|0|0|0|2048|0|0|0|0|0|0|0|0|0|0|0|0|49|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|503|0|0|0|0|0|0|0|0|0|0|20141113014736|20141113014736|0|0|0|0|2048|60|1024|60|0|0|0|0|

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CDR Quantity Limit

The number of CDRs in a CDR file cannot be greater than 100 thousand because the CDR deduplication function must be supported by each input CDR file. If a special requirement on the maximum number is raised, change the maximum setting.

CDR File Format

Table 2-3 describes the fields in the GPRS (gprsbypass) CDR.

Table 2-3 Fields in the GPRS (gprsbypass) CDR file

SN	Field Name	Field Type	Description	Sample Value
1	Session-Id	VARCHAR2 [128]	Diameter session ID. The format is as follows: <DiameterIdentity>;<high 32 bits>;<low 32 bits>[;<optional value>] • <DiameterIdentity>: The value is the same as that in the **Origin-Host** AVP. • <high 32 bits>: The current system time is recorded. • <low 32 bits>: The value increases cyclically. The initial value is **0**. When the system restarts, the value is set to **0**. • <optional value>: This field is reserved. Separate each two fields with a semicolon (;). Example: OCG001.huawei.com;1876543210;523 This field can be left empty.	scp101.huawei.com;1876543210;523
2	Origin-Host	VARCHAR2 [64]	Host that sends the Diameter message. This field can be left empty.	scp101
3	Origin-Realm	VARCHAR2 [32]	Domain of the host that sends the Diameter message. This field can be left empty.	scp101@huawei.com
4	Destination-Host	VARCHAR2 [64]	Destination host, namely, the OCS. This field can be left empty.	CBS
5	Destination-	VARCHAR2	Domain of the destination host,	CBS@huawe

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SN	Field Name	Field Type	Description	Sample Value
	Realm	[32]	namely, domain of the OCS. This field can be left empty.	i.com
6	Auth-Application-Id	NUMBER[10]	Unique ID of the application used for re-authentication and re-authorization. The options are as follows: • **0**: Diameter common message • **1**: NASREQ [NASREQ] • **2**: Mobile-IP • **3**: Diameter Base Accounting [DIAMMIP] • **4**: DCCA • **0xffffffff**: Relay The default value is **0**.	0
7	Service-Context-Id	VARCHAR2[64]	Unique ID of a Diameter service. Example: in@huawei.com Currently, the values include **in@huawei.com**, **manage@huawei.com**, and **mdsp@huawei.com**. This field can be left empty.	ggsn@huawei.com
8	CC-Request-Type	NUMBER[10]	Request type. The options are as follows: • **1**: initial request • **2**: update request • **3**: terminate request • **4**: event request This field is not used, and the processing logic is the same as that for Event requests.	3
9	CC-Request-Number	NUMBER[10]	Request sequence number. This field uniquely identifies a request in a Diameter session where multiple requests are initiated. The default value is **1**.	20141113014736
10	CC-Subsession-Id	VARCHAR2[64]	ID of a subsession. This field can be left empty.	77899
11	User-Name	VARCHAR2[128]	Subscriber name in the NAI format. This field can be left empty.	SCP101
12	Origin-State-	NUMBER[1	Status ID of the host that sends a	1

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SN	Field Name	Field Type	Description	Sample Value
	Id	0]	Diameter message. This field can be left empty.	
13	Event-Timestamp	VARCHAR2[16]	Time when an event occurs. Format: YYYYMMDDHHMMSS This field cannot be left empty.	20141113014736
14	Subscription-Id-Type	NUMBER[10]	Subscriber type. The options are as follows: • **0**: E.164 • **1**: IMSI • **2**: SIP URI • **3**: NAI • **4**: private This field cannot be left empty.	0
15	Subscription-Id-Data	VARCHAR2[128]	Subscriber ID. For E.164 numbers, the number formats are as follows: • MSISDN • International prefix + Country code + MSISDN This field cannot be left empty.	136112220052
16	Service-Identifier1	NUMBER[10]	Service identifier. The combination of **Service-Context-ID** and **Service-Identifier** can uniquely identify the service corresponding to a request. This field can be left empty.	0
17	Termination-Cause	NUMBER[10]	Cause for the termination of a Diameter client session. The options are as follows: • **1**: DIAMETER_LOGOUT (A subscriber ends the session.) • **2**: DIAMETER_SERVICE_NOT_PROVIDED (The session is terminated before a subscriber receives an authorization response.) • **3**: DIAMETER_BAD_ANSWER (The authorization response received by the Diameter	1

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SN	Field Name	Field Type	Description	Sample Value
			client is not successfully processed.) • **4**: DIAMETER_ADMINISTRATIVE (A subscriber is not granted the access authority or the connection is disconnected due to a management problem, for example, the Abort-Session-Request message is received.) • **5**: DIAMETER_LINK_BROKEN (The communication with a subscriber is interrupted unexpectedly.) • **6**: DIAMETER_AUTH_EXPIRED (A subscriber's access ends because the validity period of the authorized session ends.) • **7**: DIAMETER_USER_MOVED (A subscriber is receiving the service of another Diameter client.) • **8**: DIAMETER_SESSION_TIMEOUT (The Diameter session times out.) This field can be left empty.	
18	Route-Record	VARCHAR2[64]	Routing record, which can be entered only by the Diameter proxy. A relay or proxy must add this field to all messages forwarded by the relay or the proxy. This field can be left empty.	0
19	Requested-Action	NUMBER[10]	If **CC-Request-Type** in a CCR message is set to **4**, this field specifies the requested action. The options are as follows: • **0**: direct debiting • **1**: refund • **2**: balance check	0

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SN	Field Name	Field Type	Description	Sample Value
			• **3**: price query This field can be left empty.	
20	CC-Time1	NUMBER[10]	Requested, allocated, or used duration, in seconds. This field can be left empty.	180
21	Value-Digits1	NUMBER[20]	Value, which is used together with the **Exponent1** field. For example, to represent 0.05, set this field to **5** and **Exponent1** to **-2**. This field can be left empty.	0
22	Exponent1	NUMBER[10]	Exponent, which is used together with the **Value-Digits1** field. This field can be left empty.	0
23	Currency-Code1	NUMBER[10]	Currency code that is defined in ISO4217. This field can be left empty. If this field is left empty, the default currency code of the main fund account book is used.	0
24	CC-Total-Octets1	NUMBER[20]	Requested, allocated, or used traffic, in bytes. This field can be left empty.	2048
25	CC-Input-Octets1	NUMBER[20]	Number of requested, authorized, or used bytes received from a subscriber. This field can be left empty.	2048
26	CC-Output-Octets1	NUMBER[20]	Number of requested, authorized, or used bytes sent to a subscriber. This field can be left empty.	0
27	CC-Service-Specific-Units1	NUMBER[10]	Number of special service units. The special service is specified by **Service-Identifier** or **Rating-Group** in the **Multiple-Services-Credit-Control** AVP. This field can be left empty.	0
28	Reporting-Reason1	NUMBER[10]	Reason for reporting the usage of one or more types of quota. This field is extended based on the 3GPP specification. The options are as follows:	0

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SN	Field Name	Field Type	Description	Sample Value
			• **0**: THRESHOLD (The quota usage is reported in the **Used-Service-Units** AVP because the threshold is reached.) • **1**: QHT (The quota usage is reported in the **Multiple-Services-Credit-Control** AVP because the QHT specified in the previous CCA message is reached. For example, the quota is not used during a specified period.) • **2**: FINAL (The quota usage is reported in the **Multiple-Services-Credit-Control** AVP because a common access ends in the PS service or a subscriber ends the session in the IN service.) • **3**: QUOTA_EXHAUSTED (The quota usage is reported in the **Used-Service-Units** AVP because the quota is used up.) • **4**: VALIDITY_TIME (The quota usage is reported in the **Multiple-Services-Credit-Control** AVP because the life cycle of the authorized credit ends. The life cycle of the authorized credit is specified by the **Validity-Time**.) • **5**: OTHER_QUOTA_TYPE (The quota is reported the **Used-Service-Units** AVP because other quotas meet the conditions for triggering the report in the case of multiple quotas.) • **6**: RATING_CONDITION_CHANGE (The quota usage is reported in the **Multiple-Services-Credit-Control** AVP because the rating conditions are changed. The changed rating conditions are specified by the corresponding **Trigger-Type**.) • **7**:	

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SN	Field Name	Field Type	Description	Sample Value
			FORCED_REAUTHORISATION (The quota usage is reported in the **Multiple-Services-Credit-Control** AVP because the server initiates a re-authorization request, for example, when the server receives an RAR request.) Values **1**, **2**, **4**, **6**, and **7** apply to all quota types and used in the **Multiple-Services-Credit-Control** AVP. The other values apply to a specified quota type and are used only in **Used-Service-Units**. If this field is set to **6**, the event that causes the re-authorization request must be specified by the **Trigger-Type** AVP. This field can be left empty.	
29	Tariff-Change-Usage1	NUMBER[10]	Indicates whether to charge the service usage using the tariff before or after tariff switch or both tariffs before and after tariff switch. If this field is omitted, the charge rate is unchanged. This field can be left empty.	0
30	CC-Time2	NUMBER[10]	Requested, allocated, or used duration, in seconds. This field can be left empty.	180
31	Value-Digits2	NUMBER[20]	Value, which is used together with the **Exponent2** field. For example, to represent 0.05, set this field to **5** and **Exponent2** to **-2**. This field can be left empty.	0
32	Exponent2	NUMBER[10]	Exponent, which is used together with the **Value-Digits2** field. This field can be left empty.	0
33	Currency-Code2	NUMBER[10]	Currency code that is defined in ISO4217. This field can be left empty.	0
34	CC-Total-Octets2	NUMBER[20]	Requested, allocated, or used traffic, in bytes.	2048

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SN	Field Name	Field Type	Description	Sample Value
			This field can be left empty.	
35	CC-Input-Octets2	NUMBER[20]	Number of requested, authorized, or used bytes received from a subscriber. This field can be left empty.	2048
36	CC-Output-Octets2	NUMBER[20]	Number of requested, authorized, or used bytes sent to a subscriber. This field can be left empty.	0
37	CC-Service-Specific-Units2	NUMBER[10]	Number of special service units. The special service is specified by **Service-Identifier** or **Rating-Group** in the **Multiple-Services-Credit-Control** AVP. This field can be left empty.	0
38	Multiple-Services-Indicator	NUMBER[10]	Multi-service flag. This field can be left empty.	0
39	Reporting-Reason2	NUMBER[10]	Reason for reporting the usage of one or more types of quota. This field is extended based on the 3GPP specification. This field can be left empty.	0
40	Trigger-Type	NUMBER[10]	Single re-authorization event type. This field is extended based on the 3GPP specification. This field can be left empty.	0
41	CC-Time3	NUMBER[10]	Requested, allocated, or used duration, in seconds. This field can be left empty.	0
42	Value-Digits3	NUMBER[20]	Value, which is used together with the **Exponent3** field. For example, to represent 0.05, set this field to **5** and **Exponent3** to **-2**. This field can be left empty.	0
43	Exponent 3	NUMBER[10]	Exponent, which is used together with the **Value-Digits3** field. This field can be left empty.	0
44	Currency-Code3	NUMBER[10]	Currency code that is defined in ISO4217.	0

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SN	Field Name	Field Type	Description	Sample Value
			This field can be left empty.	
45	CC-Total-Octets3	NUMBER[20]	Requested, allocated, or used traffic, in bytes. This field can be left empty.	0
46	CC-Input-Octets3	NUMBER[20]	Number of requested, authorized, or used bytes received from a subscriber. This field can be left empty.	2048
47	CC-Output-Octets3	NUMBER[20]	Number of requested, authorized, or used bytes sent to a subscriber. This field can be left empty.	0
48	CC-Service-Specific-Units3	NUMBER[10]	Number of special service units. The special service is specified by **Service-Identifier** or **Rating-Group** in the **Multiple-Services-Credit-Control** AVP. This field can be left empty.	0
49	Reporting-Reason3	NUMBER[10]	Reason for reporting the usage of one or more types of quota. This field is extended based on the 3GPP specification. This field can be left empty.	0
50	Tariff-Change-Usage2	NUMBER[10]	Indicates whether to charge the service usage using the tariff before or after tariff switch or both tariffs before and after tariff switch. If this field is omitted, the charge rate is unchanged. This field can be left empty.	0
51	CC-Time4	NUMBER[10]	Requested, allocated, or used duration, in seconds. This field can be left empty.	0
52	Value-Digits4	NUMBER[20]	Value, which is used together with the **Exponent4** field. For example, to represent 0.05, set this field to **5** and **Exponent4** to **-2**. This field can be left empty.	0
53	Exponent4	NUMBER[10]	Exponent, which is used together with the **Value-Digits4** field.	0

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SN	Field Name	Field Type	Description	Sample Value
			This field can be left empty.	
54	Currency-Code4	NUMBER[10]	Currency code that is defined in ISO4217. This field can be left empty.	0
55	CC-Total-Octets4	NUMBER[20]	Requested, allocated, or used traffic, in bytes. This field can be left empty.	0
56	CC-Input-Octets4	NUMBER[20]	Number of requested, authorized, or used bytes received from a subscriber. This field can be left empty.	0
57	CC-Output-Octets4	NUMBER[20]	Number of requested, authorized, or used bytes sent to a subscriber. This field can be left empty.	0
58	CC-Service-Specific-Units4	NUMBER[10]	Number of special service units. The special service is specified by **Service-Identifier** or **Rating-Group** in the **Multiple-Services-Credit-Control** AVP. This field can be left empty.	0
59	Service-Identifier2	NUMBER[10]	Service identifier. This field can be left empty.	0
60	Rating-Group	NUMBER[10]	Rating group ID. All the services of the same rating type belong to the same rating group. This field can be left empty for sites that do not differentiate rating groups.	49
61	CC-Correlation-Id	VARCHAR2[128]	Information used to associate credit control requests generated by different components involved in a service. For example, this field must be set when **Service-Context-Id** is assigned on the transmission or service layer. This field can be left empty.	0
62	Validity-Time	NUMBER[10]	Session timeout interval reported by an external NE. The OCS determines the session timeout interval based on this	0

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SN	Field Name	Field Type	Description	Sample Value
			field value and the internal configuration. This field can be left empty.	
63	3GPP-Charging-Id1	VARCHAR2 [64]	Charging ID. This field can be left empty.	0
64	3GPP-PDP-Type	VARCHAR2 [64]	PDP context type. This field can be left empty.	0
65	PDP-Address	VARCHAR2 [64]	PDP context address. This field can be left empty.	0
66	QOS	VARCHAR2 [64]	Service quality. This field can be left empty.	0
67	SGSN-Address	VARCHAR2 [64]	SGSN address. This field can be left empty.	0
68	GGSN-Address	VARCHAR2 [64]	GGSN address. This field can be left empty.	0
69	CG-Address	VARCHAR2 [64]	CG address. This field can be left empty.	0
70	3GPP-IMSI-MCC-MNC	VARCHAR2 [64]	MCC and MNC extracted from the IMSI. This field can be left empty.	0
71	3GPP-GGSN-MCC-MNC	VARCHAR2 [64]	MCC and MNC of the network to which the GGSN belongs. This field can be left empty.	0
72	3GPP-NSAPI	VARCHAR2 [64]	Network service access point identifier (NSAPI). This field can be left empty.	0
73	Called-Station-Id	VARCHAR2 [64]	APN address. If charging is implemented based on the APN address, this field cannot be left empty.	0
74	3GPP-Session-Stop-Indicator	VARCHAR2 [64]	Session termination flag. This field can be left empty.	0
75	3GPP-Selection-Mode	VARCHAR2 [64]	Selection mode. This field can be left empty.	0
76	3GPP-Charging-Characteri	VARCHAR2 [64]	Charging attribute. This field can be left empty.	0

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SN	Field Name	Field Type	Description	Sample Value
	stics			
77	3GPP-SGSN-MCC-MNC	VARCHAR2[64]	MCC and MNC of the calling party. If the OCS uses this field to analyze the roaming area, this field cannot be left empty. If the OCS does not use this field to analyze the roaming area, this field can be left empty.	0
78	3GPP-MS-TimeZone	VARCHAR2[64]	Time zone where a subscriber locates. This field can be left empty.	0
79	3GPP-CAMEL-Charging-Info	VARCHAR2[64]	CAMEL-based charging information. This field can be left empty.	0
80	Charging-Rule-Base-Name	VARCHAR2[64]	Charging rule name. This field can be left empty.	0
81	3GPP-User-Location-Info	VARCHAR2[64]	Roam-in area information. If the OCS uses this field to analyze the roaming area, this field cannot be left empty. If the OCS does not use this field to analyze the roaming area, this field can be left empty.	503
82	3GPP-RAT-Type	VARCHAR2[64]	Parameter transferred from the wireless network. This field can be left empty.	0
83	3GPP-Charging-Id2	VARCHAR2[64]	Charging ID. This field can be left empty.	0
84	PS-Free-Format-Data	VARCHAR2[64]	Data of the PS format. This field can be left empty.	0
85	PS-Append-Free-Format-Data	NUMBER[10]	Additional data of the PS format. This field can be left empty.	0
86	PDP-Context-Type	NUMBER[10]	PDP context type. This field can be left empty.	0
87	SP-Id	VARCHAR2[28]	SP ID. This field can be left empty.	0
88	Service-Id	VARCHAR2[28]	Service ID. This field can be left empty.	0

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SN	Field Name	Field Type	Description	Sample Value
89	Service-Type	NUMBER[10]	Service type. This field can be left empty.	0
90	Content-Id	VARCHAR2[28]	Content ID. This field can be left empty.	0
91	BearerType	NUMBER[10]	Message bearer type. This field can be left empty.	0
92	StartTime	VARCHAR2[14]	Charging start time. This field can be left empty.	20141113014736
93	StopTime	VARCHAR2[14]	Charging end time. This field can be left empty.	20141113014736
94	BearerProtocolType	NUMBER[10]	Message protocol. This field can be left empty.	0
95	ChargingID	VARCHAR2[28]	ID of the charged party. This field can be left empty.	0
96	ServiceLevel	NUMBER[10]	Service level. This field can be left empty.	0
97	Transaction-Id	VARCHAR2[28]	Transaction ID. This field can be left empty.	0
98	TotalVolume	NUMBER[20]	Total traffic used in a session, in bytes This field cannot be left empty.	2048
99	TotalDuration	NUMBER[10]	Total duration used in a session, in seconds. This field cannot be left empty.	60
100	UnchargedVolume	NUMBER[20]	Traffic used in the period from the last time when a session is updated successfully to the end of the session. If the CBP is disconnected when the session starts, value of this field is the same as that of **TotalVolume**. This field cannot be left empty.	1024
101	UnchargedDuration	NUMBER[10]	Duration used in the period from the last time when a session is updated successfully to the end of the session, in seconds. If the CBP is disconnected when the session starts, value of this field is the same as that of	60

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SN	Field Name	Field Type	Description	Sample Value
			TotalDuration. This field cannot be left empty.	
102	LastUpdateTime	VARCHAR2[14]	Last time when a session is updated successfully. This field can be left empty.	0
103	OFFLINEFILENAME	VARCHAR2[64]	Name of the original offline CDR file. This field is used to audit original CDRs. If original CDRs do not need to be audited, this field can be left empty.	0
104	OFFLINEFILELineNo	NUMBER[10]	Line number of the original offline CDR. This field is used to audit original CDRs. If original CDRs do not need to be audited, this field can be left empty.	0
105	Tariff Class	VARCHAR2[12]	This field contains the tariff class according to your originated main charging zone. This field can be left empty.	0
106	CUST_EXT_INFO	VARCHAR2[1024]	Extended information that is customized, used for the CBPAdapter bypass scenario. The type is in the format {key:value}, where key is the event attribute ID and value is the event attribute value obtained during decoding. This field can be left empty.	{27:testtvm0}
107	BYPASS_RESULT_CODE	NUMBER[10]	Bypass error code. This field can be left empty.	-

2.2.4 TAPIN_VOICE CDR

This topic describes the format of offline roam-out voice CDR files sent from a third-party system and normalized by the Mediation.

CDR File Name Format

TAPIN_VOICE_YYYYMMDD_SEQUENCE.unl

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CDR Instance

Example of a TAPIN_VOICE CDR file name: TAPIN_VOICE_20141017_110111.unl

00|0|0|00503788858004047|1788858004047|||20141017131508|300|20141018111508||1|||D|86||||00|1500|60|00|1600|60||||||

SN	Field Name	Field Type	Description	Sample Value
			This field can be left empty.	
7	Network_Type	VARCHAR2[2]	Network type of the charged party number. This field can be left empty.	-
8	START_TIME	VARCHAR2[14]	Charging start time. Format: YYYYMMDDHHMMSS This field cannot be left empty.	20141017131508
9	DURATION	NUMBER[10]	Call duration, in seconds. This field cannot be left empty.	300
10	END_TIME	VARCHAR2[14]	Charging end time. This field is left empty. An external system needs to convert the value to the subscriber's home time zone.	20141018111508
11	END_CAUSE	VARCHAR2[4]	Cause for call interruption. This field can be left empty.	-
12	Recording_Entity_Type	VARCHAR2[2]	Entity type. The options are as follows: • **1**: mobile switching center (MSC) • **2**: short message service center (SMSC) • **3**: gateway GPRS support node (GGSN) • **4**: serving GPRS support node (SGSN) • **5**: gateway mobile location center (GMLC) This field can be left empty.	1
13	LAC	VARCHAR2[8]	Area code of a mobile device that processes calls. This field can be left empty.	-
14	CELL_ID	VARCHAR2[8]	ID of a cell or base station. This field can be left empty.	-
15	charged_Item1	VARCHAR2[2]	Type of the first charging item group in the charging information list. The options are as follows: • **A**: call attempt • **C**: content-based charging • **D**: duration-based charging • **E**: event-based charging	D

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SN	Field Name	Field Type	Description	Sample Value
			• **F**: one-off charging • **I**: cross-network charging • **N**: no charging • **V**: charging by upstream traffic • **W**: charging by downstream traffic • **X**: charging by total traffic This field cannot be left empty.	
16	Called_Country_Code	VARCHAR2[10]	Country code of the called party. This field can be left empty.	86
17	Call_Type_Level1	VARCHAR2[2]	Level-1 call type. The options are as follows: • **1**: national • **2**: international This field can be left empty.	-
18	Call_Type_Level2	VARCHAR2[2]	Level-2 call type. The options are as follows: • **0**: unknown • **1**: mobile • **2**: fixed-line network • **3**: irrelevant to location • **4**: premium rate This field can be left empty.	-
19	Call_Type_Level3	VARCHAR2[2]	Level-3 call type. The items in this category are sub-items of the level-2 category. Value **1** is restricted for local calls and shall not be used for any other category within the virtual private mobile network (VPMN)'s Internet of Things (IOT). All other values are as defined within the VPMN's IOT. This field can be left empty.	-
20	charge_Type11	VARCHAR2[4]	Charge code of the first charging item in the first charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee	00

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SN	Field Name	Field Type	Description	Sample Value
			• **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period The service usage fee for a charged party is calculated based on the values of **charGE1***X* (such as **charGE11**, **charGE12**, and **charGE13**), **charGE2***X* (such as **charGE21**, **charGE22**, and **charGE23**), and **charge_Type**. The calculation methods are as follows: • If none of the values of **charge_Type1***X* and **charge_Type2***X* is **00**, the calculation formula is as follows: Total fee = **charGE11** + **charGE12** + **charGE13** + **charGE21** + **charGE22** + **charGE23** • If one of the values of **charge_Type1***X* and **charge_Type2***X* is **00**, for example, when the value of **charge_Type12** is **00**, the calculation formula is as follows: Total fee = **charGE12** + **charGE21** + **charGE22** + **charGE23** • If multiple values of **charge_Type1***X* and **charge_Type2***X* are **00**, the total fee is the sum of the **charGE** values corresponding to the first **charge_Type1***X* and **charge_Type2***X* whose values are **00**. For example, when the value of **charge_Type11** is **00**, **charge_Type12** is **04**, **charge_Type13** is **00**,	

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SN	Field Name	Field Type	Description	Sample Value
			charge_Type21 is **05**, **charge_Type22** is **00**, and **charge_Type23** is **00**, the calculation formula is as follows: Total fee = **charGE11** + **charGE22**. This field can be left empty.	
21	charGE11	NUMBER[20]	Charged amount of the first charging item in the first charging item group. This field can be left empty.	1500
22	charge_Units11	NUMBER[10]	Unit of the first charging item in the first charging item group. This field can be left empty.	60
23	charge_Type12	VARCHAR2[4]	Charge code of the second charging item in the first charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period This field can be left empty.	00
24	charGE12	NUMBER[20]	Charged amount of the second charging item in the first charging item group. This field can be left empty.	1600
25	charge_Units12	NUMBER[10]	Unit of the second charging item in the first charging item group. This field can be left empty.	60
26	charge_Type	VARCH	Charge code of the third charging item	-

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SN	Field Name	Field Type	Description	Sample Value
	13	AR2[4]	in the first charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period This field can be left empty.	
27	charGE13	NUMBER[20]	Charged amount of the third charging item in the first charging item group. This field can be left empty.	-
28	charge_Units13	NUMBER[10]	Unit of the third charging item in the first charging item group. This field can be left empty.	-
29	charged_Item2	VARCHAR2[2]	Type of the second charging item group in the charging information list. The options are as follows: • **A**: call attempt • **C**: content-based charging • **D**: duration-based charging • **E**: event-based charging • **F**: one-off charging • **I**: cross-network charging • **N**: no charging • **V**: charging by upstream traffic • **W**: charging by downstream traffic • **X**: charging by total traffic	-

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SN	Field Name	Field Type	Description	Sample Value
			This field can be left empty.	
30	charge_Type21	VARCHAR2[4]	Charge code of the first charging item in the second charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period This field can be left empty.	-
31	charGE21	NUMBER[20]	Charged amount of the first charging item in the second charging item group. This field can be left empty.	-
32	charged_Units21	NUMBER[10]	Unit of the first charging item in the second charging item group. This field can be left empty.	-
33	charge_Type22	VARCHAR2[4]	Charge code of the second charging item in the second charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits	-

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SN	Field Name	Field Type	Description	Sample Value
			• **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period This field can be left empty.	
34	charGE22	NUMBER[20]	Charged amount of the second charging item in the second charging item group. This field can be left empty.	-
35	charged_Units22	NUMBER[10]	Unit of the second charging item in the second charging item group. This field can be left empty.	-
36	charge_Type23	VARCHAR2[4]	Charge code of the third charging item in the second charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period This field can be left empty.	-
37	charGE23	NUMBER[20]	Charged amount of the third charging item in the second charging item group.	-

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SN	Field Name	Field Type	Description	Sample Value
			This field can be left empty.	
38	charged_Units23	NUMBER[10]	Unit of the third charging item in the second charging item group. This field can be left empty.	-
39	Day_Category	VARCHAR2[4]	Preferential day type. The options are as follows: • **N**: workday • **I**: national independence day • **P**: public holiday • **R**: weekend This field can be left empty.	-
40	Category_Subtype	VARCHAR2[4]	Subtype associated with **Day Category**. This field is defined by the carrier corresponding to the visited area of a roaming subscriber. This field can be left empty.	-
41	Time_Band	VARCHAR2[4]	Charging time segment associated with **Charge Detail** and **Charge Detail Timestamp**. This field is defined by the carrier corresponding to the visited area of a roaming subscriber. If **Charge Detail Timestamp** is not provided, this field indicates the time segment corresponding to **Charging Timestamp** associated with **Charging Information**. The carrier corresponding to the visited area can set **Time_Band_Subtype** to further specify the charging time segment. This field can be left empty.	-
42	Time_Band_Subtype	VARCHAR2[4]	Charging time segment subtype. This field is defined by the carrier corresponding to the visited area of a roaming subscriber. This field can be left empty.	-
43	Multiate_Indicator	VARCHAR2[2]	Indicates whether the type of the preferential day or preferential time segment changes during charging. A flag indicating that a Charge Detail began during the related Day Category and Time Band and spanned a change of either of those items. This field can be left empty.	-

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SN	Field Name	Field Type	Description	Sample Value
44	Tax_Type	VARCHAR2[4]	Tax type. Tax type associated with Tax Rate Code and Tax Rate. The options are as follows: • **01**: national tax • **02**: regional tax • **03**: county tax • **04**: local or city tax • **05**: provincial tax. • **06**: dominion tax • **07**: gross receipts tax • **08**: absolute or fixed tax (no tax rate specified) • **09**: public utility tax • **10**: sales and use tax • **11**: excise tax • **12**: communications tax • **13**: value added tax (VAT) • **14**: harmonized sales tax This field can be left empty.	-
45	Tax_Rate	NUMBER[10]	Tax rate for a specific tax type and code. According to some national laws and regulations, taxes must be collected based on the tax rate corresponding to the invoice date. If invoice generation is postponed, the tax rate in the invoice may be different from the tax rate that is transferred. However, the occurrence rate of this situation is extremely low. This field is mandatory unless the fixed tax rate is used. The value is precise to five decimal places and ranges from 00.00000 to 99.99999. This field can be left empty.	-
46	Tax_Value	NUMBER[20]	Actual tax amount. The value must be equal to or greater than 0 and the number of decimal places is specified by **TAP Decimal Places**. The value is in SDRs. This field can be left empty.	-
47	Discount_Ty	NUMBE	Discount type. The options are as	-

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SN	Field Name	Field Type	Description	Sample Value
	pe	R[10]	follows: • **0**: discount rate • **1**: fixed discount value This field can be left empty.	
48	Discount_Rate	NUMBER[10]	Discount rate. This field can be left empty.	-
49	Discount_Value	NUMBER[20]	Discount amount. This field can be left empty.	-
50	CAMEL_Service_Address	VARCHAR2[8]	IP address of the Customized Applications for Mobile Network Enhanced Logic (CAMEL) server. This field can be left empty.	-
51	CAMEL_Service_Level	VARCHAR2[4]	CAMEL service level. This field can be left empty.	-
52	CAMEL_Service_Key	VARCHAR2[4]	CAMEL service key value. This field can be left empty.	-
53	Default_Call_Handling_Indicator	VARCHAR2[2]	Default call processing ID of the CAMEL. This field can be left empty.	-
54	CAMEL_MSC_Address	VARCHAR2[15]	MSC address of the CAMEL. This field can be left empty.	-
55	CAMEL_Reference_Num	NUMBER[20]	CAMEL activation flag. This field can be left empty.	-
56	CAMEL_Initiated_Indicator	VARCHAR2[2]	Indicates whether the call is a forwarded call initiated by the CAMEL server. This field can be left empty.	-
57	CAMEL_Modification	VARCHAR2[2]	Indicates whether a call is initiated when the CAMEL protocol is used. This field can be left empty.	-
58	CSE_Info	VARCHAR2[40]	Information downloaded from the CAMEL server. This field can be left empty.	-
59	Caller_number	VARCHAR2[30]	Calling number, in the format *Country code* + *MSISDN*. The value consists of digits, asterisks (*), and number signs (#). This field can be left empty.	503788858004047

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SN	Field Name	Field Type	Description	Sample Value
60	Dialed_Digits	VARCHAR2[30]	Dialed number. This field can be left empty.	-
61	Called_number	VARCHAR2[30]	Called number, in the format *Country code* + *MSISDN*. The value consists of digits, asterisks (*), and number signs (#). This field can be left empty.	503788858004048
62	third_number	VARCHAR2[30]	Third-party number, which is valid only in the MF process. This field can be left empty.	-
63	Called_Place	VARCHAR2[10]	Home city of the called party, which is valid only in the CDRs generated in the MO process. This field can be left empty.	-
64	Called_Region	VARCHAR2[10]	Home area of the called party, which is valid only in the CDRs generated in the MO process. This field can be left empty.	-
65	MSC	VARCHAR2[15]	MSC ID. This field can be left empty.	503503
66	Service_Type	VARCHAR2[4]	Service type. This field can be left empty.	-
67	SERVICE_CODE	VARCHAR2[4]	Service code. This field can be left empty.	-
68	Radio_Channel_Req	NUMBER[10]	Radio channel type requested by the terminal during call connection. This field can be left empty.	-
69	Radio_Channel_Used	NUMBER[10]	Allocated radio channel type during call connection. This field can be left empty.	-
70	Speech_Version_Req	NUMBER[10]	Preferred voice version that the terminal requests the mobile station to deliver when a call is established. This field can be left empty.	-
71	Speech_Version_Used	NUMBER[10]	Voice version delivered by the mobile station during call connection. This field can be left empty.	-
72	Transparency_Indicator	VARCHAR2[2]	Indicates whether used services are transparent.	-

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SN	Field Name	Field Type	Description	Sample Value
			This field can be left empty.	
73	Fixed_Network_User_Rate	VARCHAR2[2]	Rate on the fixed-line network. The options are as follows: • **1**: 9.6 kbit/s • **2**: 14.4 kbit/s • **3**: 19.2 kbit/s • **4**: 28.8 kbit/s • **5**: 38.4 kbit/s • **6**: 48 kbit/s • **7**: 56 kbit/s • **8**: 64 kbit/s This field can be left empty.	-
74	Air_Interface_User_Rate_Req	VARCHAR2[2]	Rate at which subscribers request air interfaces. This field can be left empty.	-
75	User_Protocol_Indicator	VARCHAR2[2]	High-end subscriber protocol between the mobile station and network. This field can be left empty.	-
76	reserve	VARCHAR2[1]	This field is reserved. This field can be left empty.	-
77	reserve	VARCHAR2[2]	This field is reserved. This field can be left empty.	-
78	reserve	VARCHAR2[2]	This field is reserved. This field can be left empty.	-
79	reserve	VARCHAR2[2]	This field is reserved. This field can be left empty.	-
80	reserve	VARCHAR2[1]	This field is reserved. This field can be left empty.	-
81	reserve	VARCHAR2[5]	This field is reserved. This field can be left empty.	-
82	reserve	VARCHAR2[10]	This field is reserved. This field can be left empty.	-
83	reserve	VARCHAR2[1]	This field is reserved. This field can be left empty.	-
84	reserve	VARCHAR2[1]	This field is reserved. This field can be left empty.	-

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SN	Field Name	Field Type	Description	Sample Value
85	reserve	VARCHAR2[24]	This field is reserved. This field can be left empty.	-
86	TAPFILENAME	VARCHAR2[64]	CDR file name, containing the international roaming PMN code that indicates the country code and carrier information. The CDR file name is in the format CD*XXXXXYYYYYSequence number*.suffix. • **CD**: CDR file name prefix. The first two digits have a fixed value of **CD**. • *XXXXX*: PMN code of the carrier corresponding to the visited area of a roaming-out subscriber • *YYYYY*: PMN code of the carrier corresponding to the home area of a roaming-out subscriber This field cannot be left empty.	CD1010000022110111.suffix
87	reserve	VARCHAR2[10]	This field is reserved. This field can be left empty.	-
88	reserve	VARCHAR2[5]	This field is reserved. This field can be left empty.	-
89	ExchangeRate	NUMBER[10]	Exchange rate between the local currency and standard currency. This field can be left empty.	-
90	chargeable_unit1	NUMBER[10]	Rounding unit for the first type of service usage generated during charging. This field can be left empty.	-
91	chargeable_unit2	NUMBER[10]	Rounding unit for the second type of service usage generated during charging. This field can be left empty.	-
92	chargeable_unit3	NUMBER[10]	Rounding unit for the third type of service usage generated during charging. This field can be left empty.	-
93	reserve	VARCHAR2[1]	This field is reserved. This field can be left empty.	-
94	reserve	VARCHAR2[60]	This field is reserved. This field can be left empty.	-

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SN	Field Name	Field Type	Description	Sample Value
95	CALL_START_TIME_TIMEZONE	NUMBER[10]	Time zone of the visited area. The information is transparently transferred and recorded in CDRs, but it does not affect rating. This field can be left empty.	-
96	TAPFILELineNo	NUMBER[10]	Line number of a CDR in a TAPIN CDR file. The file header and tail are not counted as lines. This field cannot be left empty.	-

2.2.5 TAPIN_SMS CDR

This topic describes the format of offline roam-out SMS CDR files sent from a third-party system and normalized by the Mediation.

CDR File Name Format

TAPIN_SMS_YYYYMMDD_SEQUENCE.unl

CDR Instance

Example of a TAPIN_SMS CDR file name: TAPIN_SMS_20141027_192555.unl

11|0|0|005037888780005032|17888780005032|0|0|20141027192605|600|20141028192605|11|1|||D|503|2|0|0|00|100|60|00|120|70||||||||||||||N|0|0|0|0||||||||||||||||005037888780005032|005037888650002000|005037888650002000||0|0|503503|0|0|||||||0|0|0|0|0|0|0|0|0|0|0|0|CDMYSCC00022192555.suffix|||0|0|0|0|0|0|0|12345678|

CDR Quantity Limit

The number of CDRs in a CDR file cannot be greater than 100 thousand because the CDR deduplication function must be supported by each input CDR file. If a special requirement on the maximum number is raised, change the maximum setting.

CDR File Format

Table 2-5 describes the fields in the TAPIN_SMS CDR.

Table 2-5 Fields in the TAPIN_SMS CDR

SN	Field Name	Field Type	Description	Sample Value
1	CDR_type	VARCHAR2[2]	CDR type. The options are as follows: • **10**: SMS message sender • **11**: SMS message recipient This field cannot be left empty.	11

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SN	Field Name	Field Type	Description	Sample Value
2	Fraud_Monitor_Indicator	VARCHAR2[2]	ID of a charged subscriber who is monitored due to the possibility of fraud. This field can be left empty.	0
3	IDType	NUMBER[10]	Terminal ID type. **0**: international mobile subscriber identity (IMSI) This field has a fixed value of **0**. This field cannot be left empty.	0
4	MSISDN	VARCHAR2[30]	Number of the charged party. The number formats are as follows: • MSISDN • International prefix + Country code + MSISDN This field can be left empty.	005037888780005032
5	IMSI	VARCHAR2[15]	IMSI of the charged party. This field cannot be left empty.	17888780005032
6	IMEI	VARCHAR2[15]	International mobile equipment identity (IMEI) or electronic serial number (ESN) of the charged party. This field can be left empty.	0
7	Network_Type	VARCHAR2[2]	Network type. This field can be left empty.	0
8	START_TIME	VARCHAR2[14]	Charging start time. An external system needs to convert the value to the subscriber's home time zone. This field cannot be left empty.	20141027192605
9	DURATION	NUMBER[10]	Duration for sending an SMS message, in seconds. This field cannot be left empty.	600
10	END_TIME	VARCHAR2[14]	Charging end time. This field is left empty. An external system converts the value to the OCS system time zone.	20141028192605
11	END_CAUSE	VARCHAR2[4]	Cause for SMS message sending interruption. This field can be left empty.	11
12	Recording_E	VARCH	Entity type. The options are as follows:	1

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SN	Field Name	Field Type	Description	Sample Value
	ntity_Type	AR2[2]	• **1**: mobile switching center (MSC) • **2**: short message service center (SMSC) • **3**: gateway GPRS support node (GGSN) • **4**: serving GPRS support node (SGSN) • **5**: gateway mobile location center (GMLC) This field can be left empty.	
13	LAC	VARCHAR2[8]	Area code of a mobile device that processes SMS messages. This field can be left empty.	-
14	CELL_ID	VARCHAR2[8]	ID of a cell or base station. This field can be left empty.	-
15	charged_Item1	VARCHAR2[2]	Type of the first charging item group in the charging information list. The options are as follows: • **A**: call attempt • **C**: content-based charging • **D**: duration-based charging • **E**: event-based charging • **F**: one-off charging • **I**: cross-network charging • **N**: no charging • **V**: charging by upstream traffic • **W**: charging by downstream traffic • **X**: charging by total traffic This field cannot be left empty.	D
16	Called_Country_Code	VARCHAR2[10]	Country code of the recipient. This field can be left empty.	503
17	Call_Type_Level1	VARCHAR2[2]	SMS message level 1. The options are as follows: • **1**: national • **2**: international This field can be left empty.	2
18	Call_Type_Level2	VARCHAR2[2]	SMS message level 2. The options are as follows: • **0**: unknown • **1**: mobile	0

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SN	Field Name	Field Type	Description	Sample Value
			• **2**: fixed-line network • **3**: irrelevant to location • **4**: premium rate This field can be left empty.	
19	Call_Type_Level3	VARCHAR2[2]	SMS message level 3. The items in this category are sub-items of the level-2 category. Value **1** is restricted for local calls and shall not be used for any other category within the VPMN's IOT. All other values are as defined within the VPMN's IOT. This field can be left empty.	0
20	charge_Type11	VARCHAR2[4]	Charge code of the first charging item in the first charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period The service usage fee for a charged party is calculated based on the values of **charGE1***X* (such as **charGE11**, **charGE12**, and **charGE13**), **charGE2***X* (such as **charGE21**, **charGE22**, and **charGE23**), and **charge_Type**. The calculation methods are as follows: • If none of the values of **charge_Type1***X* and	00

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SN	Field Name	Field Type	Description	Sample Value
			charge_Type2*X* is **00**, the calculation formula is as follows: Total fee = **charGE11** + **charGE12** + **charGE13** + **charGE21** + **charGE22** + **charGE23** • If one of the values of **charge_Type1***X* and **charge_Type2***X* is **00**, for example, when the value of **charge_Type12** is **00**, the calculation formula is as follows: Total fee = **charGE12** + **charGE21** + **charGE22** + **charGE23** • If multiple values of **charge_Type1***X* and **charge_Type2***X* are **00**, the total fee is the sum of the **charGE** values corresponding to the first **charge_Type1***X* and **charge_Type2***X* whose values are **00**. For example, when the value of **charge_Type11** is **00**, **charge_Type12** is **04**, **charge_Type13** is **00**, **charge_Type21** is **05**, **charge_Type22** is **00**, and **charge_Type23** is **00**, the calculation formula is as follows: Total fee = **charGE11** + **charGE22**. This field can be left empty.	
21	charGE11	NUMBER[20]	Charged amount of the first charging item in the first charging item group. This field can be left empty.	100
22	charge_Units11	NUMBER[10]	Unit of the first charging item in the first charging item group. This field can be left empty.	60
23	charge_Type12	VARCHAR2[4]	Charge code of the second charging item in the first charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call	00

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SN	Field Name	Field Type	Description	Sample Value
			• **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period This field can be left empty.	
24	charGE12	NUMBER[20]	Charged amount of the second charging item in the first charging item group. This field can be left empty.	120
25	charge_Units12	NUMBER[10]	Unit of the second charging item in the first charging item group. This field can be left empty.	70
26	charge_Type13	VARCHAR2[4]	Charge code of the third charging item in the first charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period This field can be left empty.	-

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SN	Field Name	Field Type	Description	Sample Value
27	charGE13	NUMBER[20]	Charged amount of the third charging item in the first charging item group. This field can be left empty.	-
28	charge_Units13	NUMBER[10]	Unit of the third charging item in the first charging item group. This field can be left empty.	-
29	charged_Item2	VARCHAR2[2]	Type of the second charging item group in the charging information list. The options are as follows: • **A**: call attempt • **C**: content-based charging • **D**: duration-based charging • **E**: event-based charging • **F**: one-off charging • **I**: cross-network charging • **N**: no charging • **V**: charging by upstream traffic • **W**: charging by downstream traffic • **X**: charging by total traffic This field can be left empty.	-
30	charge_Type21	VARCHAR2[4]	Charge code of the first charging item in the second charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during	-

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SN	Field Name	Field Type	Description	Sample Value
			the charging detail rating period This field can be left empty.	
31	charGE21	NUMBER[20]	Charged amount of the first charging item in the second charging item group. This field can be left empty.	-
32	charged_Units21	NUMBER[10]	Unit of the first charging item in the second charging item group. This field can be left empty.	-
33	charge_Type22	VARCHAR2[4]	Charge code of the second charging item in the second charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period This field can be left empty.	-
34	charGE22	NUMBER[20]	Charged amount of the second charging item in the second charging item group. This field can be left empty.	-
35	charged_Units22	NUMBER[10]	Unit of the second charging item in the second charging item group. This field can be left empty.	-
36	charge_Type23	VARCHAR2[4]	Charge code of the third charging item in the second charging item group. The options are as follows: • **00**: total fee that can be invoiced	-

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SN	Field Name	Field Type	Description	Sample Value
			• **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period This field can be left empty.	
37	charGE23	NUMBER[20]	Charged amount of the third charging item in the second charging item group. This field can be left empty.	-
38	charged_Units23	NUMBER[10]	Unit of the third charging item in the second charging item group. This field can be left empty.	-
39	Day_Category	VARCHAR2[4]	Preferential day type. The options are as follows: • **N**: workday • **I**: national independence day • **P**: public holiday • **R**: weekend This field can be left empty.	N
40	Category_Subtype	VARCHAR2[4]	Subtype associated with **Day Category**. This field is defined by the carrier corresponding to the visited area of a roaming subscriber. This field can be left empty.	0
41	Time_Band	VARCHAR2[4]	Charging time segment associated with **Charge Detail** and **Charge Detail Timestamp**. This field is defined by the carrier corresponding to the visited area of a roaming subscriber. If **Charge**	0

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SN	Field Name	Field Type	Description	Sample Value
			Detail Timestamp is not provided, this field indicates the time segment corresponding to **Charging Timestamp** associated with **Charging Information**. The carrier corresponding to the visited area can set **Time_Band_Subtype** to further specify the charging time segment. This field can be left empty.	
42	Time_Band_Subtype	VARCHAR2[4]	Charging time segment subtype. This field is defined by the carrier corresponding to the visited area of a roaming subscriber. This field can be left empty.	0
43	Multiate_Indicator	VARCHAR2[2]	Indicates whether the type of the preferential day or preferential time segment changes during charging. A flag indicating that a Charge Detail began during the related Day Category and Time Band and spanned a change of either of those items. This field can be left empty.	0
44	Tax_Type	VARCHAR2[4]	Tax type. Tax type associated with Tax Rate Code and Tax Rate. The options are as follows: • **01**: national tax • **02**: regional tax • **03**: county tax • **04**: local or city tax • **05**: provincial tax. • **06**: dominion tax • **07**: gross receipts tax • **08**: absolute or fixed tax (no tax rate specified) • **09**: public utility tax • **10**: sales and use tax • **11**: excise tax • **12**: communications tax • **13**: value added tax (VAT) • **14**: harmonized sales tax This field can be left empty.	-

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SN	Field Name	Field Type	Description	Sample Value
45	Tax_Rate	NUMBER[10]	Tax rate for a specific tax type and code. According to some national laws and regulations, taxes must be collected based on the tax rate corresponding to the invoice date. If invoice generation is postponed, the tax rate in the invoice may be different from the tax rate that is transferred. However, the occurrence rate of this situation is extremely low. This field is mandatory unless the fixed tax rate is used. The value is precise to five decimal places and ranges from 00.00000 to 99.99999. This field can be left empty.	-
46	Tax_Value	NUMBER[20]	Actual tax amount. The value must be equal to or greater than 0 and the number of decimal places is specified by **TAP Decimal Places**. The value is in SDRs. This field can be left empty.	-
47	Discount_Type	NUMBER[10]	Discount type. The options are as follows: • **0**: discount rate • **1**: fixed discount value This field can be left empty.	-
48	Discount_Rate	NUMBER[10]	Discount rate. This field can be left empty.	-
49	Discount_Value	NUMBER[20]	Discount amount. This field can be left empty.	-
50	CAMEL_Service_Address	VARCHAR2[8]	IP address of the Customized Applications for Mobile Network Enhanced Logic (CAMEL) server. This field can be left empty.	-
51	CAMEL_Service_Level	VARCHAR2[4]	CAMEL service level. This field can be left empty.	-
52	CAMEL_Service_Key	VARCHAR2[4]	CAMEL service key value. This field can be left empty.	-
53	Default_Call_Handling_Indicator	VARCHAR2[2]	Default call processing ID of the CAMEL. This field can be left empty.	-

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SN	Field Name	Field Type	Description	Sample Value
54	CAMEL_MSC_Address	VARCHAR2[15]	MSC address of the CAMEL. This field can be left empty.	-
55	CAMEL_Reference_Num	NUMBER[20]	CAMEL activation flag. This field can be left empty.	-
56	CAMEL_Initiated_Indicator	VARCHAR2[2]	Indicates whether the call is a forwarded call initiated by the CAMEL server. This field can be left empty.	-
57	CAMEL_Modification	VARCHAR2[2]	Indicates whether a call is initiated when the CAMEL protocol is used. This field can be left empty.	-
58	CSE_Info	VARCHAR2[40]	Information downloaded from the CAMEL server. This field can be left empty.	-
59	Caller_number	VARCHAR2[30]	Calling number, in the format *Country code + MSISDN*. The value consists of digits, asterisks (*), and number signs (#). This field can be left empty.	005037888780005032
60	Dialed_Digits	VARCHAR2[30]	Dialed number. This field can be left empty.	005037888650002000
61	Called_number	VARCHAR2[30]	Called number, in the format *Country code + MSISDN*. The value consists of digits, asterisks (*), and number signs (#). This field can be left empty.	005037888650002000
62	third_number	VARCHAR2[30]	Third-party number, which is valid only in the MF process. This field can be left empty.	-
63	Called_Place	VARCHAR2[10]	Home city of the called party, which is valid only in the CDRs generated in the MO process. This field can be left empty.	0
64	Called_Region	VARCHAR2[10]	Home area of the called party, which is valid only in the CDRs generated in the MO process. This field can be left empty.	0
65	MSC	VARCHAR2[15]	MSC ID. This field can be left empty.	503503

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SN	Field Name	Field Type	Description	Sample Value
66	Service_Type	VARCHAR2[4]	Service type. This field can be left empty.	0
67	SERVICE_CODE	VARCHAR2[4]	Service code. This field can be left empty.	0
68	Radio_Channel_Req	NUMBER[10]	Radio channel type requested by the terminal during call connection. This field can be left empty.	-
69	Radio_Channel_Used	NUMBER[10]	Allocated radio channel type during call connection. This field can be left empty.	-
70	Speech_Version_Req	NUMBER[10]	Preferred voice version that the terminal requests the mobile station to deliver when a call is established. This field can be left empty.	-
71	Speech_Version_Used	NUMBER[10]	Voice version delivered by the mobile station during call connection. This field can be left empty.	-
72	Transparency_Indicator	VARCHAR2[2]	Indicates whether used services are transparent. This field can be left empty.	-
73	Fixed_Network_User_Rate	VARCHAR2[2]	Rate on the fixed-line network. The options are as follows: • **1**: 9.6 kbit/s • **2**: 14.4 kbit/s • **3**: 19.2 kbit/s • **4**: 28.8 kbit/s • **5**: 38.4 kbit/s • **6**: 48 kbit/s • **7**: 56 kbit/s • **8**: 64 kbit/s This field can be left empty.	-
74	Air_Interface_User_Rate_Req	VARCHAR2[2]	Rate at which subscribers request air interfaces. This field can be left empty.	0
75	User_Protocol_Indicator	VARCHAR2[2]	High-end subscriber protocol between the mobile station and network. This field can be left empty.	0
76	reserve	VARCH	This field is reserved.	0

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SN	Field Name	Field Type	Description	Sample Value
		AR2[1]	This field can be left empty.	
77	reserve	VARCHAR2[2]	This field is reserved. This field can be left empty.	0
78	reserve	VARCHAR2[2]	This field is reserved. This field can be left empty.	0
79	reserve	VARCHAR2[2]	This field is reserved. This field can be left empty.	0
80	reserve	VARCHAR2[1]	This field is reserved. This field can be left empty.	0
81	reserve	VARCHAR2[5]	This field is reserved. This field can be left empty.	0
82	reserve	VARCHAR2[10]	This field is reserved. This field can be left empty.	0
83	reserve	VARCHAR2[1]	This field is reserved. This field can be left empty.	0
84	reserve	VARCHAR2[1]	This field is reserved. This field can be left empty.	0
85	reserve	VARCHAR2[24]	This field is reserved. This field can be left empty.	0
86	TAPFILENAME	VARCHAR2[64]	CDR file name, containing the international roaming PMN code that indicates the country code and carrier information. The CDR file name is in the format CD*XXXXXYYYYYSequence number*.suffix. • **CD**: CDR file name prefix. The first two digits have a fixed value of **CD**. • *XXXXX*: PMN code of the carrier corresponding to the visited area of a roaming-out subscriber • *YYYYY*: PMN code of the carrier corresponding to the home area of a roaming-out subscriber This field cannot be left empty.	CDMYSCC00022192555.suffix
87	reserve	VARCHAR2[10]	This field is reserved. This field can be left empty.	-
88	reserve	VARCHAR2[5]	This field is reserved. This field can be left empty.	-

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SN	Field Name	Field Type	Description	Sample Value
89	ExchangeRate	NUMBER[10]	Exchange rate between the local currency and standard currency. This field can be left empty.	0
90	chargeable_unit1	NUMBER[10]	Rounding unit for the first type of service usage generated during charging. This field can be left empty.	0
91	chargeable_unit2	NUMBER[10]	Rounding unit for the second type of service usage generated during charging. This field can be left empty.	0
92	chargeable_unit3	NUMBER[10]	Rounding unit for the third type of service usage generated during charging. This field can be left empty.	0
93	reserve	VARCHAR2[1]	This field is reserved. This field can be left empty.	0
94	reserve	VARCHAR2[60]	This field is reserved. This field can be left empty.	0
95	CALL_START_TIME_TIMEZONE	NUMBER[10]	Time zone of the visited area. The information is transparently transferred and recorded in CDRs, but it does not affect rating. This field can be left empty.	0
96	TAPFILELineNo	NUMBER[10]	Line number of a CDR in a TAPIN CDR file. The file header and tail are not counted as lines. This field cannot be left empty.	12345678

2.2.6 TAPIN_GPRS CDR

This topic describes the format of offline roam-out data CDR files sent from a third-party system and normalized by the Mediation.

CDR File Name Format

TAPIN_GPRS_YYYYMMDD_SEQUENCE.unl

CDR Instance

Example of a TAPIN_GPRS CDR file name: TAPIN_GPRS_20141010_170103.unl

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15|111|0|17888500005033|17888500005033||3|20141010191433|180|20141011171433|123|1|||X|86|2|0||00|120|1024|00|180|2048|||0|0|0||0|0||0|0||0|N||||||||||||||||||127.206.174.000||||||||||20||||||||||||||||10|10|10|10|10|10|10|10|10|10||||CDAGOMV00022170103.suffix|||0|||||101|1|

CDR Quantity Limit

The number of CDRs in a CDR file cannot be greater than 100 thousand because the CDR deduplication function must be supported by each input CDR file. If a special requirement on the maximum number is raised, change the maximum setting.

CDR File Format

Table 2-6 describes the fields in the TAPIN_GPRS CDR.

Table 2-6 Fields in the TAPIN_GPRS CDR

SN	Field Name	Field Type	Description	Sample Value
1	CDR_type	VARCHAR2[2]	CDR type. **15**: GPRS This field cannot be left empty.	15
2	Fraud_Monitor_Indicator	VARCHAR2[2]	ID of a charged subscriber who is monitored due to the possibility of fraud. This field can be left empty.	111
3	IDType	NUMBER[10]	Terminal ID type. **0**: international mobile subscriber identity (IMSI) This field has a fixed value of **0**. This field can be left empty.	0
4	MSISDN	VARCHAR2[30]	Number of the charged party. The number formats are as follows: • MSISDN • International prefix + Country code + MSISDN This field can be left empty.	17888500005033
5	IMSI	VARCHAR2[15]	IMSI of the charged party. This field cannot be left empty.	17888500005033
6	IMEI	VARCHAR2[15]	International mobile equipment identity (IMEI) or electronic serial number (ESN) of the charged party. This field can be left empty.	-
7	Network_Type	VARCHAR2[2]	Network type. This field can be left empty.	3
8	START_TI	VARCH	Data service start time.	201410101

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SN	Field Name	Field Type	Description	Sample Value
	ME	AR2[14]	An external system converts the value to the OCS system time zone. This field cannot be left empty.	91433
9	DURATION	NUMBER[10]	Data service duration, in seconds. This field can be left empty.	180
10	END_TIME	VARCHAR2[14]	Data service end time. This field is left empty. An external system converts the value to the home BE time zone in the OCS. This field can be left empty.	20141011171433
11	END_CAUSE	VARCHAR2[4]	Cause for service termination. This field can be left empty.	123
12	Recording_Entity_Type	VARCHAR2[2]	Entity type. The options are as follows: • **1**: mobile switching center (MSC) • **2**: short message service center (SMSC) • **3**: gateway GPRS support node (GGSN) • **4**: serving GPRS support node (SGSN) • **5**: gateway mobile location center (GMLC) This field can be left empty.	1
13	LAC	VARCHAR2[8]	Area code of a mobile device that processes the data service. This field can be left empty.	-
14	CELL_ID	VARCHAR2[8]	ID of a cell or base station. This field can be left empty.	-
15	charged_Item1	VARCHAR2[2]	Type of the first charging item group in the charging information list. The options are as follows: • **A**: call attempt • **C**: content-based charging • **D**: duration-based charging • **E**: event-based charging • **F**: one-off charging • **I**: cross-network charging • **N**: no charging • **V**: charging by upstream traffic • **W**: charging by downstream traffic	X

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SN	Field Name	Field Type	Description	Sample Value
			• **X**: charging by total traffic This field cannot be left empty.	
16	Called_Country_Code	VARCHAR2[10]	Country code of the called party. This field can be left empty.	86
17	Call_Type_Level1	VARCHAR2[2]	Level-1 call type. The options are as follows: • **1**: national • **2**: international This field can be left empty.	2
18	Call_Type_Level2	VARCHAR2[2]	Level-2 call type. The options are as follows: • **0**: unknown • **1**: mobile • **2**: fixed-line network • **3**: irrelevant to location • **4**: premium rate This field can be left empty.	0
19	Call_Type_Level3	VARCHAR2[2]	Level-3 call type. The items in this category are sub-items of the level-2 category. • Value **1** is restricted for local calls and shall not be used for any other category within the VPMN's IOT. • All other values are as defined within the VPMN's IOT. This field can be left empty.	-
20	charge_Type11	VARCHAR2[4]	Charge code of the first charging item in the first charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN	00

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SN	Field Name	Field Type	Description	Sample Value
			• **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period The service usage fee for a charged party is calculated based on the values of **charGE1***X* (such as **charGE11**, **charGE12**, and **charGE13**), **charGE2***X* (such as **charGE21**, **charGE22**, and **charGE23**), and **charge_Type**. Each charging item group (**charge_Type**) corresponds to a charGE value, for example, **charge_Type12** corresponds to **charGE12**. The calculation methods are as follows: • If none of the values of **charge_Type1***X* and **charge_Type2***X* is **00**, the calculation formula is as follows: Total fee = **charGE11** + **charGE12** + **charGE13** + **charGE21** + **charGE22** + **charGE23**. • If one of the values of **charge_Type1***X* and **charge_Type2***X* is **00**, for example, when the value of **charge_Type12** is **00**, the calculation formula is as follows: Total fee = **charGE12** + **charGE21** + **charGE22** + **charGE23**. • If multiple values of **charge_Type1***X* and **charge_Type2***X* are **00**, the total fee is the sum of the **charGE** values corresponding to the first **charge_Type1***X* and **charge_Type2***X* whose values are **00**. For example, when the value of **charge_Type11** is **00**, **charge_Type12** is **04**, **charge_Type13** is **00**, **charge_Type21** is **05**, **charge_Type22** is **00**, and **charge_Type23** is **00**, the calculation formula is as follows: Total fee = **charGE11** + **charGE22**. This field can be left empty.	

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SN	Field Name	Field Type	Description	Sample Value
21	charGE11	NUMBER[20]	Charged amount of the first charging item in the first charging item group. This field can be left empty.	120
22	charge_Units11	NUMBER[10]	Unit of the first charging item in the first charging item group. This field can be left empty.	1024
23	charge_Type12	VARCHAR2[4]	Charge code of the second charging item in the first charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period This field can be left empty.	00
24	charGE12	NUMBER[20]	Charged amount of the second charging item in the first charging item group. This field can be left empty.	180
25	charge_Units12	NUMBER[10]	Unit of the second charging item in the first charging item group. This field can be left empty.	2048
26	charge_Type13	VARCHAR2[4]	Charge code of the third charging item in the first charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved	-

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SN	Field Name	Field Type	Description	Sample Value
			• **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period This field can be left empty.	
27	charGE13	NUMBER[20]	Charged amount of the third charging item in the first charging item group. This field can be left empty.	-
28	charge_Units13	NUMBER[10]	Unit of the third charging item in the first charging item group. This field can be left empty.	0
29	charged_Item2	VARCHAR2[2]	Type of the second charging item group in the charging information list. The options are as follows: • **A**: call attempt • **C**: content-based charging • **D**: duration-based charging • **E**: event-based charging • **F**: one-off charging • **I**: cross-network charging • **N**: no charging • **V**: charging by upstream traffic • **W**: charging by downstream traffic • **X**: charging by total traffic This field can be left empty.	0
30	charge_Type21	VARCHAR2[4]	Charge code of the first charging item in the second charging item group. The options are as follows: • **00**: total fee that can be invoiced	0

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SN	Field Name	Field Type	Description	Sample Value
			• **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period This field can be left empty.	
31	charGE21	NUMBER[20]	Charged amount of the first charging item in the second charging item group. This field can be left empty.	-
32	charged_Units21	NUMBER[10]	Unit of the first charging item in the second charging item group. This field can be left empty.	0
33	charge_Type22	VARCHAR2[4]	Charge code of the second charging item in the second charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the	0

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SN	Field Name	Field Type	Description	Sample Value
			charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period This field can be left empty.	
34	charGE22	NUMBER[20]	Charged amount of the second charging item in the second charging item group. This field can be left empty.	-
35	charged_Units22	NUMBER[10]	Unit of the second charging item in the second charging item group. This field can be left empty.	0
36	charge_Type23	VARCHAR2[4]	Charge code of the third charging item in the second charging item group. The options are as follows: • **00**: total fee that can be invoiced • **01**: total call fee • **02**: reserved • **03**: toll call fee • **04**: directory assistance service • **05**: directory assistance after a call • **06-13**: reserved • **14**: voice mailbox deposits • **15**: voice mailbox compensation • **16-20**: reserved • **21**: additional fee of the VPMN • **69-99**: reserved • **100**: total fee generated during the charging detail rating period • **101**: total call fee generated during the charging detail rating period • **102**: toll call fee generated during the charging detail rating period This field can be left empty.	0
37	charGE23	NUMBER[20]	Charged amount of the third charging item in the second charging item group. This field can be left empty.	-
38	charged_Units23	NUMBER[10]	Unit of the third charging item in the second charging item group. This field can be left empty.	0

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SN	Field Name	Field Type	Description	Sample Value
39	Day_Category	VARCHAR2[4]	Preferential day type. The options are as follows: • **N**: workday • **I**: national independence day • **P**: public holiday • **R**: weekend This field can be left empty.	N
40	Category_Subtype	VARCHAR2[4]	Subtype associated with **Day Category**. This field is defined by the carrier corresponding to the visited area of a roaming subscriber. This field can be left empty.	-
41	Time_Band	VARCHAR2[4]	Charging time segment associated with **Charge Detail** and **Charge Detail Timestamp**. This field is defined by the carrier corresponding to the visited area of a roaming subscriber. If **Charge Detail Timestamp** is not provided, this field indicates the time segment corresponding to **Charging Timestamp** associated with **Charging Information**. The carrier corresponding to the visited area can set **Time_Band_Subtype** to further specify the charging time segment. This field can be left empty.	-
42	Time_Band_Subtype	VARCHAR2[4]	Charging time segment subtype. This field is defined by the carrier corresponding to the visited area of a roaming subscriber. This field can be left empty.	-
43	Multiate_Indicator	VARCHAR2[2]	Indicates whether the type of the preferential day or preferential time segment changes during charging. A flag indicating that a Charge Detail began during the related Day Category and Time Band and spanned a change of either of those items. This field can be left empty.	-
44	Tax_Type	VARCHAR2[4]	Tax type. Tax type associated with Tax Rate Code and Tax Rate. The options are as follows:	-

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SN	Field Name	Field Type	Description	Sample Value
			• **01**: national tax • **02**: regional tax • **03**: county tax • **04**: local or city tax • **05**: provincial tax. • **06**: dominion tax • **07**: gross receipts tax • **08**: absolute or fixed tax (no tax rate specified) • **09**: public utility tax • **10**: sales and use tax • **11**: excise tax • **12**: communications tax • **13**: value added tax (VAT) • **14**: harmonized sales tax This field can be left empty.	
45	Tax_Rate	NUMBER[10]	Tax rate for a specific tax type and code. According to some national laws and regulations, taxes must be collected based on the tax rate corresponding to the invoice date. If invoice generation is postponed, the tax rate in the invoice may be different from the tax rate that is transferred. However, the occurrence rate of this situation is extremely low. This field is mandatory unless the fixed tax rate is used. The value is precise to five decimal places and ranges from 00.00000 to 99.99999. This field can be left empty.	-
46	Tax_Value	NUMBER[20]	Actual tax amount. The value must be equal to or greater than 0 and the number of decimal places is specified by TAP Decimal Places. The value is in SDRs. This field can be left empty.	-
47	Discount_Type	NUMBER[10]	Discount type. The options are as follows: • **0**: discount rate • **1**: fixed discount value This field can be left empty.	-

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SN	Field Name	Field Type	Description	Sample Value
48	Discount_Rate	NUMBER[10]	Discount rate. This field can be left empty.	-
49	Discount_Value	NUMBER[20]	Discount amount. This field can be left empty.	-
50	CAMEL_Service_Address	VARCHAR2[8]	Customized Applications for Mobile Network Enhanced Logic (CAMEL) server address. This field can be left empty.	-
51	CAMEL_Service_Level	VARCHAR2[4]	CAMEL service level. This field can be left empty.	-
52	CAMEL_Service_Key	VARCHAR2[4]	CAMEL service key value. This field can be left empty.	-
53	Default_Call_Handling_Indicator	VARCHAR2[2]	Default call processing ID of the CAMEL. This field can be left empty.	-
54	CAMEL_MSC_Address	VARCHAR2[15]	MSC address of the CAMEL. This field can be left empty.	-
55	CAMEL_Reference_Num	NUMBER[20]	CAMEL activation flag. This field can be left empty.	-
56	CAMEL_Initiated_Indicator	VARCHAR2[2]	Indicates whether the call is a forwarded call initiated by the CAMEL server. This field can be left empty.	-
57	CAMEL_Modification	VARCHAR2[2]	Indicates whether a call is initiated when the CAMEL protocol is used. This field can be left empty.	-
58	CSE_Info	VARCHAR2[40]	Information downloaded from the CAMEL server. This field can be left empty.	-
59	SGSN	VARCHAR2[15]	Address of the serving GPRS support node (SGSN). This field can be left empty.	127.206.174.000
60	GGSN	VARCHAR2[15]	Address of the gateway GPRS support node (GGSN). This field can be left empty.	-
61	GPRS_Conn_Type	NUMBER[10]	GPRS connection type. • **0**: Global System for Mobile Communications (GSM)	-

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SN	Field Name	Field Type	Description	Sample Value
			• **1**: Universal Mobile Telecommunications System (UMTS) This field can be left empty.	
62	Ctrl_Node	NUMBER[10]	Control node type. The options are as follows: • **0**: combination of the SGSN and GGSN nodes • **1**: SGSN • **2**: GGSN This field can be left empty.	-
63	PDP_Type	NUMBER[10]	Packet Data Protocol (PDP) session type. This field can be left empty.	-
64	PDP_Address	VARCHAR2[20]	PDP address. This field can be left empty.	-
65	APNNI	VARCHAR2[63]	Network ID of an access point. This field can be left empty.	-
66	APNOI	VARCHAR2[37]	Carrier ID of an access point. This field can be left empty.	-
67	Partial_Type	VARCHAR2[1]	ID of a partial CDR. This field can be left empty.	-
68	PDP_Start_Time	VARCHAR2[14]	PDP session start time. This field can be left empty.	-
69	Network_Init_PDP	NUMBER[10]	Type of the network created by a PDP session. This field can be left empty.	20
70	charging_ID	NUMBER[10]	Charging ID. This field can be left empty.	-
71	Data_Volume_Incoming	NUMBER[10]	Received traffic. This field can be left empty.	-
72	Data_Volume_Outgoing	NUMBER[10]	Sent traffic. This field can be left empty.	-
73	QOS_REQ_Alloc_Reten_Prior	NUMBER[10]	Allocation or retention priority of the wireless access during GPRS connection in the Universal Mobil Telecommunications System (UMTS). This field can be left empty.	-

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SN	Field Name	Field Type	Description	Sample Value
74	QOS_USED_Alloc_Reten_Prior	NUMBER[10]	Indicates whether the allocation or retention priority of the wireless access is used during GPRS connection in the UMTS. This field can be left empty.	-
75	QOS_REQ_Guar_Dlink	VARCHAR2[10]	Request bit rate that must be provided by the UMTS bearer service for customers or applications to use in the download service. This field can be left empty.	-
76	QOS_USED_Guar_Dlink	VARCHAR2[10]	Actual bit rate that must be provided by the UMTS bearer service for customers or applications to use in the download service. This field can be left empty.	-
77	QOS_REQ_Guar_Ulink	VARCHAR2[10]	Request bit rate that must be provided by the UMTS bearer service for customers or applications to use in the upload service. This field can be left empty.	-
78	QOS_USED_Guar_Ulink	VARCHAR2[10]	Actual bit rate that must be provided by the UMTS bearer service for customers or applications to use in the upload service. This field can be left empty.	-
79	QOS_REQ_Max_Dlink	VARCHAR2[10]	Maximum download request bit rate during GPRS connection in the UMTS. This field can be left empty.	-
80	QOS_USED_Max_Dlink	VARCHAR2[10]	Actual maximum download bit rate during GPRS connection in the UMTS. This field can be left empty.	-
81	QOS_REQ_Max_Ulink	VARCHAR2[10]	Maximum upload request bit rate during GPRS connection in the UMTS. This field can be left empty.	-
82	QOS_USED_Max_Ulink	VARCHAR2[10]	Actual maximum upload bit rate during GPRS connection in the UMTS. This field can be left empty.	-
83	QOS_REQ_Traff_Class	NUMBER[10]	Request application type during GPRS connection in the UMTS. This field can be left empty.	-
84	QOS_USED	NUMBE	Actual application type during GPRS	-

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SN	Field Name	Field Type	Description	Sample Value
	_Traff_Class	R[10]	connection in the UMTS. This field can be left empty.	
85	QOS_REQ_ Delay	NUMBER[10]	Request transmission delay during GPRS connection. This field can be left empty.	10
86	QOS_USED _Delay	NUMBER[10]	Actual transmission delay during GPRS connection. This field can be left empty.	10
87	QOS_REQ_ Mean Throughput	NUMBER[10]	Minimum request throughput during GPRS connection. This field can be left empty.	10
88	QOS_USED _Mean Throughput	NUMBER[10]	Actual minimum throughput during GPRS connection. This field can be left empty.	10
89	QOS_REQ_ peak Throughput	NUMBER[10]	Maximum request throughput during GPRS connection. This field can be left empty.	10
90	QOS_USED _peak Throughput	NUMBER[10]	Actual maximum throughput during GPRS connection. This field can be left empty.	10
91	QOS_REQ_ precedence	NUMBER[10]	Request priority during GPRS connection. • **0**: not specified • **1**: high • **2**: medium • **3**: low This field can be left empty.	10
92	QOS_USED _precedence	NUMBER[10]	Actual priority during GPRS connection. • **0**: not specified • **1**: high • **2**: medium • **3**: low This field can be left empty.	10
93	QOS_REQ_r eliability	NUMBER[10]	Request reliability during GPRS connection. This field can be left empty.	10
94	QOS_USED _reliability	NUMBER[10]	Actual reliability during GPRS connection.	10

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SN	Field Name	Field Type	Description	Sample Value
			This field can be left empty.	
95	Reserve	VARCHAR2[1]	This field is reserved. This field can be left empty.	-
96	Reserve	VARCHAR2[1]	This field is reserved. This field can be left empty.	-
97	Reserve	VARCHAR2[24]	This field is reserved. This field can be left empty.	-
98	TAPFILENAME	VARCHAR2[64]	CDR file name, containing the international roaming PMN code that indicates the country code and carrier information. The CDR file name is in the format CD*XXXXXYYYYYSequence number*.suffix. • **CD**: CDR file name prefix. The first two digits have a fixed value of **CD**. • XXXXX: PMN code of the carrier corresponding to the visited area of a roaming-out subscriber • YYYYY: PMN code of the carrier corresponding to the home area of a roaming-out subscriber This field cannot be left empty.	CDAGOMV00022170103.suffix
99	reserve	VARCHAR2[10]	This field is reserved. This field can be left empty.	-
100	Service_Type	VARCHAR2[5]	Service type. This field can be left empty.	-
101	ExchangeRate	NUMBER[10]	Exchange rate between the local currency and standard currency. This field can be left empty.	0
102	chargeable_unit1	NUMBER[10]	Rounding unit for the first type of service usage generated during charging. This field can be left empty.	-
103	chargeable_unit2	NUMBER[10]	Rounding unit for the second type of service usage generated during charging. This field can be left empty.	-
104	chargeable_unit3	NUMBER[10]	Rounding unit for the third type of service usage generated during charging. This field can be left empty.	-
105	reserve	VARCHAR2[1]	This field is reserved.	-

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SN	Field Name	Field Type	Description	Sample Value
			This field can be left empty.	
106	CALL_START_TIME_TIMEZONE	NUMBER[10]	Time zone of the visited area. The information is transparently transferred and recorded in CDRs, but it does not affect rating. This field can be left empty.	101
107	TAPFILELineNo	NUMBER[10]	Line number of a CDR in a TAPIN CDR file. The file header and tail are not counted as lines. This field cannot be left empty.	1

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3 CDR Files Generated in the OCG

About This Chapter

This topic describes the file storage directories, file name formats, CDR fields, and field sequences of different types of CDRs generated in the OCG.

3.1 Basic Information About OCG CDR Files

This topic describes basic information such as the file name formats and file storage directories of CDRs generated in the OCG.

3.1.1 CDR Storage Directories in OCG

CDR Storage Directories

The CDR files are stored in the following directories:

- Destination directory: **${ENIP_HOME}/record/cdr/w_vou/send**

  It is the destination directory for storing CDR files after the CDR files meet the switching conditions.
- Temporary directory: **${ENIP_HOME}/record/cdr/w_vou/buffer**

  It is the directory for storing temporary CDR files before the CDR files meet the switching conditions.
- Backup directory: **${ENIP_HOME}/record/cdr/w_vou/bak**

  It is the directory for backing up CDRs obtained from the destination directory. CDRs can be used to locate problems.

In the preceding directories, **${ENIP_HOME}** refers to the installation directory of the OCG.

NOTE

w_vou is the prefix of CDR file name.

Set the directory for storing CDR files.

To set the directory for storing CDR files, you can perform the following operations: In the service view of the iCnfg, choose **Service Related Configuration** > **CDR Configuration** > **CDR Charging Data Configuration**. In the window that is displayed, set **Directory name**.

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Set the number of CDR events and CDR event interval for triggering CDR file writing

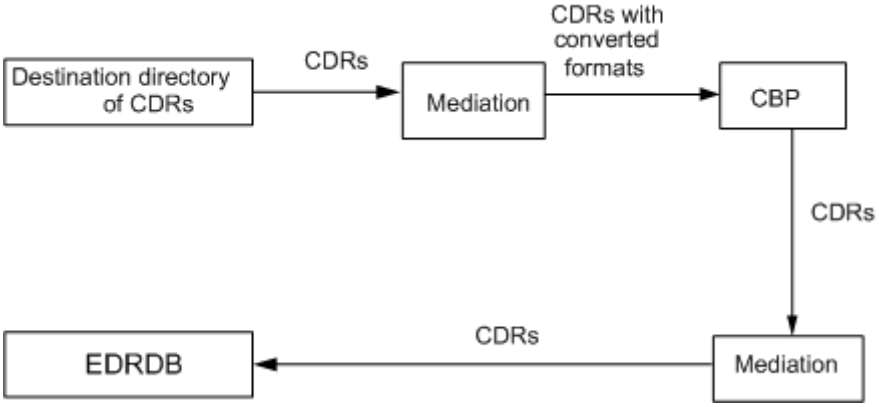
To set the number of CDR events and CDR event interval for triggering CDR file writing, do as follows: In the service view of the iCnfg, choose **Service Related Configuration** > **CDR Configuration** > **CDR Basic Configuration**. In the window that is displayed, set **Number of triggering records for writing cdr file** (indicating the number of records for triggering CDR file writing) and **Interval for triggering writing cdr file (s)** (indicating the CDR event interval for triggering CDR file writing).

3.1.2 Process of Generating offline CDRs in the OCG

This topic describes the process of generating offline CDR files in the OCG.

Figure 3-1 shows the OCG offline CDR processing process.

Figure 3-1 OCG offline CDR processing process



OCG offline CDRs are processed as follows:

1. The Mediation obtains CDRs periodically from the destination directory according to configurations, and then transfers them to the CBP.
2. The CBP generates a CDR after charging.
3. The Mediation preprocesses the CDR files and uploads them to the EDRDB system for CDR sorting, storage, accumulation, and collection.

3.1.3 File Name Format of OCG-Generated CDRs

In the Online Mediation service, CDRs generated by the service can be regarded as CDR logs. The OCG CDR file name is in the following format:

{CDR prefix}{xxxxx}.{YYYYMMDD}.{NEID}.{Index number}{CDR file name extension}

Table 3-1 describes fields in a OCG-generated CDR file name.

Table 3-1 Description of fields in a OCG-generated CDR file name

Field	Description

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Field	Description
CDR prefix	Indicates the prefix of a CDR file name and refers to the CDR type. CDRs can be distinguished based on CDR file name prefixes.
xxxxx	*xxxxx* indicates five-digit CBE node ID. The system prefixes zeros if the node ID is less than five digits. If this field is set to **0**, it can be omitted.
YYYYMMDD	Indicates the date when a CDR file is generated.
NEID	Indicates the ID of the Routing that generates a CDR file. The serial number is a numeric string of five digits.
Index number	Indicates the serial number of a CDR file in a day. The serial number is a string of six characters. Value range: 000000 to 999999.
CDR file name extension	Indicates the extension of a CDR file name. The extension is **.unl** by default.

Example of OCG CDRs file name

- w_abr.20130515.10002.000001.unl

  It indicates that the CDR with the serial number 000001, and node id 10002 in the Service generated the w_abr CDR file on May 15, 2013.
- w_rec10101.20150315.01001.000018.unl

  It indicates that the CDR with the serial number 000018, NEID 01001, and CBE node id 10101 in the Service generated the w_rec CDR file on May 15, 2015.
- w_vou.20150724.01001.000034.unl

  It indicates that the CDR with the serial number 000034, and node id 01001 in the Service generated the w_vou CDR file on July 24, 2015.

Related Configuration

- Set the time type in the CDR file name

  To set the time type in the CDR file name, you can perform the following operations: In the service view of the iCnfg, choose **Service Related Configuration** > **CDR Configuration** > **CDR Charging Data Configuration**. In the window that appears, set **Format of time in CDR file name**.
- Set whether CDR file name carries the node ID

  On the iCnfg Service view, select **Generate NodeID in file name** after choosing **Service Related Configuration** > **CDR Configuration** > **CDR Charging Data Configuration**. You can configure whether CDR file name carries the node ID.

3.1.4 Requirements on OCG-Generated CDR Files

OCG will generate a new record file, when the size, duration, and record count of current file matches this configuration value.

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OCG will generate a new record file, when matching one of these three conditions:

- 1. The file size matches the configuration value of "Max. size of a CDR file".
- 2. The file generation matches the configuration value of "Max. duration of a CDR file".
- 3. The file records count matches the configuration value of "Max. record count of a CDR file".

Set the Max. size of a CDR file

To set the Max. size of a CDR file, you can perform the following operations: In the service view of the iCnfg, choose **Service Related Configuration** > **CDR Configuration** > **CDR Charging Data Configuration**. In the window that is displayed, set **Max. size of a CDR file**.

Set the Max. duration of a CDR file

To set the Max. duration of a CDR file, you can perform the following operations: In the service view of the iCnfg, choose **Service Related Configuration** > **CDR Configuration** > **CDR Charging Data Configuration**. In the window that is displayed, set **Max. duration of a CDR file**.

Set the Max. record count of a CDR file

To set the Max. record count of a CDR file, you can perform the following operations: In the service view of the iCnfg, choose **Service Related Configuration** > **CDR Configuration** > **CDR Charging Data Configuration**. In the window that is displayed, set **Max. record count of a CDR file**.

3.1.5 Configuring the Function of Automatically Deleting CDRs by the OCG

If the system does not automatically obtain CDRs, the OCG needs to automatically delete the CDRs to prevent the system memory from being occupied. This topic describes how to configure the function of automatically deleting CDRs by the OCG.

Procedure

Step 1 Log in to the I2000.

1. Enter the following URL in the address box of the Internet Explorer:

   https://*10.10.10.10*:*31943*

   In the URL, *10.10.10.10* and *31943* are the IP address and port number of the I2000. Change the information based on the site requirements.
2. Enter the user name and password in the window that is displayed.

   The default user name is **admin**.
3. Choose **Monitor** > **Topology Management** > **Service Topology**.
4. Click **BCM Topology**.

   The **BCM Topology** page appears.
5. On the **BCM Topology** page, double-click the blank area of the logic layer. The topology view of the logic layer is displayed.
6. In the navigation tree on the left and select the NE. Click **SEE**, right-click the NE on the right, choose **Management**.

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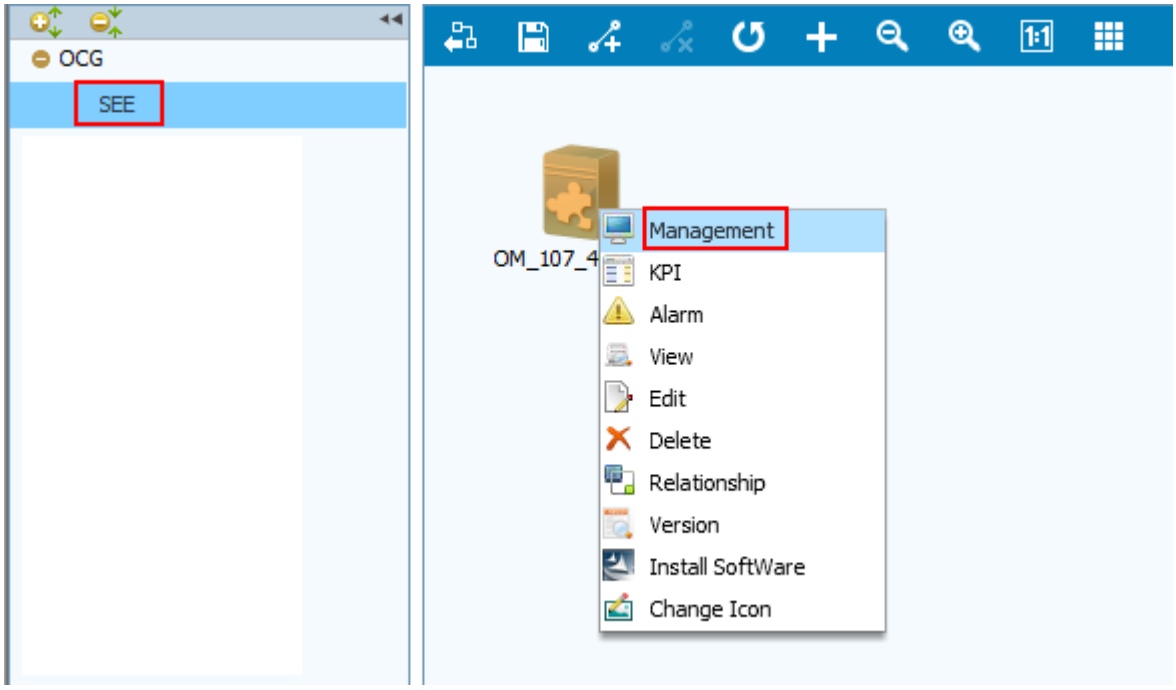
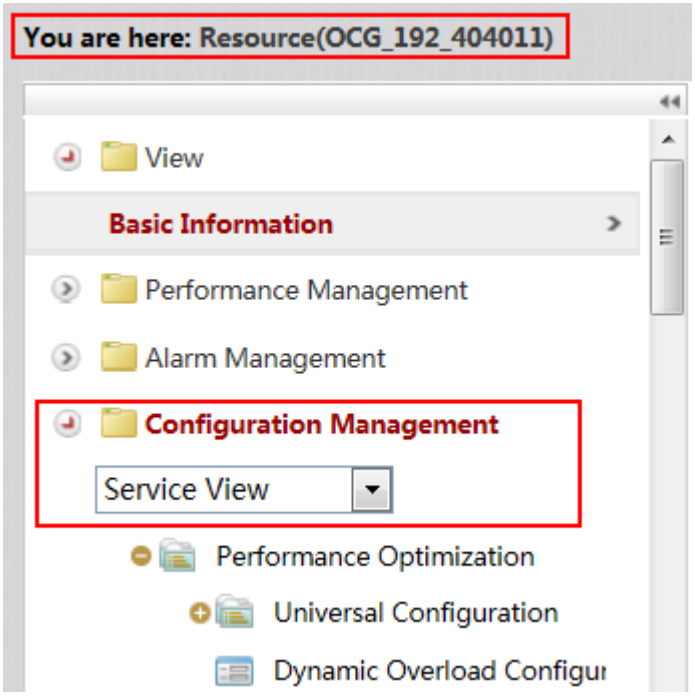
Figure 3-2 Select the management



7. In the **You are here: Resource(xxxxx)** window, click **Configuration Management** and select **Service View**.



Step 2 Choose **Service Related Configuration** > **CDR Configuration** > **CDR Basic Configuration** and configure the table.

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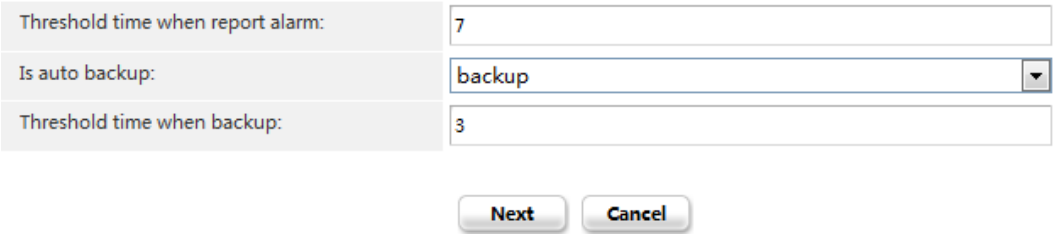

Parameter	Setting
Threshold time when report alarm	Threshold time of non-moved cdr files in **send** directory. Unit: Day. Value range: an integer ranging from 1 to 30. For example: 7.
Is auto backup	Indicates whether to back up the CDR file automatic. For example: backup.
Threshold time when backup	Threshold time of auto backup of non-moved cdr files in **send** directory. Unit: Day. Value range: an integer ranging from 1 to 30. For example: 3.

----End

3.1.6 Configuring the w_notify CDR

Procedure

Step 1 Log in to the I2000.

1. Enter the following URL in the address box of the Internet Explorer:

   https://*10.10.10.10*:*31943*

   In the URL, *10.10.10.10* and *31943* are the IP address and port number of the I2000. Change the information based on the site requirements.
2. Enter the user name and password in the window that is displayed.

   The default user name is **admin**.
3. Choose **Monitor** > **Topology Management** > **Service Topology**.
4. Click **BCM Topology**.

   The **BCM Topology** page appears.
5. On the **BCM Topology** page, double-click the blank area of the logic layer. The topology view of the logic layer is displayed.
6. In the navigation tree on the left and select the NE. Click **SEE**, right-click the NE on the right, choose **Management**.
7. In the **You are here: Resource(xxxxx)** window, click **Configuration Management** and select **Service View**.

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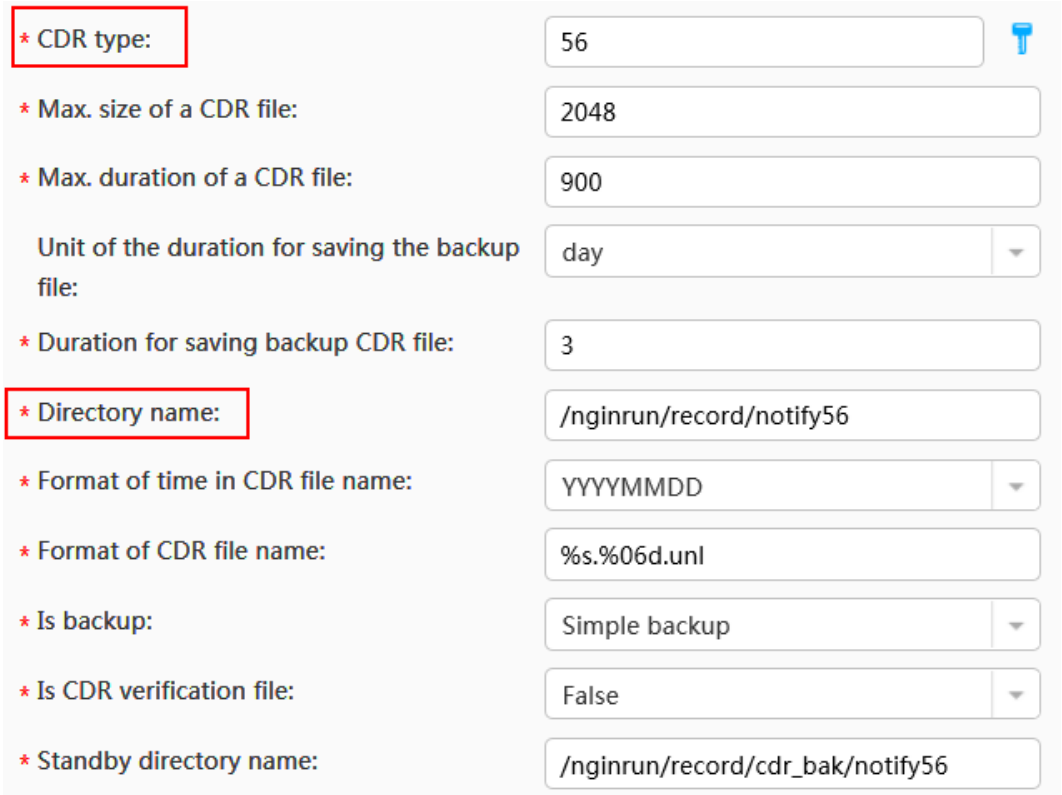
Step 2 Choose **Service View of SEE** > **Service Related Configuration** > **CDR Configuration** > **CDR Charging Data Configuration**.

Step 3 Click **Add**, and configure the parameters, as shown in Figure 3-3.

Figure 3-3 Configuring the parameters



Parameter	Setting
CDR type	Description: Type of the CDR. For w_notify cdr, set the parameter to **56**.
Directory name	Description: Directory of the CDR file. For example, /nginrun/record/notify56 **NOTE** Configure the parameter according to the actual directory.

NOTE
Configure the other parameters according to the actual requirement.

Step 4 Click **OK**.

Step 5 Click **Apply**.

----End

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3.1.7 Configuring the w_cmb CDR

Procedure

Step 1 Log in to the I2000.

1. Enter the following URL in the address box of the Internet Explorer:

   https://*10.10.10.10*:*31943*

   In the URL, *10.10.10.10* and *31943* are the IP address and port number of the I2000. Change the information based on the site requirements.
2. Enter the user name and password in the window that is displayed.

   The default user name is **admin**.
3. Choose **Monitor** > **Topology Management** > **Service Topology**.
4. Click **BCM Topology**.

   The **BCM Topology** page appears.
5. On the **BCM Topology** page, double-click the blank area of the logic layer. The topology view of the logic layer is displayed.
6. In the navigation tree on the left and select the NE. Click **SEE**, right-click the NE on the right, choose **Management**.
7. In the **You are here: Resource(xxxxx)** window, click **Configuration Management** and select **Service View**.

Step 2 Choose **Service View of SEE** > **Service Related Configuration** > **CDR Configuration** > **CDR Charging Data Configuration**.

Step 3 Click **Add**, and configure the parameters, as shown in Figure 3-4.

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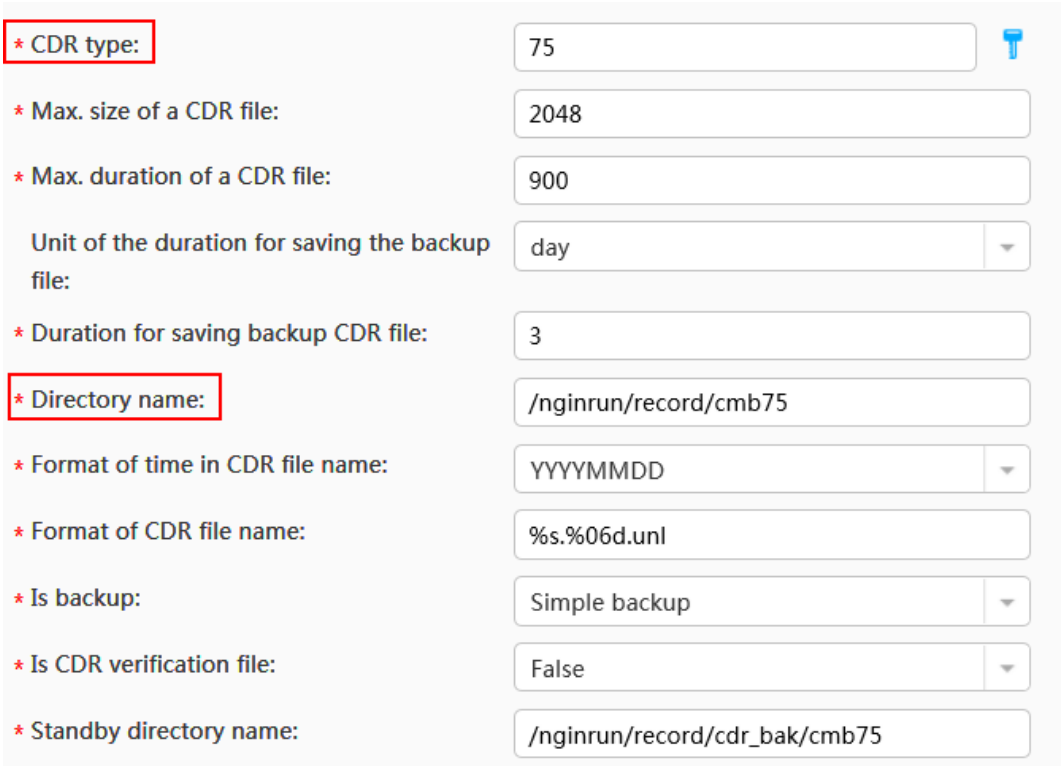
Figure 3-4 Configuring the parameters



Parameter	Setting
CDR type	Description: Type of the CDR. For w_cmb cdr, set the parameter to **75**.
Directory name	Description: Directory of the CDR file. For example, /nginrun/record/cmb75 **NOTE** Configure the parameter according to the actual directory.

NOTE
Configure the other parameters according to the actual requirement.

Step 4 Click **OK**.

Step 5 Click **Apply**.

----End

3.2 OCG-Generated CDR

This topic describes the file name format, CDR fields, field sequence, and service scenarios of different types of CDRs generated in the OCG.

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NOTE

Offline CDRs can be customized in the OCG. To customize an offline CDR, configure information such as the CDR generation component and CDR type under **NGOCG** > **Basic** > **CDR** > **CDR Type Info**, and then configure information such as output CDR fields under **NGOCG** > **Basic** > **CDR** > **CDR Output Field Control**.

Alternatively, you can configure the information in the **ocg_cdrtype** and **ocg_cdroutinfo** tables in the background.

3.2.1 w_abr CDR

When an error occurs during the interaction between the Routing and the CBP, w_abr CDR records the information if the system allows a subscriber to go on using the call service. The CBE rates and deducts fees based on the CDR after the CBE recovers.

Generation Scenario

In the MO, MT, or MF process, the Routing generates a w_abr CDR if the system allows a subscriber to go on using the call service when an error occurs during the interaction between the Routing and the CBP.

CDR File Name Format

{w_abr}.{YYYYMMDD}.{NEID}.{Index number}.unl

CDR Instance

Example of a w_abr CDR file name: w_abr.20130515.10002.000001.unl

91|1147732910|00861360000001|00861360000002|||20130620144700|0|00861360000002|00861360000002|0||0086133|0000000000000000||||||2|||0|460070360000012|20160818100227404011160500 20|86133|8|20160818100227|260|0|260|0|2001|0||||||-1|0|2|2|0|2|0|0|00861360000002||1|0||0|101|1|4|1|||||||

CDR File Format

Table 3-2 Format of w_abr CDR

SN	Field Name	Field Type	Description	Value
1	ServiceKey	Integer	Indicates the service key. The options are as follows: • GSM network: The value of the field is **91**. • CDMA network: The value of the field is **13100**. • SIP network: The value of the field is **103**. • SINAP network: The value of the field is **104**. • INAPCS1+ network: The value of the field is **105**.	91

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SN	Field Name	Field Type	Description	Value
			Not null.	
2	SubCosID	Integer	Indicates the main product of a subscriber. Not null.	1147732910
3	CallingPartyNumber	Char[32]	Indicates the calling number. **NOTE** The value of this parameter is the IDP original reported value.	00861360000001
4	CalledPartyNumber	Char[32]	Indicates the called number. The called number that is reported by the SSP and is not converted. **NOTE** The value of this field is a number reported by the OCG but not an original number.	00861360000002
5	Calling-Party-NP	Char[16]	Indicates the number portability prefix of the calling number. It refers to the routing prefix of the calling number after the calling party transfers from one network to another. Can be null.	-
6	Called-Party-NP	Char[16]	Indicates the number portability prefix of the called number. It refers to the routing prefix of the called number after the called party transfers from one network to another. Can be null.	-
7	SSP-Time	Char[14]	Indicates the time reported by the SSP. Format: YYYYMMDDhhmmss **NOTE** This field value in all versions is GMT time.	20130620144700
8	MF-Indicator	Integer	Indicates the indicator of called forwarding. The options are as follows: • 0: Not forward	0

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SN	Field Name	Field Type	Description	Value
			• 1: Forward	
9	Real-Called-Number	Char[32]	Indicates the real called number. The numbers stripped off various prefixes. Not Null.	00861360000002
10	Connect-Called-Number	Char[32]	Indicates the called number for connection. For example, when an IP address is preset, the value of **Connect-Called-Number** is in the format *IP prefix + called number*.	00861360000002
11	Charge-Flow-Type	Integer	Indicates the charge process type. The options are as follows: • 0: The calling process • 1: The called process • 3: The forwarding process	0
12	Calling-Partys-Category	Integer	Indicates the category of the calling party. Example: a carrier, a public call office, or a user. The value of the field **Calling-Partys-Category** depends on the value of the variable **CAP_InitialDP_callingPartysCategory**.	-
13	Calling-Vlr-Number	Char[32]	Indicates the VLR number of the visitor location of the calling party. The field can be null in the called process and forwarding process.	0086133
14	CallingCellID	Char[32]	Indicates the cell ID of the calling party. The field can be null in the called process and forwarding process. **NOTE** Choose **NG OCG** > **Basic** > **System Configuration** >	00000000000000000

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SN	Field Name	Field Type	Description	Value
			System Control. Click to display the **Settings** page. Click next to **System Flag** and view the value of **Record Subscribe Location Info**. • If **Record Subscribe Location Info** is set to **Yes**, this field records location information. • If **Record Subscribe Location Info** is set to **No**, this field is recorded as a string of asterisks (*).	
15	Called-Vlr-Number	Char[32]	Indicates the VLR number of the visitor location of the called party. The field can be null in the calling process and forwarding process.	-
16	CalledCellID	Char[32]	Indicates the cell ID of the called party. The field can be null in the calling process and forwarding process. **NOTE** Choose **NG OCG** > **Basic** > **System Configuration** > **System Control**. Click to display the **Settings** page. Click next to **System Flag** and view the value of **Record Subscribe Location Info**. • If **Record Subscribe Location Info** is set to **Yes**, this field records location information. • If **Record Subscribe Location Info** is set to **No**, this field is recorded as a string of asterisks (*).	-
17	Original-Called-Party-Id	Char[32]	Indicates the original called number. • In the forwarding process, the MSC reports the original called number. • In the calling process,	-

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SN	Field Name	Field Type	Description	Value
			the MSC does not report the original called number. Therefore, the field is null.	
18	Additional-Calling-Party-Number	Char[64]	Indicates the additional calling number.	-
19	Bearer-Capability	Char[32]	Indicates the bearer capacity of subscriber connection.	-
20	EventType-BCSM	Integer	Indicates the event report. Can be null. • 2: MO/MF • 12: MT • 101: Initial • 102: Update • 103: Termination • 104: Direct debit	2
21	Redirecting-Party-Id	Char[32]	Indicates the redirection number in the forwarding process. It is the calling number in the forwarding process. • In the forwarding process, the MSC reports the redirection number. • In the calling process, the MSC does not report the redirection number. Therefore, the field is null.	-
22	Redirection-Information	Char[36]	Indicates the redirection information. It is used in the forwarding process.	-
23	Redirection-Reason	Integer	Indicates the forwarding reason. The options are as follows: CDMA: • 0: Not forward • 1: Forward unconditionally • 2: Forward on the busy mobile • 3: Forward on no reply	0

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SN	Field Name	Field Type	Description	Value
			• 4: Other • 22: Forward unreachable GSM: • 0: Not forward • 1: Forward on the busy mobile • 2: Forward on no reply • 3: Forward unconditionally • 4: Other • 6: Forward unreachable	
24	UE-IMSI	Char[20]	Indicates the IMSI of the calling party. Can be null.	460070360000012
25	CallReference Number	Char[128]	Indicates the reference number of a call. It is used to uniquely identify a call. The options are as follows: • For the CDMA network, obtain the value of **BillID** in the ORREQ message for this field. • For the GSM network, obtain the value of **CallReferenceNumber** that is reported in the IDP signaling for this field. • For the NGN and IMS networks, obtain the value of **Call-ID** that is reported in the SIP signaling for this field. • If the system cannot obtain the required information (excluding the preceding conditions), the value of this field is in the format *YYYYMMDDhhmmss* (14 digits) + *NE ID* (6-8 digits) + *hostid* + *container ID* + *Index* (4 digits). **NOTE** If the length of the automation number is less than four digits,	2016081810022740401116050020

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SN	Field Name	Field Type	Description	Value
			prefix 0 to the automation number. If the length of the automation number is more than four digits, obtain the last four digits from the automation number. In the UK VDF voice process, this field records the value of **Chargeable-Event-Id**.	
26	MSC-Address	Char[32]	Indicates the MSC address.	86133
27	Time-Zone	Integer	Indicates the time zone of the area where a subscriber is.	8
28	CallBeginTime	Char[14]	Indicates the time of the calling beginning. Format: YYYYMMDDhhmmss **NOTE** • In KPNI and Telcom versions, this field value is local system time. • In the European versions, this field value is UTC time (GMT = 0).	20160818100227
29	CallDuration	Integer	Indicates the call duration. Unit: second. **NOTE** If the system supports charging by 100 milliseconds, the value of this field is in 100 milliseconds.	260
30	SuccessACDuration	Integer	Indicates the duration of which the fee has been deducted. Unit: second.	0
31	FailACDuration	Integer	Indicates the AC duration during which an error occurs. Unit: second.	260
32	VPMNCallFlag	Integer	Indicates the flag of calls in a community group. Not null.	0
33	CBEResultCode	Integer	Indicates that registers the result code return from CBE.	2001

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SN	Field Name	Field Type	Description	Value
			The Diameter protocol provides the following types of error codes. The error type is judged based on the first digit of an error code. • 1xxx: Informational • 2xxx: Success • 3xxx: Protocol errors • 4xxx: Transient failure • 5xxx: Permanent failure An error type that cannot be identified, that is, the first digit of an error type is not in the preceding definition, is regarded as a permanent failure. OM gets the resultcode from CBPAdapter. Not Null.	
34	DDS-Discount	Integer	Indicates the discount value of the MTN zone service. If there is no discount, enter **0**.	0
35	DiameterSessionID	Char[128]	Format: <DiameterIdentity>;<high 32 bits>;<low 32 bits>[;<optional value>] • <DiameterIdentity>: The value of this field is the same as the value of **Origin-Host**. • <high>: Indicates the current system time. • <low>: The value increases cyclically. The initial value is **0**. When the system is restarted, the value is set to **0**. • <optional value=">: Reserved. Separate each two fields with a semicolon (;). Example: SCP001.huawei.com;1876543210;523	-
36	NPPrefix	Char[10]	Indicates the NP of called number. It is also called RN	-

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SN	Field Name	Field Type	Description	Value
			prefix.	
37	CalledHomeNetWork	Char[10]	Indicates the home area network code of the called party after NP.	-
38	CallingPartyLRN	Char[20]	Indicates the location routing number (LRN) of the calling party. This field is recorded in the MT process.	-
39	CalledPartyLRN	Char[20]	Indicates the location routing number (LRN) of the called party. This field is recorded in the MO process.	-
40	OpposeTenantID	Integer	Indicates the home tenant ID of the peer number.	-1
41	Service-Free-Indicator	Integer4	Free service flag. • 0: Normal • 1: Free • 2: DirectConnect	0
42	NumFormatOfCalling	Integer4	Calling number type. • 0: Unknown • 1: National • 2: International	2
43	NumFormatOfCalled	Integer4	Called number type. • 0: Unknown • 1: National • 2: International	2
44	NumFormatOfRoute	Integer4	Route number type. • 0: Unknown • 1: National • 2: International	0
45	NumFormatOfOVLR	Integer4	Calling number type of VLR. • 0: Unknown • 1: National • 2: International	2
46	NumFormatOfTVLR	Integer4	Called number type of VLR. • 0: Unknown • 1: National • 2: International	0

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SN	Field Name	Field Type	Description	Value
47	NumFormatOfOCalled	Integer4	Original called number type of VLR. • 0: Unknown • 1: National • 2: International	0
48	CalledPartyBCDNu	Char	Original number from IDP. **NOTE** Can be null while IDP contains this parameter in case of charged party is roaming.	00861360000002
49	OriginalRedirectPartyId	Char	Original number from IDP for MF, otherwise, put NULL	-
50	Service-Code-Type	Integer4	Service code type. • 0: BearerService • 1: Teleservice	1
51	Service-Code	Integer4	Service code.	0
52	OFFLINEFILENAME	Char	Reserved.	-
53	OFFLINEFILELineNo	Integer4	Reserved.	0
54	TenantID	Integer	Home BE ID of the charged party.	101
55	Brand	Integer	Brand of the charged party.	1
56	CallType	Integer	Call type. The options are as follows: • 1: international toll call • 2: toll call between charging areas • 3: toll call within a charging area • 4: local call • 5: intra-group call (reserved) • 6: emergency call (reserved) • 7: call made to the home country during international roaming • 8: call made to the roam-in country during international roaming	4

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SN	Field Name	Field Type	Description	Value
			• 9: call made to other countries during international roaming	
57	OnNetFlag	Char	• 0: inter-network • 1: intra-network	1
58	NonChgMainofferId	Char	Primary offering ID of the non-charged party. **NOTE** If the primary offering ID fails to be obtained, this field is left empty.	-
59	Subscription-Id-Data	char	Charged number. Set this field to the value of **subscriber-id-data** in the group where **subscriber-id-type** is set to **0**.	-
60	Reserved.	VARCHAR2[255]	This field is left empty.	-
61	Reserved.	VARCHAR2[255]	This field is left empty.	-
62	Reserved.	VARCHAR2[1024]	This field is left empty.	-
63	IMEI	VARCHAR2[15]	IMEI of a phone. The value is reported by an external system. If no value is reported, this parameter can be left empty. This parameter indicates the IMEI of the calling party's device in the MO process, the IMEI of the call forwarding party's device in the MF process, and IMEI of the called party's device in the MT process. **NOTE** This parameter is reported only in the CAMEL4 specification. In the CAP4 definition, CDRs are reported and recorded only in the MO process.	-

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3.2.2 w_smo CDR

A w_smo CDR is generated in the following case: In the OCS service, when a subscriber succeeds in sending SMS Messages, but the CBP fails to deduct fees due to system error, the Routing generates a w_smo CDR. The CBE rates and deducts fees based on the CDR after the CBE recovers.

Generation Scenario

In the Online Mediation service, when a subscriber sends a short message successfully, but the CBP fails to deduct fees due to system errors, the Routing generates a w_smo CDR. The CBP rates and deducts fees based on the CDR after the CBP recovers. The fields contained in the w_smo CDR are the same as the fields contained in the DCC interface between the Routing and the CBP. If some field values cannot be obtained, the fields are set to blank.

CDR File Name Format

{w_smo}.{YYYYMMDD}.{NEID}.{Index number}.unl

CDR Instance

Example of a w_smo CDR file name: w_smo.20131225.10002.000002.unl

3|1|27829129|||27829108137||27829804793|27712829118|27829804793|1|0|0||||0|0|20160528070126||||0||||||||||||27829804793||||0|0|2|1|0|0|0712829118||0|101|4|4|1||||

CDR File Format

Table 3-3 Format of w_smo CDR

SN	Field Name	Field Type	Description	Value
1	SmsType	String	Indicates the type of a SMS Message. The options are as follows: • 1: SMPP+, MAP3 SMS Message • 3: CAP3, CAP2, CAP1 SMS Message • 101: Diameter direct debit Can be null.	3
2	MessageType	Char[1]	Indicates the message type. The options are as follows: • 1: A fee deduction request message • 2: A confirmation message Can be null.	1
3	SMSCAddress	Char[20]	Indicates the SMSC address. Can be null.	27829129

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SN	Field Name	Field Type	Description	Value
4	SMID	Char[64]	Indicates the short message ID. **NOTE** Currently, the length of an SMS message cannot exceed 24 characters. In the UK VDF DCC-based SMS process, this field records **charge-event-id** and the length can exceed 24 characters. Can be null.	-
5	SMLength	Char[]	Indicates the length of the short message, which is used for charging traffic. Can be null.	-
6	MoMSCAddr	Char[20]	Indicates the MSC address of the roaming location of the sender. Can be null. **NOTE** The field contains the country code but does not contain the international prefix.	27829108137
7	MtMSCAddr	Char[20]	Indicates the MSC address of the roaming location of the receiver. Can be null. **NOTE** The field contains the country code but does not contain the international prefix.	-
8	SourceAddr	Char[64]	Indicates the sender number. The number is normalized in the OCG and it contains the country code. Not null.	27829804793
9	DestAddr	Char[64]	Indicates the receiver number. Not null. The **NG OCG > Basic > BE Control > BE System Control > System Flag > Called Number Format Sent to Rating in CAP3 SMS Flow** field in OCS GUI determines the number format normalized by the OCG. The values of this field are as follows: 0: Country code + MSISDN; 1:	27712829118

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SN	Field Name	Field Type	Description	Value
			International prefix 00 + Country code + MSISDN	
10	FeeAddr	Char[64]	Indicates the charged number. The number is a normalized number containing the country code. Can be null.	27829804793
11	FeeFlag	Integer	Indicates the charge flag. The options are as follows: • 0: To charge by using the original method. The value **0** indicates an exception. • 1: To charge the calling number. • 2: To charge the called number. • 3: To charge the charge number.	1
12	FeeType	Integer	Indicates the fee deduction type. The options are as follows: • 0: To charge in the default mode. **NOTE** For the common point-to-point short messages, the fee is configured on the OCS. For other short messages, fees must be charged based on the charging policy sent by the SMSC. • 1: To charge by the number of short messages by the SP. • 2: To charge by months (deducting fees) by the SP. • 3: To charge by months (checking). • 4: To charge by upper limit based on the number of short messages. • 5: To charge the fee of monthly SMS package with the limited number of short messages (deducting fees). • 6: To charge the fee of monthly SMS package with the limited number of short	0

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SN	Field Name	Field Type	Description	Value
			messages (checking).	
13	FeeItdMsgNum	Integer	Reserved.	0
14	FeeSingle	Char[]	Indicates the charge rate of a single short message. Can be null.	-
15	FeeFixed	Char[]	Indicates the charge rate of each short message in a monthly SMS package. If the number of short messages exceeds the limited number, the charge rate of the excess short messages is specified by the **FeeSingle** field. Can be null	-
16	MessagePID	Char[]	Indicates the message PID such as a picture and voice. Can be null.	-
17	StatusReportRequest	Integer	Whether a status report is needed after a request message is sent. The options are as follows: • 0: No • 1: Yes	0
18	OriginalNetType	Integer	Indicates the type of the source network. The options are as follows: • 0: GSM • 1: CDMA • 2: TDMA • 3: SMPP	0
19	SMSReceiveTime	Char[14]	Indicates the IMSI of the called party. Indicates the time when a short message is received. The value is in the format *YYYYMMDDHHMMSS*. **NOTE** • In the UK and SFR versions: For the CAP-based access, the local system time is converted to the UTC time, and this field value is the UTC time (GMT =	20160528070126

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SN	Field Name	Field Type	Description	Value
			0). For the DCC-based access, the **Event-Timestamp** in UTC format in DCC messages is converted to time in the format YYYYMMDDHHMMSS, and this field value is in the format YYYYMMDDHHMMSS. • In KPNI and Telcom versions, this field value is local system time. Not null.	
20	CallingService	Char[16]	Indicates the calling service, an array of 16 bytes with each byte representing a type of service. If the value of a byte is **0**, it indicates no service. If the value of a byte is **1**, it indicates that the current message contains the service. The format is as follows: • CallingServcie[0]: Short message signature • CallingServcie[1]: Enhanced return notification of MO short message • CallingServcie[2]: Power-on notification Can be null.	-
21	CalledService	Char[16]	Indicates the called service, an array of 16 bytes with each byte representing a type of services. If the value of a byte is **0**, it indicates no service. If the value of a byte is **1**, it indicates that the current message contains the service. The options are as follows: • CallingServcie[0]: Short message transfer • CallingServcie[1]: Automatic reply Can be null.	-
22	OriginalMsgID	Char[64]	Indicates the ID of the original SMS Message that is associated with the current message.	-

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SN	Field Name	Field Type	Description	Value
			Can be null.	
23	SMDSendResult	Char[]	Whether sending an intra-network short message succeeds or fails and how to dispose. The options are as follows: • 0: Confirm the successful sending of a message • 1: Refund the fee if sending a message fails For inter-network short messages and Monternet short messages, the value is blank. The field **SMDSendResult** is valid to confirmation messages. For fee deduction request messages, the value is blank. Not null.	0
24	MsgID	Char[20]	Indicates the message ID that the gateway generates. The field **MsgID** is valid to inter-network short messages and Monternet short messages. For intra-network short messages, the value is blank. Can be null.	-
25	GWID	Char[10]	Indicates the ID of the gateway that sends the message. The field **GWID** is valid to inter-network short messages and Monternet short messages. For intra-network short messages, the value is blank. Can be null.	-
26	MsgSeq	Char[10]	Indicates the short message sequence number generated by the SMSC. The field **MsgSeq** is valid to inter-network short messages and Monternet short messages. For intra-network short messages, the value is blank. Can be null.	-
27	SPID	Char[10]	Indicates the ID of service	-

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SN	Field Name	Field Type	Description	Value
			provider. The field **SPID** is valid to inter-network short messages and Monternet short messages. For intra-network short messages, the value is blank. Can be null.	
28	ServiceCode	Char[10]	Indicates the code of the service type. The field **ServiceCode** is valid to inter-network short messages and Monternet short messages. For intra-network short messages, the value is blank. Can be null.	-
29	SourceGWID	Char[10]	Indicates the ID of the gateway that forwards short messages. The field **SourceGWID** is valid to inter-network short messages and Monternet short messages. For intra-network short messages, the value is blank. Can be null.	-
30	PriorityFlag	Char[]	Indicates the priority level of a short message. A small value indicates a high priority. The field **PriorityFlag** is valid to inter-network short messages and Monternet short messages. For intra-network short messages, the value is blank. Can be null.	-
31	ChargingRate	Char[]	Indicates the charge rate. The field **ChargingRate** is valid to inter-network short messages and Monternet short messages. For intra-network short messages, the value is blank. Can be null.	-
32	ChargingType	Integer	Indicates the charging type, used in Monternet short messages and inter-network	-

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SN	Field Name	Field Type	Description	Value
			short messages. The options are as follows: • 0: No charge. Only the channel fee of the SP is deducted. • 1: free of charge. • 2: To charge by the number of SMS Messages. • 3: To charge by months. • 4: To charge by upper limit. For inter-network short messages, the value is **2**. For intra-network short messages, the value is blank. This field is reserved in the OCS and is left blank.	
33	CDRType	Char[]	Indicates the CDR type, used in Monternet short messages and inter-network short messages. For inter-network short messages, the options are as follows: • 11: The MO CDR that an inter-network short message interconnects with a short message of China Unicom. • 12: The MT CDR that an inter-network short message interconnects with a short message of China Unicom For inter-network short messages, the value is **11**. For Monternet short messages, the options are as follows: • 1: An MO CDR • 2: An MT CDR • 3: Monthly SMS control For intra-network short messages, the value is blank. Can be null.	-
34	Discount	Char[]	Indicates the discount and unit is percent. The value **100** indicates no discount. The field **Discount** is valid to	-

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SN	Field Name	Field Type	Description	Value
			inter-network short messages and Monternet SMS Messages. For intra-network short messages, the value is blank. Can be null.	
35	GiftResult	Integer	Indicates the presentation result. The field **GiftResult** indicates the result of sending an inter-network short message or Monternet short message. For Monternet SMS Messages, the options are as follows: • 0: Failure • 1: Success For intra-network short messages, the value is blank.	-
36	Subscription-Id-Data	Char[64]	Indicates the end subscriber number. The number is a normalized number containing the country code. Not null.	27829804793
37	DiameterSessionID	Char[128]	Format: <DiameterIdentity>;<high>;<low>[;<optional value="">]</optional></low></high></DiameterIdentity> • <DiameterIdentity>: The value of this field is the same as the value of Origin-Host. • <high>: Indicates the current system time. • <low>: The value increases cyclically. The initial value is **0**. When the system is restarted, the value is set to **0**. • <optional value="">: Reserved. Separate each two fields with a semicolon (;). Example: SCP001.huawei.com;1876543210;523	-
38	NPPrefix	Char[10]	Indicates the NP of called	-

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SN	Field Name	Field Type	Description	Value
			number. It is also called RN prefix.	
39	CalledHomeNetWork	Char[10]	Indicates the home area network code of the called party after NP.	-
40	OpposeTenantID	Integer	Indicates the home tenant ID of the peer number.	0
41	DCS	Integer	Indicates the mode for encoding the SMS messages to be sent. The options are as follows: • -1: The encoding modes do not need to be differentiated. • 0: 7 bit (English) • 8: UCS2 (Farsi/Other) • 4: Binary code	0
42	NumFormatOfCalling	Integer4	Calling number type. • 0: Unknown • 1: National • 2: International This field corresponds to the format of **SourceAddr**. The format is normalized by the OCG. Therefore, this field has the fixed value of **2**.	2
43	NumFormatOfCalled	Integer4	Called number type. • 0: Unknown • 1: National • 2: International This field corresponds to the format of **CalledPartyBCDNu**, which indicates the original target number reported by the MSC.	1
44	NumFormatOfOMSC	Integer4	Calling number type of roaming MSC. • 0: Unknown • 1: National • 2: International	0
45	NumFormatOfTMSC	Integer4	Called number type of roaming MSC. • 0: Unknown	0

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SN	Field Name	Field Type	Description	Value
			• 1: National • 2: International	
46	CalledPartyBCDNu	Char(32)	Original number. The value is the original target number reported by the MSC.	0712829118
47	OFFLINEFILENAME	Char(32)	NULL.	-
48	OFFLINEFILELineNo	Integer4	NULL.	0
49	TenantID	Integer	Home BE ID of the charged party.	101
50	Brand	Integer	Brand of the charged party.	4
51	CallType	Integer	SMS type. The options are as follows: • 1: national SMS message • 2: international toll SMS message • 3: international roaming SMS message	4
52	OnNetFlag	Char(1)	Network flag. • 0: inter-network • 1: intra-network	1
53	Reserved	VARCHAR2[12]	Reserved.	-
54	Reserved	VARCHAR2[1024]	Reserved.	-
55	BYPASS_RESULT_CODE	VARCHAR2[10]	Error code for bypass.	-

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4 Charging Output CDRs

About This Chapter

This topic describes the file storage directories, file name formats, CDR fields, and field sequences of different types of charging output CDRs.

4.1 Basic Information About Charging Output CDRs

This topic describes basic information such as the file name formats and file storage directories of charging output CDRs.

4.2 Charging Output CDR Files

This topic describes charging output CDR files consisting of fixed-length arrays. In these CDR files, field lengths are fixed and the number of complex fields remains unchanged in different service scenarios. This type of CDR file is provided only for the report system.

4.3 Prepaid Transaction CDR Files

This topic describes the CDR file template provided in the baseline version for management flow services. Each site can customize CDR files based on the template.

4.1 Basic Information About Charging Output CDRs

This topic describes basic information such as the file name formats and file storage directories of charging output CDRs.

4.1.1 Charging Output CDR Storage Directories

This topic describes the directories for storing CDR files to be imported on the application node CDR2DB in the EDRDB and CDR files generated after CDR sorting. CDR sorting refers to a process of converting original CDR files generated by the CBP to the format required by an external system based on the service requirements.

Directory for Storing CDR Files to Be Imported

The Mediation collects CDR files generated by the CBP and sends them to the CDR2DB in the EDRDB. You can configure the directory for storing CDR files to be imported by the CDR2DB on the **Invoicing** > **Bill Run Rule** > **Input File Management** page. For example, set the directory to ***$CBP_CDRPATH*/dispatchin/in**.

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Directories for Storing CDR Files Generated After Sorting

- You can configure the directories for storing CDR files generated after successful sorting on the CDR2DB on the **Invoicing** > **Bill Run Rule** > **Output File Management** page. Example:
  - Directory for storing CDR files generated after successful sorting for prepaid subscribers: ***$CBP_CDRPATH***/output/pps/normal
  - Directory for storing CDR files generated after successful sorting for postpaid subscribers: ***$CBP_CDRPATH***/output/pos/normal
- You can configure the directories for storing error CDR files generated after sorting on the CDR2DB on the **Invoicing** > **Bill Run Rule** > **Output File Management** page. Example:
  - Directory for storing error CDR files generated after sorting for prepaid subscribers: ***$CBP_CDRPATH***/output/pps/fail
  - Directory for storing error CDR files generated after sorting for postpaid subscribers: ***$CBP_CDRPATH***/output/pos/fail

NOTE

If CDR files that have been read are sent to the directory for storing CDR files to be sorted, they are not processed again and are moved to the ignored CDR file directory. You can configure the directory for storing CDR files that can be ignored on the **Invoicing** > **Bill Run Rule** > **Input File Management** page, for example, ***$CBP_CDRPATH***/dispatchin/ignore.

Directory for Backing Up Input CDR Files for Sorting

You can configure the directory for backing up input CDR files for sorting on the CDR2DB on the **Invoicing** > **Bill Run Rule** > **Input File Management** page. For example, set the directory to **$CBP_CDRPATH/dispatchin/bak**.

4.1.2 Process of Generating Charging Output CDRs

The Mediation periodically obtains CDR files from the CBP and uses SFTP to send them to the application node CDR2DB in the EDRDB for importing and sorting.

The detailed process is described as follows:

1. The Mediation periodically collects CDR files from the CBP and uses SFTP to send them to the directory for storing CDR files to be imported on the application node CDR2DB in the EDRDB. The directory is ***$CBP_CDRPATH*/dispatchin/in**.
2. The CDR2DB sorts the CDR files as follows:
   a. The TSM invokes the scheduled task for sorting CDRs. The controller Cdr2DBAdapter periodically scans **$CBP_CDRPATH/dispatchin/in**. When any CDR files are found, the CDR2DB continues the process.
   b. The sorting service invokes the BOExchange to execute the TXT2BO conversion rule and convert the CDR files to BOs.
   c. The BOExchange sorts and converts the source BOs to target BOs.
   d. The BOExchange executes the BO2TXT rule to convert the CDR BOs to CDR files and saves the CDRs generated after successful sorting to **$CBP_CDRPATH/dispatchout/out**.

4.1.3 Content Format of a Charging Output CDR File

This topic describes the content format and recording rules of a charging output CDR file.

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- A charging output CDR file is stored as a text file.
- CDR fields are separated by verticals (|) and the last field in each line ends with a vertical (|). If a field is empty, no value exists between two consecutive vertical bars, for example, ||.
- To ensure the CDR parsing success, the system escapes some special characters in the CDR file. The escaped special characters are described as follows:
  - **\0x1d**: carriage return (\r)
  - **\0x1e**: line feed (\n)
  - \|: vertical bar (|)
  - \\: backslash (\)
  - **\{**: left brace ({)
  - **\}**: right brace (})

4.1.4 File Name Format of Charging Output CDRs

This topic describes the file name format of sorted charging output CDRs.

Description

Charging output CDR files are named in the format **{File Name Prefix}+{File Name Pattern}+{File Name Suffix}**. You can configure the file names using **File Name Prefix**, **File Name Pattern**, and **File Name Postfix** on the **Invoicing** > **Bill Run Rule** > **Output File Management** page.

If **File Name Pattern** is set to ***CDR type abbreviation*_$<DATE8>_$<NODEID>_$<BEID>_$<SNO6>**, the CDR file is named in the following format: {File Name Prefix}+{CDR type abbreviation}+{YYYYMMDD}+{_}+{NODEID}+{_}+{BEID}+{_}+{Six-digit sequence number}+{File Name Suffix}.

Table 4-1 describes the fields in the file name format for charging output CDRs.

Table 4-1 Fields in the file name format for charging output CDRs

Field	Description
File Name Prefix	Prefix of the CDR file name, for example, **rec_**.
SNO6	Six-digit sequence number assigned to a CDR file.
SNO3	Three-digit sequence number assigned to a CDR file.
DATE6	Month in which a CDR file is generated, in the format *YYYYMM*.
DATE8	Date on which a CDR file is generated, in the format *YYYYMMDD*.
TIME6	CDR file generation time, in the format *HHMMSS*.
TIMEE	CDR file generation time, in the format *YYYYMMDDHHMMSS*.
_	Underscore.
NODEID	Data node to which the charged object belongs.

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Field	Description
CPID	Customer partition ID.
SRCNAME	Name of the source CDR file corresponding to the charging output CDR file.
BEID	BE ID.
File Name Suffix	Suffix of the CDR file name, for example, **.unl** or **.add**.

4.1.5 Charging Output CDR Types

This topic describes the types of sorted charging output CDRs and the CDR generation scenarios.

Table 4-2 lists the charging output CDR types.

Table 4-2 Charging output CDR types

CDR Type	CDR Generation Scenario	Default CDR File Name
Voice CDR	The voice CDR records rating and charging information generated by the charging module in a voice call process, in addition to service scenario information reported by the call control component.	cbs_cdr_voice_YYYYMMDD_$<NodeID>_$<BEID>_$<SNO6>.add
SMS CDR	The SMS CDR records rating and charging information generated by the charging module in an SMS service process, in addition to service scenario information reported by an external NE.	cbs_cdr_sms_YYYYMMDD_$<NodeID>_$<BEID>_$<SNO6>.add
MMS CDR	The MMS CDR records rating and charging information generated by the charging module in an MMS service process, in addition to service scenario information reported by an external NE.	cbs_cdr_mms_YYYYMMDD_$<NodeID>_$<BEID>_$<SNO6>.add
GPRS CDR	The GPRS CDR records rating and charging information generated by the charging module in a GPRS service process, in	cbs_cdr_data_YYYYMMDD_$<NodeID>_$<BEID>_$<SNO6>.add

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CDR Type	CDR Generation Scenario	Default CDR File Name
	addition to service scenario information reported by an external NE.	
Recurring charging CDR	The recurring charging CDR records recurring charges, including the rental, package fee, and subsequent installment rebates.	cbs_cdr_mon_YYYYMMDD_$<NodeID>_$<BEID>_$<SNO6>.add
Management CDR	The management CDR records one-off fees deducted in the management flow.	cbs_cdr_cm_YYYYMMDD_$<NodeID>_$<BEID>_$<SNO6>.add
Content CDR	The content CDR records content-based charging information (rated by the OCS or an external system) and one-off fees reported by external systems.	cbs_cdr_com_YYYYMMDD_$<NodeID>_$<BEID>_$<SNO6>.add
CLR CDR	The CLR CDR is generated when resources or amounts are cleared in scenarios such as deregistration, status change, or expiration.	cbs_cdr_cls_YYYYMMDD_$<NodeID>_$<BEID>_$<SNO6>.add
Activation CDR	The activation CDR is generated when a prepaid subscriber is activated the first time.	cbs_cdr_first_YYYYMMDD_$<NodeID>_$<BEID>_$<SNO6>.add
Penalty CDR	The penalty CDR is generated when the CBS directly deducts a penalty from a subscriber who unsubscribes from an offering. (Note: The penalty deducted through the WebService one-off fee deduction interface is recorded in a management CDR.)	cbs_cdr_penalty_YYYYMMDD_$<NodeID>_$<BEID>_$<SNO6>.add
Recharge CDR	The recharge CDR records the cash or voucher recharge information such as the information about the voucher, and change of the validity period and account after the recharge. The information about the rewards that are obtained	cbs_cdr_vou_YYYYMMDD_$<NodeID>_$<BEID>_$<SNO6>.add

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CDR Type	CDR Generation Scenario	Default CDR File Name
	immediately after the recharge is recorded in the recharge CDR. Other cycles of the installment rebate are recorded in the periodic fee CDRs.	
Transfer CDR	The transfer CDR is generated upon transfer transactions.	cbs_cdr_transfer_YYYYMMDD_$<NodeID>_$<BEID>_$<SNO6>.add
Adjustment CDR	The adjustment CDR is generated upon adjustment transactions.	cbs_cdr_adj_YYYYMMDD_$<NodeID>_$<BEID>_$<SNO6>.add
Loan CDR	The loan CDR records the information about the loan information of a subscriber.	cbs_cdr_loan_$<AppNodeID>_$<DataNodeID>_$<BEID>_YYYYMMDDHHMMSS_$<SNO5>.add

4.1.6 FU_MEASURE_ID Field Description

Table 4-3 describes measurement units in CDRs, and the values in the **FU_MEASURE_ID** column are used for transfer and storage.

This parameter can be set under **Unified Product Catalog** > **Reference Data** > **Measurement** based on the site requirements.

Table 4-3 FU_MEASURE_ID

FU_MEASURE_ID	Measurement Unit Name
1003	Second
1004	Minute
1006	Times
1101	Item
1106	Bytes
1107	KB
1108	MB
1109	GB
1121	PAGE
1122	ENTRY

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4.2 Charging Output CDR Files

This topic describes charging output CDR files consisting of fixed-length arrays. In these CDR files, field lengths are fixed and the number of complex fields remains unchanged in different service scenarios. This type of CDR file is provided only for the report system.

4.2.1 Common Fields in a Charging Output CDR File

This topic describes common fields in sorted charging output CDRs of various services in the baseline version. The number and meanings of these CDR fields are almost fixed. Fields that sites can expand are marked in this topic.

The last field **CHARGE_SERVICE_INFO** in charging output CDR files is provided for sites to expand. Sites can expand fields of a specific number for different services. The expanded fields can be added only to the **CHARGE_SERVICE_INFO** field. Generally, each CDR file has only one group of **CHARGE_SERVICE_INFO**. In baseline CDR files, basic extended fields are provided for **CHARGE_SERVICE_INFO** if services need to be differentiated. For details, see the 4.2.2 Extended Charging Service Information.

Table 4-4 describes common fields in a charging output CDR file.

CDR File Format

Table 4-4 Common fields in a charging output CDR file

SN	Field Name	Field Type	Description	Field Category
1	CDR_ID	NUMBER[20]	Unique ID of a CDR. This field cannot be left empty.	The first 32 fields record basic information in CDR files. The length of these fields is fixed. The 24th, 25th, and 32nd fields can
2	CDR_SUB_ID	NUMBER[20]	Sub ID of a CDR. This ID identifies the order of each CDR generated in the same session. The sub IDs are consecutive and start from 0. This field cannot be left empty.	
3	CDR_TYPE	VARCHAR2[1]	CDR type. The options are as follows: • **N**: normal CDR • **E**: error CDR • **R**: recycling CDR This field cannot be left empty.	
4	SPLIT_CDR_REASON	VARCHAR2[1]	Reason to split a CDR. The options are as follows: • **N**: A CDR is not split. This is the default value. • **L**: The call duration reaches the CDR splitting threshold.	

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SN	Field Name	Field Type	Description	Field Category
			• **B**: The current call straddles two bill cycles. • **D**: The current call straddles two days. • **A**: The number of AC messages reaches the threshold. • **V**: The traffic usage reaches the threshold, in bytes. • **R**: The current call straddles two roaming types. This field cannot be left empty.	be customized based on the site requirements. Other fields are inextensible.
5	CDR_BATCH_ID	NUMBER[20]	Data source ID or CDR batch ID. For offline charging, set the field to the data source ID. For online charging, set the field to the CDR batch ID, in the *YYYYMMDDHHmm* format. The default value is **0**. This field cannot be left empty.	
6	SRC_REC_LINE_NO	NUMBER[10]	Original record line number. Set this field to **0** for online charging or the CDR line number for offline charging. This field cannot be left empty.	
7	SRC_CDR_ID	NUMBER[20]	Original ID of a CDR to be rerated. The default value is **0**. This field cannot be left empty.	
8	SRC_CDR_NO	NUMBER[20]	CDR number generated in a session. The field value is the same for CDRs with the same session. For example, a subscriber surfs on the Internet for 48 hours. Three CDRs are generated if the original CDR is split by day. The value of **SRC_CDR_NO** is the same as the value of **CDR_ID** in the first CDR. **This field cannot be left empty.**	
9	STATUS	VARCHAR2[1]	CDR status. The options are as follows: • **A**: valid • **D**: invalid, reserved	

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SN	Field Name	Field Type	Description	Field Category
			This field has a fixed value of **A**. This field cannot be left empty.	
10	RE_RATING_TIMES	NUMBER[3]	Number of times that a CDR is rerated. If a CDR is not rerated, set the field to **0**. This field cannot be left empty.	
11	CREATE_DATE	DATE[14]	UTC time in the system when a CDR is created. This field cannot be left empty.	
12	START_DATE	DATE[14]	UTC time when a service starts. This field cannot be left empty. If CDRs were split, set this field to the last splitting time.	
13	END_DATE	DATE[14]	UTC time when a service ends. This field cannot be left empty. If CDRs are recorded in the CDR splitting scenario, set this field to the CDR splitting time.	
14	CUST_LOCAL_START_DATE	DATE[14]	Local time when a service starts. This field cannot be left empty. If CDRs were split, set this field to the last splitting time.	
15	CUST_LOCAL_END_DATE	DATE[14]	Local time when a service ends. This field cannot be left empty. If CDRs are recorded in the CDR splitting scenario, set this field to the CDR splitting time.	
16	STD_EVT_TYPE_ID	NUMBER[10]	Standard charging event type ID. In the refund scenario, this field also records the event source type used for charging. For example, value **11000** indicates the voice online charging event. The options can be expanded. For details, see configurations on the OCS GUI. The default value is **0**. This field cannot be left empty.	
17	EVT_SOURCE_CATEGOR	VARCHAR2[1]	Event source type. In the refund scenario, this field also records the	

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SN	Field Name	Field Type	Description	Field Category
	Y		event source type used for charging. The options are as follows: • **C**: offline charging request • **D**: Diameter charging request • **M**: management charging request • **S**: system-triggered charging request, for example, recurring charging This field cannot be left empty.	
18	OBJ_TYPE	VARCHAR2[1]	Type of the charged party. The options are as follows: • **A**: account • **C**: customer • **S**: subscriber • **G**: subscriber group This field cannot be left empty.	
19	OBJ_ID	NUMBER[20]	ID of the charged party. Set this field based on the **OBJ_TYPE** value. The default value is **0**. This field cannot be left empty.	
20	OWNER_CUST_ID	NUMBER[20]	Registrant ID of the charged party. The default value is **0**. This field cannot be left empty.	
21	DEFAULT_ACCT_ID	NUMBER[20]	Default account ID of the charged party. The default value is **0**. This field cannot be left empty.	
22	PRI_IDENTITY	VARCHAR2[64]	Subscriber primary identifier. In rental events where the subscriber number does not exist, for example, account, customer, and subscriber group rental events, this field can be left empty. • If a primary identifier is an MSISDN or a PSTN, this field is set in the format **Country code + MSISDN** or **Country code + Area code + PSTN**. • If a primary identifier is of other types, the value is the number that	

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SN	Field Name	Field Type	Description	Field Category
			is transferred.	
23	BILL_CYCLE_ID	VARCHAR2[20]	Bill cycle ID of the default account corresponding to the charged party when a charging event occurs. This field indicates the ID of the bill cycle for which fees are deducted. If a fee deducted from the default account is debited to the last bill cycle, this field must be set to the last bill cycle ID.	
24	SERVICE_CATEGORY	VARCHAR2[10]	Service type. The field can be customized. The example options are as follows: • **1**: voice • **2**: SMS • **3**: MMS • **4**: one-off fee deduction • **5**: GPRS charging • **6**: content-based charging • **7**: recurring fee • **8**: service processed on the management foreground This field can be left empty.	
25	USAGE_SERVICE_TYPE	VARCHAR2[10]	Service subtype. The field can be customized. The subtypes vary according to site, and the value is obtained from the charging event attribute. The example options are as follows: • **10**: local intra-network call • **11**: local inter-network call • **12**: national toll call • **13**: international toll call • **14**: national roaming call • **15**: international roaming call • **21**: intra-network SMS • **22**: inter-network SMS • **23**: special number SMS • **24**: international toll SMS • **25**: intra-network MMS	

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SN	Field Name	Field Type	Description	Field Category
			• **26**: inter-network MMS • **27**: international toll MMS • **28**: international roaming SMS • **29**: international roaming MMS • **31**: local data service • **33**: roaming data service • **4**: rental • **5**: content-based charging • **42**: penalty charged directly for offering unsubscription This field can be left empty.	
26	SESSION_ID	VARCHAR2[128]	Session ID. In events such as rental events, this field can be left empty. • For sessions in online charging, set the field to the session ID reported in a DCC message. • When the external system assigns a session ID during offline charging, this session ID is used. Otherwise, set the field to a value consisting of the batch ID, original CDR file ID, and source event ID. • For sessions generated in other service management systems (such as the Billing Configurator and AR), set the field to the service sequence number.	
27	RESULT_CODE	NUMBER[10]	Internal result code. • **0**: success • Others: failure. For details, see **Background Error Codes** in the *Error Code Reference* document. This field cannot be left empty.	
28	RESULT_REASON	VARCHAR2[256]	Reason why a service ends. This field is reserved.	
29	BE_ID	NUMBER[10]	ID of the lowest-level home BE of the charged object. The default value is **0**. This field cannot be left empty.	

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SN	Field Name	Field Type	Description	Field Category
30	HOT_SEQ	NUMBER[10]	Sequence number of a CDR generated in bill on demand. This field is set to the sequence number of the task for bill on demand in recurring charging CDRs and is set to **0** in other scenarios. This field cannot be left empty.	
31	CP_ID	NUMBER[10]	Customer partition ID. The default value is **0**. This field cannot be left empty.	
32	RECIPIENT_NUMBER	VARCHAR2[64]	Recipient number, which can be customized by a carrier. For account, customer, and subscriber group rental events and GPRS events, this field can be left empty. The number formats are as follows: • If the recipient number is an MSISDN or a PSTN, this field is set in the format **Country code + MSISDN** or **Country code + Area code + PSTN**. • When the recipient number is of other types, the value is the number that is transferred.	
33	USAGE_MEASURE_ID	NUMBER[10]	Service usage measurement unit ID. For example, value **1003** indicates second. The options can be expanded. For details, see configurations on the OCS GUI.	The 33rd to 36th fields record the service usage of the first type in the charging process. If no servic
34	ACTUAL_USAGE	NUMBER[20]	Actual service usage. Set this field to the total service usage from last CDR splitting to this message. That is, the service usage in the CDR split this time covers all service usage reported in this message.	
35	RATE_USAGE	NUMBER[20]	Rated service usage. Set this field to the total service usage from last CDR splitting to this message. That is, the service usage in the CDR split this time covers all service usage reported in this	

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SN	Field Name	Field Type	Description	Field Category
			message.	e usage is triggered in the rental collection, activation, penalty, resource clearance, or management processes (except the one-off fee deduction process, one-off package fee collection, and DCC-based balance query), these fields are set to 0 by default.
36	SERVICE_UNIT_TYPE	NUMBER[10]	Service usage type. • **1**: duration • **2**: traffic • **3**: item • **4**: currency • **5**: times • **6**: page • **7**: special service type If there is no service usage type, the field is set to **0** by default.	

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SN	Field Name	Field Type	Description	Field Category
37	USAGE_MEASURE_ID2	NUMBER[10]	Service usage measurement unit ID. The default value is **0**.	The 37th to 40th fields record the service usage of the second type in the charging process. These fields are reserved currently and have a fixed value of **0**.
38	ACTUAL_USAGE2	NUMBER[20]	Actual service usage. The default value is **0**. Set this field to the total service usage from last CDR splitting to this message. That is, the service usage in the CDR split this time covers all service usage reported in this message.	
39	RATE_USAGE2	NUMBER[20]	Rated service usage. The default value is **0**. Set this field to the total service usage from last CDR splitting to this message. That is, the service usage in the CDR split this time covers all service usage reported in this message.	
40	SERVICE_UNIT_TYPE2	NUMBER[10]	Service usage type. The default value is **0**.	
41	DEBIT_AMOUNT	NUMBER[20]	Actual amount that is deducted, which includes the amount deducted from prepaid main funds, bonuses, postpaid credits, and prepayments of all accounts (including payment accounts) used in a transaction but excludes the undebited amount.	The 41st to 48th fields record total funds (excluding bonuses) used in the charging process.
42	Reserved	NUMBER[20]	This field is reserved.	
43	DEBIT_FROM_PREPAID	NUMBER[20]	Total amount deducted from prepaid main funds and bonuses of all prepaid accounts, including payment accounts.	
44	DEBIT_FROM_ADVANCE_PREPAID	NUMBER[20]	Total amount deducted from prepaid main funds of all prepaid accounts, including payment accounts.	
45	DEBIT_FRO	NUMBER[20]	Total amount deducted from credits,	

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SN	Field Name	Field Type	Description	Field Category
	M_POSTPAID		bonuses, deposits, and prepayments of all postpaid accounts, including payment accounts.	
46	DEBIT_FROM_ADVANCE_POSTPAID	NUMBER[20]	Total amount deducted from prepayments of all postpaid accounts, including payment accounts.	
47	DEBIT_FROM_CREDIT_POSTPAID	NUMBER[20]	Total amount deducted from credits of all postpaid accounts, including payment accounts.	
48	TOTAL_TAX	NUMBER[20]	Total tax amount.	
49	FREE_UNIT_AMOUNT_OF_TIMES	NUMBER[20]	Usage of free units that are charged by times.	The 49th to 51st fields record total free units used in the charging process, excluding the rewarded free units.
50	FREE_UNIT_AMOUNT_OF_DURATION	NUMBER[20]	Usage of free units that are charged by duration. The duration unit is defined by the system. Generally, the unit is second.	
51	FREE_UNIT_AMOUNT_OF_FLUX	NUMBER[20]	Usage of free units that are charged by traffic. The traffic unit is defined by the system. Generally, the unit is byte.	
52	ACCT_ID	NUMBER[20]	Payment account ID. This field records the account ID when the credit limit is deducted.	The 52nd to 121st fields record 10 groups of balance change in the chargi
53	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account. This field records the credit limit ID when the credit limit is deducted.	
54	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier. This field records 3000 when the credit limit is deducted.	
55	CUR_BALANCE	NUMBER[20]	Current balance. This field records the available credit	

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SN	Field Name	Field Type	Description	Field Category
			limit when the credit limit is deducted.	ng process, excluding the rewarded balance change. The 52nd to 58th fields record the first group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded and other group
56	CHG_BALANCE	NUMBER[20]	Change amount of the balance. This field records the deducted credit limit when the credit limit is deducted.	
57	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier. This field records the currency ID of the default account when the credit limit is deducted.	
58	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account. This field records 1 when the credit limit is deducted.	

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SN	Field Name	Field Type	Description	Field Category
				s of fields are left empty.
59	ACCT_ID	NUMBER[20]	Account ID. This field records the account ID when the credit limit is deducted.	The 52nd to 121st fields record 10 groups of balance change in the charging process, excluding the rewarded balance change. The 59th to 65th fields record the second group of balance change information. If
60	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account. This field records the credit limit ID when the credit limit is deducted.	
61	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier. This field records 3000 when the credit limit is deducted.	
62	CUR_BALANCE	NUMBER[20]	Current balance. This field records the available credit limit when the credit limit is deducted.	
63	CHG_BALANCE	NUMBER[20]	Change amount of the balance. This field records the deducted credit limit when the credit limit is deducted.	
64	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier. This field records the currency ID of the default account when the credit limit is deducted.	
65	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account. This field records 1 when the credit limit is deducted.	

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SN	Field Name	Field Type	Description	Field Category
				N balance changes are involved, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
66	ACCT_ID	NUMBER[20]	Account ID. This field records the account ID when the credit limit is deducted.	The 52nd to 121st fields record 10 groups of balance change in the charging process, excluding the rewar
67	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account. This field records the credit limit ID when the credit limit is deducted.	
68	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier. This field records 3000 when the credit limit is deducted.	
69	CUR_BALANCE	NUMBER[20]	Current balance. This field records the available credit limit when the credit limit is deducted.	
70	CHG_BALANCE	NUMBER[20]	Change amount of the balance. This field records the deducted credit limit when the credit limit is deducted.	

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SN	Field Name	Field Type	Description	Field Category
71	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier. This field records the currency ID of the default account when the credit limit is deducted.	ded balance change. The 66th to 72nd fields record the third group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
72	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account. This field records 1 when the credit limit is deducted.	
73	ACCT_ID	NUMBER[20]	Account ID.	The

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SN	Field Name	Field Type	Description	Field Category
			This field records the account ID when the credit limit is deducted.	52nd to 121st fields record 10 groups of balance change in the charging process, excluding the rewarded balance change. The 73rd to 79th fields record the fourth group of balance change information. If *N* balance changes are involved, the first *N*
74	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account. This field records the credit limit ID when the credit limit is deducted.	
75	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier. This field records 3000 when the credit limit is deducted.	
76	CUR_BALANCE	NUMBER[20]	Current balance. This field records the available credit limit when the credit limit is deducted.	
77	CHG_BALANCE	NUMBER[20]	Change amount of the balance. This field records the deducted credit limit when the credit limit is deducted.	
78	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier. This field records the currency ID of the default account when the credit limit is deducted.	
79	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account. This field records 1 when the credit limit is deducted.	

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SN	Field Name	Field Type	Description	Field Category
				groups of balance change fields are recorded and other groups of fields are left empty.
80	ACCT_ID	NUMBER[20]	Account ID. This field records the account ID when the credit limit is deducted.	The 52nd to 121st fields record 10 groups of balance change in the charging process, excluding the rewarded balance change. The 80th to 86th fields
81	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account. This field records the credit limit ID when the credit limit is deducted.	
82	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier. This field records 3000 when the credit limit is deducted.	
83	CUR_BALANCE	NUMBER[20]	Current balance. This field records the available credit limit when the credit limit is deducted.	
84	CHG_BALANCE	NUMBER[20]	Change amount of the balance. This field records the deducted credit limit when the credit limit is deducted.	
85	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier. This field records the currency ID of the default account when the credit limit is deducted.	
86	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows:	

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SN	Field Name	Field Type	Description	Field Category
			• **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account. This field records 1 when the credit limit is deducted.	record the fifth group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
87	ACCT_ID	NUMBER[20]	Account ID. This field records the account ID when the credit limit is deducted.	The 52nd to 121st fields record 10 groups of balan
88	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account. This field records the credit limit ID when the credit limit is deducted.	
89	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	

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SN	Field Name	Field Type	Description	Field Category
			This field records 3000 when the credit limit is deducted.	ce change in the charging process, excluding the rewarded balance change. The 87th to 93rd fields record the sixth group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are record
90	CUR_BALANCE	NUMBER[20]	Current balance. This field records the available credit limit when the credit limit is deducted.	
91	CHG_BALANCE	NUMBER[20]	Change amount of the balance. This field records the deducted credit limit when the credit limit is deducted.	
92	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier. This field records the currency ID of the default account when the credit limit is deducted.	
93	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account. This field records 1 when the credit limit is deducted.	

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SN	Field Name	Field Type	Description	Field Category
				ed and other groups of fields are left empty.
94	ACCT_ID	NUMBER[20]	Account ID. This field records the account ID when the credit limit is deducted.	The 52nd to 121st fields record 10 groups of balance change in the charging process, excluding the rewarded balance change. The 94th to 100th fields record the seventh group of balance chang
95	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account. This field records the credit limit ID when the credit limit is deducted.	
96	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier. This field records 3000 when the credit limit is deducted.	
97	CUR_BALANCE	NUMBER[20]	Current balance. This field records the available credit limit when the credit limit is deducted.	
98	CHG_BALANCE	NUMBER[20]	Change amount of the balance. This field records the deducted credit limit when the credit limit is deducted.	
99	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier. This field records the currency ID of the default account when the credit limit is deducted.	
100	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is,	

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SN	Field Name	Field Type	Description	Field Category
			add a balance account. This field records 1 when the credit limit is deducted.	e information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
101	ACCT_ID	NUMBER[20]	Account ID. This field records the account ID when the credit limit is deducted.	The 52nd to 121st fields record 10 groups of balance change in the charging proce
102	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account. This field records the credit limit ID when the credit limit is deducted.	
103	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier. This field records 3000 when the credit limit is deducted.	
104	CUR_BALANCE	NUMBER[20]	Current balance. This field records the available credit limit when the credit limit is deducted.	

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SN	Field Name	Field Type	Description	Field Category
105	CHG_BALANCE	NUMBER[20]	Change amount of the balance. This field records the deducted credit limit when the credit limit is deducted.	ss, excluding the rewarded balance change. The 101st to 107th fields record the eighth group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded and other groups of fields are
106	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier. This field records the currency ID of the default account when the credit limit is deducted.	
107	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account. This field records 1 when the credit limit is deducted.	

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SN	Field Name	Field Type	Description	Field Category
				left empty.
108	ACCT_ID	NUMBER[20]	Account ID. This field records the account ID when the credit limit is deducted.	The 52nd to 121st fields record 10 groups of balance change in the charging process, excluding the rewarded balance change. The 108th to 114th fields record the ninth group of balance change information. If *N* balance chang
109	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account. This field records the credit limit ID when the credit limit is deducted.	
110	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier. This field records 3000 when the credit limit is deducted.	
111	CUR_BALANCE	NUMBER[20]	Current balance. This field records the available credit limit when the credit limit is deducted.	
112	CHG_BALANCE	NUMBER[20]	Change amount of the balance. This field records the deducted credit limit when the credit limit is deducted.	
113	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier. This field records the currency ID of the default account when the credit limit is deducted.	
114	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account. This field records 1 when the credit limit is deducted.	

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SN	Field Name	Field Type	Description	Field Category
				es are involved, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
115	ACCT_ID	NUMBER[20]	Account ID. This field records the account ID when the credit limit is deducted.	The 52nd to 121st fields record 10 groups of balance change in the charging process, excluding the rewarded balance chang
116	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account. This field records the credit limit ID when the credit limit is deducted.	
117	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier. This field records 3000 when the credit limit is deducted.	
118	CUR_BALANCE	NUMBER[20]	Current balance. This field records the available credit limit when the credit limit is deducted.	
119	CHG_BALANCE	NUMBER[20]	Change amount of the balance. This field records the deducted credit limit when the credit limit is deducted.	
120	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier. This field records the currency ID of	

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SN	Field Name	Field Type	Description	Field Category
			the default account when the credit limit is deducted.	e. The 115th to 121st fields record the tenth group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
121	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account. This field records 1 when the credit limit is deducted.	
122	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. • **S**: subscriber • **G**: subscriber group • **C**: customer	The 122nd to 201st fields

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SN	Field Name	Field Type	Description	Field Category
123	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	record 10 groups of free unit change in the charging process, excluding the change of free units that are rewarded and rolled over. The 122nd to 129th fields record the first group of free unit change information. If *N* free unit changes are involved, the
124	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
125	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
126	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	
127	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	
128	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
129	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
130	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. • **S**: subscriber • **G**: subscriber group • **C**: customer	The 122nd to 201st fields record 10 groups of free unit change in the charging process, excluding the change of free units that are rewarded and
131	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
132	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
133	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
134	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	
135	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	
136	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
137	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit	

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SN	Field Name	Field Type	Description	Field Category
			instance. • **2**: Increase the income. That is, add a free unit instance.	rolled over. The 130th to 137th fields record the second group of free unit change information. If *N* free unit changes are involved, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
138	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. • **S**: subscriber	The 122nd

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SN	Field Name	Field Type	Description	Field Category
			• **G**: subscriber group • **C**: customer	to 201st fields record 10 groups of free unit change in the charging process, excluding the change of free units that are rewarded and rolled over. The 138th to 145th fields record the third group of free unit change information. If *N* free unit changes are
139	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
140	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
141	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
142	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	
143	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	
144	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
145	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				involved, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
146	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. • **S**: subscriber • **G**: subscriber group • **C**: customer	The 122nd to 201st fields record 10 groups of free unit change in the charging process, excluding the change of free units that are
147	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
148	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
149	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
150	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	
151	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	
152	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
153	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows:	

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SN	Field Name	Field Type	Description	Field Category
			• **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	rewarded and rolled over. The 146th to 153rd fields record the fourth group of free unit change information. If *N* free unit changes are involved, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
154	FU_OWN_TY	VARCHAR2[	Free unit owner type.	The

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SN	Field Name	Field Type	Description	Field Category
	PE	1]	• **S**: subscriber • **G**: subscriber group • **C**: customer	122nd to 201st fields record 10 groups of free unit change in the charging process, excluding the change of free units that are rewarded and rolled over. The 154th to 161st fields record the fifth group of free unit change information. If *N* free unit chang
155	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
156	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
157	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
158	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	
159	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	
160	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
161	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				es are involved, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
162	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. • **S**: subscriber • **G**: subscriber group • **C**: customer	The 122nd to 201st fields record 10 groups of free unit change in the charging process, excluding the change of free units that
163	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
164	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
165	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
166	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	
167	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	
168	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
169	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows:	

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SN	Field Name	Field Type	Description	Field Category
			• **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	are rewarded and rolled over. The 162nd to 169th fields record the sixth group of free unit change information. If *N* free unit changes are involved, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.

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SN	Field Name	Field Type	Description	Field Category
170	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. • **S**: subscriber • **G**: subscriber group • **C**: customer	The 122nd to 201st fields record 10 groups of free unit change in the charging process, excluding the change of free units that are rewarded and rolled over. The 170th to 177th fields record the seventh group of free unit change information. If *N* free
171	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
172	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
173	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
174	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	
175	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	
176	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
177	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				unit changes are involved, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
178	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. • **S**: subscriber • **G**: subscriber group • **C**: customer	The 122nd to 201st fields record 10 groups of free unit change in the charging process, excluding the change of free
179	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
180	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
181	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
182	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	
183	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	
184	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	

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SN	Field Name	Field Type	Description	Field Category
185	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	units that are rewarded and rolled over. The 178th to 185th fields record the eighth group of free unit change information. If *N* free unit changes are involved, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty

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SN	Field Name	Field Type	Description	Field Category
				.
186	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. • **S**: subscriber • **G**: subscriber group • **C**: customer	The 122nd to 201st fields record 10 groups of free unit change in the charging process, excluding the change of free units that are rewarded and rolled over. The 186th to 193rd fields record the ninth group of free unit change information. If
187	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
188	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
189	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
190	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	
191	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	
192	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
193	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				N free unit changes are involved, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
194	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. • **S**: subscriber • **G**: subscriber group • **C**: customer	The 122nd to 201st fields record 10 groups of free unit change in the charging process, excluding the change of
195	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
196	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
197	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
198	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	
199	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	
200	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID	

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SN	Field Name	Field Type	Description	Field Category
			Field Description.	free units that are rewarded and rolled over. The 194th to 201st fields record the tenth group of free unit change information. If *N* free unit changes are involved, the first *N* groups of free unit change fields are recorded and other groups of fields are left
201	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				empty.
202	ACCT_ID	NUMBER[20]	Account ID.	The 202nd to 271st fields record 10 groups of bonus details in the charging process, including the bonus that is rewarded or rolled over. The 202nd to 208th fields record the first group of bonus details. If *N* bonuses are involved, the first *N* groups of bonus
203	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	
204	BALANCE_TYPE	NUMBER[20]	Balance type.	
205	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	
206	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	
207	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	
208	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	

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SN	Field Name	Field Type	Description	Field Category
				details fields are recorded and other groups of fields are left empty.
209	ACCT_ID	NUMBER[20]	Account ID.	The 202nd to 271st fields record 10 groups of bonus details in the charging process, including the bonus that is rewarded or rolled over. The 209th to 215th fields record the second
210	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	
211	BALANCE_TYPE	NUMBER[20]	ID of a balance account.	
212	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	
213	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	
214	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	
215	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	

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SN	Field Name	Field Type	Description	Field Category
				group of bonus details. If *N* bonuses are involved, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
216	ACCT_ID	NUMBER[20]	Account ID.	The 202nd to 271st fields record 10 groups of bonus details in the charging process, including the bonus
217	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	
218	BALANCE_TYPE	NUMBER[20]	Balance type.	
219	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	
220	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	
221	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	
222	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing	

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SN	Field Name	Field Type	Description	Field Category
			bonus account book.	that is rewarded or rolled over. The 216th to 222nd fields record the third group of bonus details. If *N* bonuses are involved, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
223	ACCT_ID	NUMBER[20]	Account ID.	The 202nd to 271st fields record 10 group
224	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	
225	BALANCE_TYPE	NUMBER[20]	Balance type.	
226	BONUS_AM	NUMBER[20]	Bonus amount.	

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SN	Field Name	Field Type	Description	Field Category
	OUNT			s of bonus details in the charging process, including the bonus that is rewarded or rolled over. The 223rd to 229th fields record the fourth group of bonus details. If *N* bonuses are involved, the first *N* groups of bonus details fields are recorded and other groups of fields
227	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	
228	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	
229	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	

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SN	Field Name	Field Type	Description	Field Category
				are left empty.
230	ACCT_ID	NUMBER[20]	Account ID.	The 202nd to 271st fields record 10 groups of bonus details in the charging process, including the bonus that is rewarded or rolled over. The 230th to 236th fields record the fifth group of bonus details. If *N* bonuses are involved, the first *N* group
231	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	
232	BALANCE_TYPE	NUMBER[20]	Balance type.	
233	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	
234	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	
235	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	
236	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	

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SN	Field Name	Field Type	Description	Field Category
				s of bonus details fields are recorded and other groups of fields are left empty.
237	ACCT_ID	NUMBER[20]	Account ID.	The 202nd to 271st fields record 10 groups of bonus details sixth group of granted bonus in the charging process, including the bonus that is rewarded or rolled over. The
238	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	
239	BALANCE_TYPE	NUMBER[20]	Balance type.	
240	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	
241	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	
242	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	
243	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	

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SN	Field Name	Field Type	Description	Field Category
				237th to 243rd fields record the sixth group of bonus details. If *N* bonuses are involved, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
244	ACCT_ID	NUMBER[20]	Account ID.	The 202nd to 271st fields record 10 groups of bonus details in the
245	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	
246	BALANCE_TYPE	NUMBER[20]	Balance type.	
247	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	
248	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	
249	CURRENCY_	NUMBER[10]	Currency type ID, which can be	

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SN	Field Name	Field Type	Description	Field Category
	ID		customized by a carrier.	charging process, including the bonus that is rewarded or rolled over. The 244th to 250th fields record the seventh group of bonus details. If *N* bonuses are involved, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
250	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	

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SN	Field Name	Field Type	Description	Field Category
251	ACCT_ID	NUMBER[20]	Account ID.	The 202nd to 271st fields record 10 groups of bonus details in the charging process, including the bonus that is rewarded or rolled over. The 251st to 257th fields record the eighth group of bonus details. If *N* bonuses are involved, the first *N* groups of bonus details fields
252	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	
253	BALANCE_TYPE	NUMBER[20]	Balance type.	
254	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	
255	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	
256	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	
257	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	

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SN	Field Name	Field Type	Description	Field Category
				are recorded and other groups of fields are left empty.
258	ACCT_ID	NUMBER[20]	Account ID.	The 202nd to 271st fields record 10 groups of bonus details in the charging process, including the bonus that is rewarded or rolled over. The 258th to 264th fields record the ninth group of bonus detail
259	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	
260	BALANCE_TYPE	NUMBER[20]	ID of a balance account.	
261	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	
262	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	
263	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	
264	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	

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SN	Field Name	Field Type	Description	Field Category
				s. If *N* bonuses are involved, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
265	ACCT_ID	NUMBER[20]	Account ID.	The 202nd to 271st fields record 10 groups of bonus details in the charging process, including the bonus that is rewarded or rolled
266	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	
267	BALANCE_TYPE	NUMBER[20]	ID of a balance account.	
268	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	
269	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	
270	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	
271	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	

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SN	Field Name	Field Type	Description	Field Category
				over. The 265th to 271st fields record the tenth group of bonus details. If *N* bonuses are involved, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
272	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	The 272nd to 351st fields record 10 groups of free unit rewar
273	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	
274	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
275	FREE_UNIT_	NUMBER[20]	Free unit ID.	

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SN	Field Name	Field Type	Description	Field Category
	ID			d details in the charging process, including the free unit that is rewarded and rolled over. The 272nd to 279th fields record the first group of free unit reward details. If *N* free unit rewards are involved, the first *N* groups of free unit reward details
276	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
277	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
278	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
279	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				fields are recorded and other groups of fields are left empty.
280	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	The 272nd to 351st fields record 10 groups of free unit reward details in the charging process, including the free unit that is rewarded and rolled over. The 280th to 287th fields record
281	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	
282	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
283	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
284	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
285	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
286	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
287	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				the second group of free unit reward details. If *N* free unit rewards are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
288	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	The 272nd to 351st fields record 10 groups of free
289	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	
290	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	

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SN	Field Name	Field Type	Description	Field Category
291	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	unit reward details in the charging process, including the free unit that is rewarded and rolled over. The 288th to 295th fields record the third group of free unit reward details. If *N* free unit rewards are involved, the first *N* groups of free unit reward
292	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
293	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
294	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
295	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				details fields are recorded and other groups of fields are left empty.
296	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	The 272nd to 351st fields record 10 groups of free unit reward details in the charging process, including the free unit that is rewarded and rolled over. The 296th to 303rd
297	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	
298	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
299	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
300	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
301	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
302	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
303	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				fields record the fourth group of free unit reward details. If *N* free unit rewards are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
304	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	The 272nd to 351st fields record 10 groups of
305	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	
306	FREE_UNIT_	NUMBER[20]	Free unit type.	

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SN	Field Name	Field Type	Description	Field Category
	TYPE			free unit reward details in the charging process, including the free unit that is rewarded and rolled over. The 304th to 311st fields record the fifth group of free unit reward details. If *N* free unit rewards are involved, the first *N* groups of free unit rewar
307	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
308	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
309	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
310	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
311	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				d details fields are recorded and other groups of fields are left empty.
312	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	The 272nd to 351st fields record 10 groups of free unit reward details in the charging process, including the free unit that is rewarded and rolled over. The 312nd to
313	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	
314	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
315	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
316	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
317	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
318	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
319	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				319th fields record the sixth group of free unit reward details. If *N* free unit rewards are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
320	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	The 272nd to 351st fields record 10 group
321	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	

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SN	Field Name	Field Type	Description	Field Category
322	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	s of free unit reward details in the charging process, including the free unit that is rewarded and rolled over. The 320th to 327th fields record the seventh group of free unit reward details. If *N* free unit rewards are involved, the first *N* groups of free
323	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
324	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
325	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
326	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
327	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				unit reward details fields are recorded and other groups of fields are left empty.
328	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	The 272nd to 351st fields record 10 groups of free unit reward details in the charging process, including the free unit that is rewarded and rolled over. The
329	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	
330	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
331	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
332	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
333	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
334	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
335	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				328th to 335th fields record the eighth group of free unit reward details. If *N* free unit rewards are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
336	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	The 272nd to 351st fields record

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SN	Field Name	Field Type	Description	Field Category
337	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	10 groups of free unit reward details in the charging process, including the free unit that is rewarded and rolled over. The 336th to 343rd fields record the ninth group of free unit reward details. If *N* free unit rewards are involved, the first *N* groups of
338	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
339	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
340	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
341	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
342	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
343	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				free unit reward details fields are recorded and other groups of fields are left empty.
344	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	The 272nd to 351st fields record 10 groups of free unit reward details in the charging process, including the free unit that is rewarded and rolled over.
345	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	
346	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
347	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	
348	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
349	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
350	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
351	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
				The 344th to 351st fields record the tenth group of free unit reward details. If *N* free unit rewards are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.

NOTE

After the 351st field, The fields behind record charging service information. The fields can be extended for each service to meet site requirements. For the basic extended information in CDR files, see 4.2.2 Extended Charging Service Information.

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4.2.2 Extended Charging Service Information

This topic describes the charging service fields extended in baseline CDR files. Each site can customize more extended fields based on the site requirements.

4.2.2.1 Extended Charging Service Information in a Voice CDR

This topic describes extended fields in the charging service information in a voice CDR.

CDR Instance

- MT process: cbs_cdr_voice_20160827_751_101_000249.add

```
701000000000000224|0|N|N|201608270650|0|0|701000000000000224|A|0|20160827065359
|20160827065416|20160827065916|20160827145416|20160827145916|11000|D|S|10000000
0000001113|100000000000001112|100000000000001115|861361090009|20160801|1|14|cyl
;1472280757;0000059747;0000000001|0|3|101|0|10000|861361090009|1003|300|300|1|0
|0|0|0|215000000|0|215000000|215000000|0|0|0|0|0|0|100000000000001115|7010000
00000000085|2000|785000000|215000000|1049|0||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||861360011000|861361090009||1361090009|||2|00|||8625|960001
234567890|20160827065346|101|0|20160827065416|0|3|1F|0||000||8625|1822667956|12
2666807|1361090009|1|0|0|1|1|86|25|1|86|25|1|86|25|1|86|2345|1||0|0|0|0||0|0|1|
1|1|||||||0|0|20160731160000|122666807|0|0||||1000000|0||215000000||||0||
```

- MF process: cbs_cdr_voice_20160827_751_101_000251.add

```
701000000000000225|0|N|N|201608270650|0|0|701000000000000225|A|0|20160827065929
|20160827070352|20160827070452|20160827150352|20160827150452|11000|D|S|10000000
0000001117|100000000000001116|100000000000001119|861361090010|20160801|1|11|cyl
;1472281073;0000059747;0000000001|0|1|101|0|10000|861300012000|1003|60|60|1|0|0
|0|0|66000000|0|66000000|66000000|0|0|0|0|0|0|0|100000000000001119|701000000000
000086|2000|934000000|66000000|1049|0||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||
```

```
26|2||0|0|0|0||0|0|0|1|0|||||||0|0|20160731160000|122666807|0|0||||1000000|0||1
15000000||||0||
```

- International toll call using main funds: cbs_cdr_voice_20160827_751_101_000259.add

```
701000000000000227|0|N|N|201608270700|0|0|701000000000000227|A|0|20160827070847
|20160827070904|20160827071404|20160827150904|20160827151404|11000|D|S|10000000
0000001124|100000000000001123|100000000000001126|861361090011|20160801|1|13|cyl
;1472281618;0000059747;0000000001|0|3|101|0|10000|85285200100|1003|300|300|1|0|
0|0|0|145000000|0|145000000|145000000|0|0|0|0|0|0|0|100000000000001126|70100000
0000000088|2000|855000000|145000000|1049|0||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||861361090011|85285200100|1361090011||0085285200100||1|00|86
25|7600012345608792|85285||20160827070834|101|0|20160827070904|0|3|1F|0||000|||
1822667956|122666807|1361090011|1|0|0|3|2|86|25|1|86|2345|1|852|33|1|852|33|1||
0|0|0|0||0|0|0|1|0|||||||0|0|20160731160000|122666807|0|0||||1000000|0||1450000
00||||0||
```

- Call process to a special number: cbs_cdr_voice_20160827_751_101_000257.add

```
701000000000000226|0|N|N|201608270700|0|0|701000000000000226|A|0|20160827070548
|20160827070859|20160827070959|20160827150859|20160827150959|11000|D|S|10000000
0000001121|100000000000001120|100000000000001122|861360000040|20160801|1|10|147
2281440687;0000000001;0000000001|0|3|101|0|10000|861360000040|1003|60|60|1|0|0|
0|0|330000000|0|330000000|330000000|0|0|0|0|0|0|0|100000000000001122|7010000000
00000087|2000|999670000000|330000000|1049|0||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||86333|861360000040||333|||2|00|218133||86133|4600100025000
25|20160827070343|101|0|20160827070859|0|3|1F|0||000||86133|1822667956|13210601
50|1360000040|1|0|0|0|0|86|25|1|218|32|3|86|25|1|86|25|1||3|0|0|0||0|0|1|1|1|||
||||0|0|20160731160000|0|0|0||||1000000|0||33000000||||0||
```

- Local MO process using main funds: cbs_cdr_voice_20160827_751_101_000243.add

```
701000000000000222|0|N|N|201608270630|0|0|701000000000000222|A|0|20160827063501
|20160827063503|20160827064003|20160827143503|20160827144003|11000|D|S|10000000
0000001101|100000000000001100|100000000000001103|861361090006|20160801|1|12|cyl
;1472279652;0000059747;0000000001|0|3|101|0|10000|86137001000000|1003|300|300|1
|0|0|0|0|85000000|0|85000000|85000000|0|0|0|0|0|0|0|100000000000001103|70100000
0000000082|2000|915000000|85000000|1049|0||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||861361090006|86137001000000|101361090006||0086137001000000||
1|00|8625||8626||20160827063433|101|0|20160827063503|0|3|1F|0||000||8625|182266
7956|122666807|1361090006|1|0|0|2|0|86|25|1|86|25|1|86|26|1|86|26|2||0|0|0|0||0
|0|1|1|1|||||||0|0|20160731160000|122666807|0|0||||1000000|0||85000000||||0||
```

- Local MO process using free units: cbs_cdr_voice_20160827_751_101_000275.add

```
701000000000000229|0|N|N|201608270830|0|0|701000000000000229|A|0|20160827083243
|20160827083707|20160827083807|20160827163707|20160827163807|11000|D|S|10000000
0000001138|100000000000001137|100000000000001140|861361090014|20160801|1|11|cyl
;1472286764;0000059747;0000000001|0|1|101|0|10000|861300012000|1003|60|60|1|0|0
|0|0|2000000|0|2000000|2000000|0|0|0|0|0|0|0|100000000000001140|701000000000000
092|2000|998000000|2000000|1049|0||||||||||||||||||||||||||||||||||||||||||||
```


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```
||||||
```

```
1360010003|1361010006||00861360010003||1|00|8625||8625||20160922155848|101
|0|20160922155948|0|0|1F|0||000||8625|1822667956|122666807|1361010006|1|0|
0|0|0|86|25|1|86|25|1|86|25|1|86|25|1||0|0|0|0||0|0|1|1|1|||||||0|0|201608
31160000|122666807|0|0||||1000000|0||1000000||||0||
```

– cbs_cdr_voice_20160923_751_101_000022.add

```
701000000000000364|1|N|D|201609221550|0|0|701000000000000363|A|0|201609221
60124|20160922160000|20160922161858|20160923000000|20160923001858|11000|D|
S|100000000000002109|100000000000002108|100000000000002111|861361010006|20
160901|1|10|lxx;1474559885;0000059747;0000000001|0|3|101|0|10000|861360010
003|1003|868|840|1|0|0|0|0|14000000|0|14000000|14000000|0|0|0|0|0|0|0|1000
00000000002111|701000000000000106|2000|97930000000|14000000|1049|0||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
|0|0|0|0|85000000|0|85000000|85000000|0|0|0|0|0|0|0|100000000000001415|70100000
0000000210|2000|915000000|85000000|1049|0||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||
```

SN	Field Name	Field Type	Description	Sample Value
			code + Area code + PSTN • Mobile number: Country code + MSISDN • URI format: number reported by the network side This field cannot be left empty.	
354	CallingPartyIMSI	VARCHAR2[64]	IMSI of the calling party. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	-
355	CalledPartyIMSI	VARCHAR2[64]	IMSI of the called party. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	-
356	DialedNumber	VARCHAR2[64]	Number that is dialed. The value is reported by the network side in the MO process. If no value is reported, this field is left empty. The value can be in any format. This field can be left empty.	00861361000 01001
357	OriginalCalledParty	VARCHAR2[64]	Original called number in the MF process. The number formats are as follows: • Fixed-line number: Country code + Area code + PSTN • Mobile number: Country code + MSISDN • URI format: number reported by the network side This field can be left empty.	-
358	ServiceFlow	VARCHAR2[1]	Call process ID. The options are as follows: • **1**: MO • **2**: MT • **3**: MF This field cannot be left empty.	1
359	CallForwardIndicator	VARCHAR2[2]	Call forwarding flag. The options are as follows:	00

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SN	Field Name	Field Type	Description	Sample Value
			• **00**: no call forwarding • **10**: call forwarding conditional due to an unknown reason • **11**: call forwarding busy • **12**: call forwarding no reply • **13**: call forwarding unreachable • **14**: call forwarding power-off • **20**: call forwarding unconditional • **21**: call forwarded to a voice mailbox • **22**: international call forwarding This field cannot be left empty.	
360	CallingRoamInfo	VARCHAR2[20]	Roaming information about the calling party. This field is used to analyze the calling party's roaming status and can be set to the value of fields such as **LocationNumber**, **MSCAddress**, or **VLRNumber**. The value depends on the control parameter specifying the roaming analysis method. This field can be left empty.	-
361	CallingCellID	VARCHAR2[20]	Cell ID of the calling party, which is reported in an IDP message. If the OCS does not need to analyze the visited area based on the cell ID, this field can be left empty. The format is Three-digit MCC + Two-digit MNC + Five-digit LAC + Five-digit cell ID, for example, **460002230320412**.	-
362	CalledRoamInfo	VARCHAR2[20]	Roaming information about the called party. This field is used to analyze the called party's roaming status and can be set to the value of fields such as **LocationNumber**, **MSCAddress**, or **VLRNumber**. The value depends on the control parameter specifying the roaming	-

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SN	Field Name	Field Type	Description	Sample Value
			analysis method. This field can be left empty.	
363	CalledCellID	VARCHAR2[20]	Cell ID of the called party. If the OCS does not need to analyze the visited area based on the cell ID, this field can be left empty. The format is Three-digit MCC + Two-digit MNC + Five-digit LAC + Five-digit cell ID, for example, **460002230320412**.	-
364	TimeStampOfSSP	VARCHAR2[14]	Timestamp reported by the SSP. Format: YYYYMMDDhhmmss This field can be left empty.	20141201092545
365	TimeZoneOfSSP	NUMBER[10]	Time zone where the SSP locates. • Empty: default time zone • Non-empty: reported time zone This field can be left empty.	0
366	BearerCapability	VARCHAR2[32]	Bearer capability reported by the OCG. The options are as follows: • **8**: video call • **9**: voice data • **10**: voice fax • **0**: normal call The value is reported by external systems. If no value is reported, this field is left empty. The system considers that the value is **0** if this field is left empty.	0
367	ChargingTime	VARCHAR2[14]	UTC time when a service charging starts. Format: YYYYMMDDhhmmss This field cannot be left empty.	20141201222612
368	WaitDuration	NUMBER[10]	Waiting duration. This field is reserved and has a fixed value of **0**.	0
369	Termination Reason	NUMBER[10]	Call termination reason. The options are as follows: • **0**: Unknown. • **1**: A subscriber hangs up the	0

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SN	Field Name	Field Type	Description	Sample Value
			phone. • **2**: The account balance is insufficient. • **3**: The call duration reaches the maximum. The default value is **0**. This field cannot be left empty.	
370	CallReferenceNumber	VARCHAR2 [128]	Call reference number. • On the GSM network, this field records the **CallReferenceNumber** value reported in an IDP message. • On the CDMA network, this field records the **BillID** value reported in an ORREQ message. • For a SIP call, this field records the **Call-ID** value reported in a SIP message. • If an external system does not report the call reference number, the OCS generates one in the format YYYYMMDDhhmmss + Three-digit OCG ID + Four-digit automaton number. **NOTE** If the automaton number contains less than four digits, prefix the number with 0. If the automaton number contains more than four digits, obtain the last four digits. The value is reported by external systems. If no value is reported, this field is left empty.	-
371	IMEI	VARCHAR2 [24]	International mobile equipment identity. The value is reported by external systems. If no value is reported, this field is left empty.	-
372	AccessPrefix	VARCHAR2 [20]	Special prefix that a subscriber dials, for example, IP prefix, international gateway prefix, or a carrier's access code prefix. Format: prefix:prefix type This field can be left empty for	4040:4

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SN	Field Name	Field Type	Description	Sample Value
			non-special numbers.	
373	RoutingPrefix	VARCHAR2[20]	Routing prefix for rerouting a call. This field can be left empty.	-
374	RedirectingPartyID	VARCHAR2[64]	Redirected-to number in the MF process. This field can be left empty in non-MF processes.	-
375	MSCAddress	VARCHAR2[24]	MSC address. If the OCS uses this field to analyze the visited area for the charged party, this field cannot be left empty. If the OCS does not use this field to analyze the visited area, this field can be left empty. Format: Country code + NDC + LSP	-
376	BrandID	NUMBER[20]	Brand ID. This field cannot be left empty. The default value is **0**.	170334111
377	MainOfferingID	NUMBER[20]	Primary offering ID. This field cannot be left empty. The default value is **0**.	970333853
378	ChargingPartyNumber	VARCHAR2[64]	Charged number. The number formats are as follows: • Fixed-line number: Area code + PSTN • Mobile number: MSISDN • URI format This field cannot be left empty.	138000006661
379	ChargePartyIndicator	VARCHAR2[1]	Payer. The options are as follows: • **1**: charged party only • **2**: reserved • **3**: third party only • **4**: both charged party and third party • **N**: no fee deduction This field cannot be left empty.	1
380	PayType	VARCHAR2[1]	Payment type of a subscriber. The options are as follows:	0

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SN	Field Name	Field Type	Description	Sample Value
			• **0**: prepaid • **1**: postpaid • **2**: hybrid This field cannot be left empty.	
381	ChargingType	VARCHAR2[1]	Charging type. The options are as follows: • **0**: V-H • **1**: H-H • **2**: V-V • **3**: H-V **NOTE** In the option descriptions, V indicates the visited area and H indicates the home area. For example, value **0** indicates that the visited location of the calling party and the home location of the called party are used for number analysis. This field cannot be left empty.	0
382	CallType	VARCHAR2[1]	Call type. The options are as follows: • **0**: local call • **1**: toll call within a charging area • **2**: toll call between charging areas • **3**: international toll call This field cannot be left empty.	0
383	RoamState	VARCHAR2[1]	Roaming status of the charged party. The options are as follows: • **0**: non-roaming • **1**: roaming within a charging area • **2**: roaming out of a charging area • **3**: international roaming This field cannot be left empty.	0
384	CallingHomeCountryCode	NUMBER[10]	Home country code of the calling party. This field cannot be left empty.	86
385	CallingHomeAreaNumber	NUMBER[10]	Home area code of the calling party.	25

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SN	Field Name	Field Type	Description	Sample Value
			This field cannot be left empty.	
386	CallingHomeNetworkCode	NUMBER[10]	Home network code of the calling party. This field cannot be left empty.	1
387	CallingRoamCountryCode	NUMBER[10]	Roam-in country code of the calling party. This field can be left empty.	86
388	CallingRoamAreaNumber	NUMBER[10]	Roam-in area code of the calling party. This field can be left empty.	25
389	CallingRoamNetworkCode	NUMBER[10]	Roam-in network code of the calling party. This field can be left empty.	1
390	CalledHomeCountryCode	NUMBER[10]	Home country code of the called party. This field can be left empty.	86
391	CalledHomeAreaNumber	NUMBER[10]	Home area code of the called party. This field can be left empty.	25
392	CalledHomeNetworkCode	NUMBER[10]	Home network code of the called party. This field can be left empty.	1
393	CalledRoamCountryCode	NUMBER[10]	Roam-in country code of the called party. This field can be left empty.	86
394	CalledRoamAreaNumber	NUMBER[10]	Roam-in area code of the called party. This field can be left empty.	25
395	CalledRoamNetworkCode	NUMBER[10]	Roam-in network code of the called party. This field can be left empty.	1
396	ServiceType	VARCHAR2[128]	List of product codes used to charge the charged party. Multiple product codes are separated with a colon (:). This field can be left empty.	-
397	HotLineIndicator	NUMBER[10]	Special number type. The options are as follows: • **0**: common number	0

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SN	Field Name	Field Type	Description	Sample Value
			• **1**: barred number • **2**: free number • **3**: Special-tariff number • **9**: voice mail • **10**: APVN Number • **11**: MwD Number The default value is **0**. This field cannot be left empty.	
398	HomeZoneID	NUMBER[10]	ID of the home zone where the subscriber enjoys a discount. The default value is **0**. This field cannot be left empty.	0
399	SpecialZoneID	NUMBER[10]	ID of the special zone where the subscriber enjoys a discount. The default value is **0**. This field cannot be left empty.	0
400	NPFlag	VARCHAR2[1]	NP flag. The options are as follows: • **0**: not NP • **1**: NP out The default value is **0**. This field cannot be left empty.	0
401	NPPrefix	VARCHAR2[6]	NP prefix. • Set this field to the NP prefix of the called party in the MO process. • Set this field to the NP prefix of the calling party in the MT process. This field is left empty if NP is not executed.	-
402	CallingCUGNo	NUMBER[20]	CUG number of the calling party. The default value is **0**. This field cannot be left empty.	0
403	CalledCUGNo	NUMBER[20]	CUG number of the called party. The default value is **0**. This field cannot be left empty.	0
404	OpposeNumberType	NUMBER[10]	Peer network type. The options are as follows:	1

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SN	Field Name	Field Type	Description	Sample Value
			• **1**: GSM • **2**: CDMA • **3**: ADSL • **4**: PSTN • **5**: WiMAX • Others: unknown This field cannot be left empty.	
405	CallingNetworkType	VARCHAR2 [10]	Access network type of the calling party. The options are as follows: • **1**: GSM • **2**: CDMA • **3**: ADSL • **4**: PSTN • **5**: WiMAX • Others: unknown This field cannot be left empty.	1
406	CalledNetworkType	VARCHAR2 [10]	Access network type of the called party. The options are as follows: • **1**: GSM • **2**: CDMA • **3**: ADSL • **4**: PSTN • **5**: WiMAX • Others: unknown This field cannot be left empty.	1
407	CallingVPNTopGroupNumber	VARCHAR2 [64]	Number of the top-level corporation to which the calling party belongs. This field is valid only in the MO and MF processes where the calling party is a corporate member. This field is empty when no corporation information exists. This field can be left empty.	-
408	CallingVPNGroupNumber	VARCHAR2 [64]	Number of the corporation to which the calling party belongs. This field is valid only in the MO and MF processes where the calling party is a corporate	-

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SN	Field Name	Field Type	Description	Sample Value
			member. This field is empty when no corporation information exists. This field can be left empty.	
409	CallingVPNShortNumber	VARCHAR2[10]	Short number of the calling party. This field is valid only in the MO and MF processes where the calling party is a corporate member. This field can be left empty.	-
410	CalledVPNTopGroupNumber	VARCHAR2[64]	Number of the top-level corporation to which the called party belongs. This field is valid only in the MT process where the called party is a corporate member. This field is empty when no corporation information exists. This field can be left empty.	-
411	CalledVPNGroupNumber	VARCHAR2[64]	Number of the corporation to which the called party belongs. This field is valid only in the MT process where the called party is a corporate member. This field is empty when no corporation information exists. This field can be left empty.	-
412	CalledVPNShortNumber	VARCHAR2[10]	Short number of the called party. This field is valid only in the MT process where the called party is a corporate member. This field can be left empty.	-
413	GroupCallType	NUMBER[10]	Corporate call type. This field is valid only when the charged party is a corporate subscriber. The options are as follows: • **0**: non-corporate call • **1**: corporate intra-network call • **2**: corporate inter-network call The default value is **0**. This field cannot be left empty.	0

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SN	Field Name	Field Type	Description	Sample Value
414	OnlineChargingFlag	VARCHAR2[1]	Online charging flag. The options are as follows: • **0**: online charging • **1**: offline charging This field cannot be left empty.	0
415	StartTimeOfBillCycle	VARCHAR2[14]	Start time of the bill cycle for which fees are deducted. Format: YYYYMMDDhhmmss This field cannot be left empty.	20141130220000
416	LastEffectOffering	NUMBER[20]	ID of the last offering or global pricing plan that takes effect. The default value is **0**. This field cannot be left empty.	970333853
417	DTDiscount	NUMBER[10]	DT discount rate. The default value is **0**. The unit is permyriad. For example, the value 8550 indicates 85.50%. This field can be left empty.	0
418	OpposeMainOfferingID	NUMBER[20]	Primary offering ID of the peer party's number. The default value is **0**. This field cannot be left empty.	0
419	MainBalanceInfo	VARCHAR2[255]	This field is reserved.	-
420	ChgBalanceInfo	VARCHAR2[255]	This field is reserved.	-
421	ChgFreeUnitInfo	VARCHAR2[255]	This field is reserved.	-
422	UserState	VARCHAR2[10]	Life cycle state and the management state of a subscriber. The **UserState** parameter is a numeric string of seven digits, in the format *CCMMMMM*. The first and second digits C indicate the life cycle state of a subscriber. The first digit C indicates the state of a prepaid subscriber, and the second digit C indicates the state of a postpaid subscriber. The options are as follows:	1000000

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SN	Field Name	Field Type	Description	Sample Value
			• 0: Idle • 1: Active • 2: Suspended • 3: Disable • 4: Pool • 5: Pool without activation The next five digits *MMMMM* indicate the management state of a subscriber. The options are as follows: • The third digit indicates whether a subscriber claims missing. **0**: no **1**: yes • The fourth digit indicates whether a subscriber is barred or suspended upon subscriber request. **0**: no **1**: barred or suspended on subscriber request **2**: barred on subscriber request **3**: suspended on subscriber request • The fifth digit indicates whether a subscriber is barred or suspended on arrears. **0**: no **1**: yes • The sixth digit indicates whether a subscriber is barred or suspended on credit control. This digit is reserved. **0**: no **1**: yes • The seventh digit indicates the blacklist flag. **0**: not blacklisted **1**: blacklisted This field cannot be left empty.	
423	GroupPayFlag	NUMBER[10]	Payment mode of the corporate member.	0

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SN	Field Name	Field Type	Description	Sample Value
			The options are as follows: • **0**: personal payment • **1**: group payment • **2**: corporate and personal payment The default value is **0**. This field cannot be left empty.	
424	RoamingZoneID	VARCHAR2[20]	Roaming zone ID. This field can be left empty.	-
425	PrimaryOfferChgAmt	NUMBER[20]	Primary offering rating amount. The value of this field is only for reference and cannot be used for audit. The default value is **0**. This field cannot be left empty.	0
426	OriginatingIOI	VARCHAR2[128]	ID of the network from which a service is initiated. For the VoLTE call, this field cannot be left empty. For other voice services, this field is left empty. This field can be left empty.	-
427	TerminatingIOI	VARCHAR2[128]	ID of the network to which a service is triggered. For the VoLTE call, this field cannot be left empty. For other voice services, this field is left empty. This field can be left empty.	-
428	IMSCharging Identifier	VARCHAR2[128]	IMS charging ID. For the VoLTE call, this field cannot be left empty. For other voice services, this field is left empty. This field can be left empty.	-
429	Reserved	NUMBER[20]	Reserved.	-
430	RECEPIENT_CP_ID	VARCHAR2[5]	Customer partition ID corresponding to the customer to which the peer number belongs. This field can be left empty.	-

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4.2.2.2 Extended Charging Service Information in an SMS CDR

This topic describes extended fields in the charging service information in an SMS CDR.

CDR Instance

- Main fund deduction for SMS: cbs_cdr_sms_20160921_751_101_000253.add

```
701000000000000263|0|N|N|201609211020|0|0|701000000000000263|A|0|20160921102902
|20160921102928|20160921102928|20160921182928|20160921182928|11002|D|S|10000000
0000001105|100000000000001104|100000000000001107|861361010002|20160901|2|21|lxx
;1474453731;0000059747;0000000001|0|1|101|0|10000|861360010001|1101|1|1|3|0|0|0
|0|1000000|0|1000000|1000000|0|0|0|0|0|0|0|100000000000001107|70100000000000008
3|2000|99000000|1000000|1049|0||||||||||||||||||||||||||||||||||||||||||||||||
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||||||||861361010002|861360010001|||00861360010001||1|0|8625||8625||20160921102
902|0||20160921102928|0|20160921182858||140|993908|0|1822667956|122666807|13610
10002|1|0|0|0|0|0|86|25|1|86|25|1|86|25|1|86|25|1||0|0||0|0|1|1|1|1|||||||0|0|2
0160831160000|122666807|0|0|0|0|||||0||1000000|0||
701000000000000264|0|N|N|201609211030|0|0|701000000000000264|A|0|20160921102954
|20160921103020|20160921103020|20160921183020|20160921183020|11002|D|S|10000000
0000001105|100000000000001104|100000000000001107|861361010002|20160901|2|21|lxx
;1474453783;0000059747;0000000001|0|1|101|0|10000|861360010001|1101|1|1|3|0|0|0
|0|1000000|0|1000000|1000000|0|0|0|0|0|0|0|100000000000001107|70100000000000008
3|2000|98000000|1000000|1049|0||||||||||||||||||||||||||||||||||||||||||||||||
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||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||861361010002|861360010001|||00861360010001||1|0|8625||8625||20160921102
954|0||20160921103020|0|20160921182950||140|993908|0|1822667956|122666807|13610
10002|1|0|0|0|0|0|86|25|1|86|25|1|86|25|1|86|25|1||0|0||0|0|1|1|1|1|||||||0|0|2
0160831160000|122666807|0|0|0|0|||||0||1000000|0||
```

- International roaming SMS: cbs_cdr_sms_20160921_751_101_000273.add

```
701000000000000274|0|N|N|201609211300|0|0|701000000000000274|A|0|20160921130825
|20160921130849|20160921130849|20160921210849|20160921210849|11002|D|S|10000000
0000001105|100000000000001104|100000000000001107|861361010002|20160901|2|28|lxx
;1474463290;0000059747;0000000001|0|1|101|0|10000|861360010001|1101|1|1|3|0|0|0
|0|31000000|0|31000000|31000000|0|0|0|0|0|0|0|100000000000001107|70100000000000
0083|2000|883500000|31000000|1049|0||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||861361010002|861360010001|||00861360010001||1|0|218133||8625||2016
0921130825|0||20160921130849|0|20160921210819||140|993908|0|1822667956|12266680
7|1361010002|1|0|0|3|2|3|86|25|1|218|32|3|86|25|1|86|25|1||0|0||0|0|1|1|1|1||||
|||0|0|20160831160000|122666807|0|0|0|0|||||0||31000000|0||
```

- Fee unit deduction for SMS: cbs_cdr_sms_20160921_751_101_000255.add

```
701000000000000265|0|N|N|201609211210|0|0|701000000000000265|A|0|20160921121250
|20160921121314|20160921121314|20160921201314|20160921201314|11002|D|S|10000000
0000001105|100000000000001104|100000000000001107|861361010002|20160901|2|21|lxx
;1474459960;0000059747;0000000001|0|1|101|0|10000|861360010001|1101|1|1|3|0|0|0
```


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```
|0|0|0|0|0|0|0|0|0|1|0|0||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||S|100000000000001105|701000000000000065|1003|9|1|1101|0||||||||
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|
```

SN	Field Name	Field Type	Description	Sample Value
			+ MSISDN For SP IDs, the reported number is used directly. This field can be left empty.	
354	CallingPartyIMSI	VARCHAR2 [64]	IMSI of the sender. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	-
355	CalledPartyIMSI	VARCHAR2 [64]	IMSI of the recipient. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	-
356	DialedNumber	VARCHAR2 [64]	Number that is dialed. The value is reported by the network side in the MO process. If no value is reported, this field is left empty. The value can be in any format. This field can be left empty.	-
357	OriginalCalledParty	VARCHAR2 [64]	Original called number in a forwarding process or special number reroute process. International number form in call forwarding, actual call number in special number reroute, filling in original called number when dialed through an international gateway office. (be valid in MF flow). This field can be left empty.	51136100001005
358	ServiceFlow	VARCHAR2 [1]	Call process ID. The options are as follows: • **1**: MO • **2**: MT This field cannot be left empty.	2
359	CallForwardIndicator	VARCHAR2 [1]	Call forwarding flag. The options are as follows: • **0**: no call forwarding • **1**: call forwarding conditional • **2**: call forwarding unconditional	0

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SN	Field Name	Field Type	Description	Sample Value
			The default value is **0**. This field cannot be left empty.	
360	CallingRoamInfo	VARCHAR2[20]	Roaming information about the calling party. This field is used to analyze the calling party's roaming status and can be set to the value of fields such as **LocationNumber**, **MSCAddress**, or **VLRNumber**. The value depends on the control parameter specifying the roaming analysis method. For the calling number, it is recorded in the international number format by default. For other information, the reported one is recorded directly. This field can be left empty.	8625
361	CallingCellID	VARCHAR2[20]	Cell ID of the calling party. If the OCS does not need to analyze the visited area based on the cell ID, this field can be left empty. The format is Three-digit MCC + Two-digit MNC + Five-digit LAC + Five-digit cell ID, for example, **460002230320412**. This field can be left empty.	-
362	CalledRoamInfo	VARCHAR2[20]	Roaming information about the called party. This field is used to analyze the called party's roaming status and can be set to the value of fields such as **LocationNumber**, **MSCAddress**, or **VLRNumber**. The value depends on the control parameter specifying the roaming analysis method. This field can be left empty.	8625
363	CalledCellID	VARCHAR2[20]	Cell ID of the called party. If the OCS does not need to analyze the visited area based on the cell ID, this field can be left empty. The format is Three-digit MCC + Two-digit MNC + Five-digit	-

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SN	Field Name	Field Type	Description	Sample Value
			LAC + Five-digit cell ID, for example, **460002230320412**. This field can be left empty.	
364	TimeStampOfSSP	VARCHAR2[14]	Timestamp reported by the SSP. Format: YYYYMMDDhhmmss This field can be left empty.	20141212022930
365	TimeZoneOfSSP	NUMBER[10]	Time zone where the SSP locates. • Empty: default time zone • Non-empty: reported time zone This field can be left empty.	0
366	BearerCapability	VARCHAR2[32]	This field is reserved.	-
367	ChargingTime	VARCHAR2[14]	UTC time when a service charging starts. Format: YYYYMMDDhhmmss This field cannot be left empty.	20141212103426
368	SendResult	NUMBER[10]	SMS message sending result. The options are as follows: • **0**: successful • Others: Enter the value transferred from the interface, for example, SMPP+ interface. The default value is **0**. This field cannot be left empty.	0
369	SMSID	VARCHAR2[63]	SMS message ID. Set this field to the SMS message ID or request sequence number transferred from the SMPP+ interface. The value is reported by external systems. This field cannot be left empty.	1212102928
370	IMEI	VARCHAR2[24]	International mobile equipment identity. This field can be left empty.	-
371	SMLength	NUMBER[10]	SMS message length. This field is valid to sites that charge for SMS messages based on the SMS message length. If the SMS message length is not used	2000

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SN	Field Name	Field Type	Description	Sample Value
			as a charging factor, this field can be left empty or set to **0**. This field can be left empty.	
372	SMSCAddress	VARCHAR2[20]	SMSC address reported by external systems. This field can be left empty.	-
373	RefundIndicator	VARCHAR2[20]	Fee deduction flag. The options are as follows: • **0**: fee deduction • **1**: refund The default value is **0**. This field cannot be left empty.	0
374	BrandID	NUMBER[20]	Brand ID. The default value is **0**. This field cannot be left empty.	170334111
375	MainOfferingID	NUMBER[20]	Primary offering ID. The default value is **0**. This field cannot be left empty.	970333853
376	ChargingPartyNumber	VARCHAR2[64]	Charged number. The number formats are as follows: • Fixed-line number: Area code + PSTN • Mobile number: MSISDN This field cannot be left empty.	136100001005
377	ChargePartyIndicator	VARCHAR2[1]	Payer. The options are as follows: • **1**: charged party only • **2**: reserved • **3**: third party only • **4**: both charged party and third party • **N**: no fee deduction This field cannot be left empty.	2
378	PayType	VARCHAR2[1]	Payment type of a subscriber. The options are as follows: • **0**: prepaid • **1**: postpaid • **2**: hybrid This field cannot be left empty.	0

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SN	Field Name	Field Type	Description	Sample Value
379	ChargingType	VARCHAR2[1]	Charging type. The options are as follows: • **0**: V-H • **1**: H-H • **2**: V-V • **3**: H-V **NOTE** In the option descriptions, V indicates the visited area and H indicates the home area. For example, value **0** indicates that the visited location of the calling party and the home location of the called party are used for number analysis. This field cannot be left empty.	0
380	SMSType	NUMBER[10]	SMS message type. The options are as follows: • **0**: local SMS message • **1**: intra-province toll SMS message • **2**: inter-province toll SMS message • **3**: international toll SMS message This field cannot be left empty.	0
381	OnNetIndicator	VARCHAR2[1]	Analyzed SMS message type according to the network. The options are as follows: • **0**: intra-network • **1**: inter-network • **2**: unknown (This value is used for internatinal toll SMS service or unrecognizable network type (inter-network or intra-network).) This field cannot be left empty.	0
382	RoamState	VARCHAR2[1]	Roaming status of the charged party. The options are as follows: • **0**: non-roaming • **1**: roaming within a charging area • **2**: roaming out of a charging area • **3**: international roaming	0

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SN	Field Name	Field Type	Description	Sample Value
			This field cannot be left empty.	
383	CallingHomeCountryCode	NUMBER[10]	Home country code of the calling party. Generally, the 383rd to 394th fields cannot be left empty. This field can be left empty in scenarios where the process of charging the calling or called party is irrelevant to the home area or visited area of the peer end. In these scenarios, the network side may not report the visited area or number information about the peer end. This field can be left empty.	51
384	CallingHomeAreaNumber	NUMBER[10]	Home area code of the calling party. This field can be left empty.	-1
385	CallingHomeNetworkCode	NUMBER[10]	Home network code of the calling party. This field can be left empty.	1204
386	CallingRoamCountryCode	NUMBER[10]	Roam-in country code of the calling party. This field can be left empty.	51
387	CallingRoamAreaNumber	NUMBER[10]	Roam-in area code of the calling party. This field can be left empty.	-1
388	CallingRoamNetworkCode	NUMBER[10]	Roam-in network code of the calling party. This field can be left empty.	1204
389	CalledHomeCountryCode	NUMBER[10]	Home country code of the called party. This field can be left empty.	51
390	CalledHomeAreaNumber	NUMBER[10]	Home area code of the called party. This field can be left empty.	-1
391	CalledHomeNetworkCode	NUMBER[10]	Home network code of the called party. This field can be left empty.	1204
392	CalledRoamCountryCode	NUMBER[10]	Roam-in country code of the called party.	51

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SN	Field Name	Field Type	Description	Sample Value
			This field can be left empty.	
393	CalledRoamAreaNumber	NUMBER[10]	Roam-in area code of the called party. This field can be left empty.	-1
394	CalledRoamNetworkCode	NUMBER[10]	Roam-in network code of the called party. This field can be left empty.	1204
395	ServiceType	VARCHAR2[128]	List of product codes used to charge the charged party. Multiple product codes are separated with a colon (:). This field can be left empty.	-
396	SpecialNumberIndicator	NUMBER[10]	Special number type. The options are as follows: • **0**: common number • **1**: barred number • **2**: free number • **3**: Special-tariff number • **9**: voice mail The default value is **0**. This field cannot be left empty.	0
397	NPFlag	VARCHAR2[1]	NP flag. The options are as follows: • **0**: not NP • **1**: NP out The default value is **0**. This field cannot be left empty.	0
398	NPPrefix	VARCHAR2[6]	NP prefix. • Set this field to the NP prefix of the called party in the MO process. • Set this field to the NP prefix of the calling party in the MT process. This field is left empty if NP is not executed.	-
399	CallingCUGNo	NUMBER[20]	CUG number of the calling party. If the calling party does not join a CUG, this field is set to **0**. This field cannot be left empty.	0

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SN	Field Name	Field Type	Description	Sample Value
400	CalledCUGNo	NUMBER[20]	CUG number of the called party. If the called party does not join a CUG, this field is set to **0**. This field cannot be left empty.	0
401	OpposeNetworkType	NUMBER[10]	Peer network type. The options are as follows: • **1**: GSM • **2**: CDMA • **3**: ADSL • **4**: PSTN • **5**: WiMAX • Others: unknown This field cannot be left empty. This field is reserved.	1
402	OpposeNumberType	NUMBER[10]	Peer network type. The options are as follows: • **1**: GSM • **2**: CDMA • **3**: ADSL • **4**: PSTN • **5**: WiMAX • Others: unknown This field cannot be left empty.	1
403	CallingNetworkType	VARCHAR2[10]	Access network type of the calling party. • **1**: GSM • **2**: CDMA • **3**: ADSL • **4**: PSTN • **5**: WiMAX • Others: unknown This field can be left empty.	1
404	CalledNetworkType	VARCHAR2[10]	Access network type of the called party. • **1**: GSM • **2**: CDMA • **3**: ADSL • **4**: PSTN • **5**: WiMAX	1

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SN	Field Name	Field Type	Description	Sample Value
			• Others: unknown This field cannot be left empty.	
405	CallingVPNTopGroupNumber	VARCHAR2[64]	Number of the top-level corporation to which the sender belongs. This field is valid only in the MO process where the sender is a corporate member. This field is empty when no corporation information exists. This field can be left empty.	-
406	CallingVPNGroupNumber	VARCHAR2[64]	Number of the corporation to which the sender belongs. This field is valid only in the MO process where the sender is a corporate member. This field is empty when no corporation information exists. This field can be left empty.	-
407	CallingVPNShortNumber	VARCHAR2[10]	Short number of the sender. This field is valid only in the MO process where the sender is a corporate member. This field can be left empty.	-
408	CalledVPNTopGroupNumber	VARCHAR2[64]	Number of the top-level corporation to which the recipient belongs. This field is valid only in the MT process where the recipient is a corporate member. This field is empty when no corporation information exists. This field can be left empty.	-
409	CalledVPNGroupNumber	VARCHAR2[64]	Number of the corporation to which the recipient belongs. This field is valid only in the MT process where the recipient is a corporate member. This field is empty when no corporation information exists. This field can be left empty.	-
410	CalledVPNShortNumber	VARCHAR2[10]	Short number of the recipient. This field is valid only in the MT	-

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SN	Field Name	Field Type	Description	Sample Value
			process where the recipient is a corporate member. This field can be left empty.	
411	GroupCallType	VARCHAR2[10]	Corporate call type. This field is valid only when the charged party is a corporate subscriber. The options are as follows: • **0**: non-corporate call • **1**: corporate intra-network call • **2**: corporate inter-network call The default value is **0**. This field cannot be left empty.	0
412	OnlineChargingFlag	VARCHAR2[1]	Online charging flag. The options are as follows: • **0**: online charging • **1**: offline charging This field cannot be left empty.	1
413	StartTimeOfBillCycle	VARCHAR2[14]	Start time of the bill cycle for which fees are deducted. Format: YYYYMMDDhhmmss This field cannot be left empty.	20141204120000
414	LastEffectOffering	NUMBER[20]	ID of the last offering or global pricing plan that takes effect. The default value is **0**. This field cannot be left empty.	970333853
415	DTDiscount	NUMBER[10]	DT discount rate. The default value is **0**. The unit is permyriad. For example, the value 8550 indicates 85.50%. This field can be left empty.	0
416	OpposeMainOfferingID	NUMBER[20]	Primary offering ID of the peer party's number. The default value is **0**. This field cannot be left empty.	0
417	HomeZoneID	NUMBER[10]	Home zone ID. When a subscriber enjoys the home zone discount, the value of this field is the home zone ID of the area where the subscriber currently locates.	0

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SN	Field Name	Field Type	Description	Sample Value
			The default value is **0**. This field cannot be left empty.	
418	SpecialZoneID	NUMBER[10]	Special zone ID. When a subscriber enjoys the special zone discount, the value of this field is the special zone ID of the area where the subscriber currently locates. The default value is **0**. This field cannot be left empty.	0
419	MainBalanceInfo	VARCHAR2[255]	This field is reserved.	-
420	ChgBalanceInfo	VARCHAR2[255]	This field is reserved.	-
421	ChgFreeUnitInfo	VARCHAR2[255]	This field is reserved.	-
422	UserState	VARCHAR2[10]	This field is reserved.	-
423	GroupPayFlag	NUMBER[10]	This field is reserved.	0
424	RoamingZoneID	VARCHAR2[20]	Roaming zone ID. This field can be left empty.	-
425	PrimaryOfferChgAmt	NUMBER[20]	Primary offering rating amount. The value of this field is only for reference and cannot be used for audit. The default value is **0**. This field cannot be left empty.	0
426	Reserved	NUMBER[20]	Reserved.	-
427	RECEPIENT_CP_ID	VARCHAR2[5]	Customer partition ID corresponding to the customer to which the peer number belongs. This field can be left empty.	-

4.2.2.3 Extended Charging Service Information in an MMS CDR

This topic describes extended fields in the charging service information in an MMS CDR.

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CDR Instance

- Main fund deduction for MMS: cbs_cdr_mms_20160921_751_101_000277.add

```
701000000000000277|0|N|N|201609211320|0|0|701000000000000277|A|0|20160921131806
|20160921132331|20160921132331|20160921212331|20160921212331|11004|D|S|10000000
0000001105|100000000000001104|100000000000001107|861361010002|20160901|3|25|lxx
;1474463870;0000059747;0000000001|0|1|101|0|10000|861360010001|1101|1|1|3|0|0|0
|0|1000000|0|1000000|1000000|0|0|0|0|0|0|0|100000000000001107|70100000000000008
3|2000|880500000|1000000|1049|0||||||||||||||||||||||||||||||||||||||||||||||||
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|||||||||861361010002|861360010001|||00861360010001|1|8625||8625||2016092113180
6|0|20160921132331|0|20160921211801||1024|0|1822667956|122666807|1361010002|1|0
|0|0|0|86|25|1|86|25|1|86|25|1|86|25|1||0|0||0|0|1|1|1|||||||0|0|20160831160000
|122666807|1|1|1|1|1|1|0|0|||||0||1000000|0||
```

- International roaming MMS: cbs_cdr_mms_20160921_751_101_000283.add

```
701000000000000280|0|N|N|201609211340|0|0|701000000000000280|A|0|20160921133701
|20160921134225|20160921134225|20160921214225|20160921214225|11004|D|S|10000000
0000001105|100000000000001104|100000000000001107|861361010002|20160901|3|29|lxx
;1474465003;0000059747;0000000001|0|1|101|0|10000|861360010001|1101|1|1|3|0|0|0
|0|31000000|0|31000000|31000000|0|0|0|0|0|0|0|100000000000001107|70100000000000
0083|2000|848500000|31000000|1049|0||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
|||||||||||||861361010002|861360010001|||00861360010001|1|218133||8625||2016092
1133701|0|20160921134225|0|20160921213655||1024|0|1822667956|122666807|13610100
02|1|0|0|2|3|86|25|1|218|32|3|86|25|1|86|25|1||0|0||0|0|1|1|1|||||||0|0|2016083
1160000|122666807|1|1|1|1|1|1|0|0|||||0||31000000|0||
```

- Fee unit deduction for MMS: cbs_cdr_mms_20160921_751_101_000281.add

```
701000000000000279|0|N|N|201609211320|0|0|701000000000000279|A|0|20160921132117
|20160921132642|20160921132642|20160921212642|20160921212642|11004|D|S|10000000
0000001105|100000000000001104|100000000000001107|861361010002|20160901|3|25|lxx
;1474464060;0000059747;0000000001|0|1|101|0|10000|861360010001|1101|1|1|3|0|0|0
|0|0|0|0|0|0|0|0|0|1|0|0||||||||||||||||||||||||||||||||||||||||||||||||||||||||
|||||||||||||||||S|100000000000001105|701000000000000066|1006|1|1|1101|0||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||861361010002|861360010
001|||00861360010001|1|8625||8625||20160921132117|0|20160921132642|0|2016092121
2112||1024|0|1822667956|122666807|1361010002|N|0|0|0|0|86|25|1|86|25|1|86|25|1|
86|25|1||0|0||0|0|1|1|1|||||||0|0|20160831160000|122666807|1|1|1|1|1|1|0|0|||||
0||1000000|0||
```

- MMS special number: cbs_cdr_mms_20160922_751_101_000275.add

```
701000000000000230|0|N|N|201609221220|0|0|701000000000000230|A|0|20160922121444
|20160922122012|20160922122012|20160922202012|20160922202012|11004|D|S|10000000
0000001133|100000000000001132|100000000000001135|861361010011|20160901|3|25|lxx
;1474546483;0000059747;0000000001|0|1|101|0|10000|8610031|1101|1|1|3|0|0|0|0|50
0000000|0|500000000|500000000|0|0|0|0|0|0|0|100000000000001135|7010000000000000
90|2000|500000000|500000000|1049|0||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```


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```
||||||
```

SN	Field Name	Field Type	Description	Sample Value
			format. This field can be left empty.	
357	ServiceFlow	VARCHAR2 [1]	MMS process type. The options are as follows: • **1**: MO • **2**: MT • **3**: MF (reserved) • **4**: read-reply report • **5**: delivery report • **6**: reply report This field cannot be left empty.	1
358	CallingRoamInfo	VARCHAR2 [20]	Roaming information about the sender. This field is used to analyze the calling party's roaming status and can be set to the value of fields such as **LocationNumber**, **MSCAddress**, or **VLRNumber**. For the calling number, it is recorded in the international number format by default. For other information, the reported one is recorded directly. This field can be left empty.	8625
359	CallingCellID	VARCHAR2 [20]	Cell ID of the sender. The value is reported in IDP messages. If the OCS does not need to analyze the visited area based on the cell ID, this field can be left empty. The format is Three-digit MCC + Two-digit MNC + Five-digit LAC + Five-digit cell ID, for example, **460002230320412**.	-
360	CalledRoamInfo	VARCHAR2 [20]	Roaming information about the recipient. This field is used to analyze the called party's roaming status and can be set to the value of fields such as **LocationNumber**, **MSCAddress**, or **VLRNumber**. This field can be left empty.	8625

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SN	Field Name	Field Type	Description	Sample Value
361	CalledCellID	VARCHAR2[20]	Cell ID of the recipient. If the OCS does not need to analyze the visited area based on the cell ID, this field can be left empty. The format is Three-digit MCC + Two-digit MNC + Five-digit LAC + Five-digit cell ID, for example, **460002230320412**.	-
362	TimeStampOfSSP	VARCHAR2[14]	Timestamp reported by the SSP. Format: YYYYMMDDhhmmss This field can be left empty.	20141201033640
363	TimeZoneOfSSP	NUMBER[10]	Time zone where the SSP locates. This field can be left empty. If this field is left empty, the time zone in the MSC is the same as that of the home server.	0
364	ChargingTime	VARCHAR2[14]	UTC time when a service charging starts. Format: YYYYMMDDhhmmss This field cannot be left empty.	20141201165023
365	SendResult	NUMBER[10]	MMS message sending result. The options are as follows: • **0**: successful • Others: Enter the value transferred from the interface, for example, SMPP+ interface. The default value is **0**. This field cannot be left empty.	0
366	MMSID	VARCHAR2[35]	MMS message ID or sequence number, which uniquely identifies a fee deduction request. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	20141201113633
367	IMEI	VARCHAR2[24]	International mobile equipment identity. This field can be left empty.	-
368	MMSLength	NUMBER[10]	MMS message size reported by external systems. If MMS messages are charged	1024

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SN	Field Name	Field Type	Description	Sample Value
			based on their sizes, this field cannot be left empty. The default value is **0**. This field cannot be left empty.	
369	RefundIndicator	VARCHAR2[20]	Fee deduction flag. The options are as follows: • **0**: fee deduction • **1**: refund This field cannot be left empty.	0
370	BrandID	NUMBER[20]	Brand ID. The default value is **0**. This field cannot be left empty.	1003
371	MainOfferingID	NUMBER[20]	Primary offering ID. The default value is **0**. This field cannot be left empty.	1077
372	ChargingPartyNumber	VARCHAR2[64]	Charged number. The number formats are as follows: • Fixed-line number: Area code + PSTN • Mobile number: MSISDN This field cannot be left empty.	134077000165
373	ChargePartyIndicator	VARCHAR2[1]	Payer. The options are as follows: • **1**: charged party only • **2**: reserved • **3**: third party only • **4**: both charged party and third party • **N**: no fee deduction This field cannot be left empty.	1
374	PayType	VARCHAR2[1]	Payment type of a subscriber. The options are as follows: • **0**: prepaid • **1**: postpaid • **2**: hybrid This field cannot be left empty.	0
375	ChargingType	VARCHAR2[1]	Charging type. The options are as follows: • **0**: V-H	0

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SN	Field Name	Field Type	Description	Sample Value
			• **1**: H-H • **2**: V-V • **3**: H-V **NOTE** In the option descriptions, V indicates the visited area and H indicates the home area. For example, value **0** indicates that the visited location of the calling party and the home location of the called party are used for number analysis. This field cannot be left empty.	
376	OnNetIndicator	VARCHAR2[1]	Analyzed MMS message type according to the network. The options are as follows: • **0**: intra-network • **1**: inter-network • **2**: unknown (This value is used for internatinal toll MMS service or unrecognizable network type (inter-network or intra-network).) This field cannot be left empty.	0
377	RoamState	VARCHAR2[1]	Roaming status of the charged party. The options are as follows: • **0**: non-roaming • **1**: roaming within a charging area • **2**: roaming out of a charging area • **3**: international roaming This field cannot be left empty.	0
378	CallingHomeCountryCode	NUMBER[10]	Home country code of the MMS message sender. Generally, the 378th to 389th fields cannot be left empty. This field can be left empty in scenarios where the process of charging the calling or called party is irrelevant to the home area or visited area of the peer end. In these scenarios, the network side may not report the visited area or number information about the peer end.	86
379	CallingHome	NUMBER[10	Home area code of the MMS	25

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SN	Field Name	Field Type	Description	Sample Value
	AreaNumber	]	message sender. This field can be left empty.	
380	CallingHome NetworkCode	NUMBER[10]	Home network code of the MMS message sender. This field can be left empty.	1
381	CallingRoam CountryCode	NUMBER[10]	Roaming country code of the MMS message sender. This field can be left empty.	86
382	CallingRoam AreaNumber	NUMBER[10]	Roaming area code of the MMS message sender.	25
383	CallingRoam NetworkCode	NUMBER[10]	Roaming network code of the MMS message sender. This field can be left empty.	1
384	CalledHome CountryCode	NUMBER[10]	Home country code of the MMS message recipient. This field can be left empty.	86
385	CalledHome AreaNumber	NUMBER[10]	Home area code of the MMS message recipient. This field can be left empty.	25
386	CalledHome NetworkCode	NUMBER[10]	Home network code of the MMS message recipient. This field can be left empty.	1
387	CalledRoamCountryCode	NUMBER[10]	Roaming country code of the MMS message recipient. This field can be left empty.	86
388	CalledRoam AreaNumber	NUMBER[10]	Roaming area code of the MMS message recipient. This field can be left empty.	25
389	CalledRoam NetworkCode	NUMBER[10]	Roaming network code of the MMS message recipient. This field can be left empty.	1
390	ServiceType	VARCHAR2[128]	List of product codes used to charge the charged party. Multiple product codes are separated with a colon (:). This field can be left empty.	-
391	SpecialNumberIndicator	NUMBER[10]	Special number type. The options are as follows: • **0**: common number	0

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SN	Field Name	Field Type	Description	Sample Value
			• **1**: barred number • **2**: free number • **3**: Special-tariff number • **9**: voice mail The default value is **0**. This field cannot be left empty.	
392	NPFlag	VARCHAR2[1]	NP flag. The options are as follows: • **0**: not NP • **1**: NP out The default value is **0**. This field cannot be left empty.	0
393	NPPrefix	VARCHAR2[6]	NP prefix. This field is set to the recipient's NP prefix for the MMS message sender and the sender's NP prefix for the MMS message recipient. This field is left empty if NP is not executed.	-
394	CallingCUGNo	NUMBER[20]	CUG ID of the MMS message sender. The default value is **0**. This field cannot be left empty.	0
395	CalledCUGNo	NUMBER[20]	CUG ID of the MMS message recipient. The default value is **0**. This field cannot be left empty.	0
396	OpposeNumberType	NUMBER[10]	Peer network type. The options are as follows: • **1**: GSM • **2**: CDMA • **3**: ADSL • **4**: PSTN • **5**: WiMAX • Others: unknown This field cannot be left empty.	1
397	CallingNetworkType	VARCHAR2[10]	Access network type of the calling party. • **1**: GSM • **2**: CDMA	1

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SN	Field Name	Field Type	Description	Sample Value
			• **3**: ADSL • **4**: PSTN • **5**: WiMAX • Others: unknown This field cannot be left empty.	
398	CalledNetworkType	VARCHAR2 [10]	Access network type of the MMS message recipient. The options are as follows: • **1**: GSM • **2**: CDMA • **3**: ADSL • **4**: PSTN • **5**: WiMAX • Others: unknown This field cannot be left empty.	1
399	CallingVPNTopGroupNumber	VARCHAR2 [64]	Number of the top-level corporation to which the sender belongs. This field is valid only in the MO process where the sender is a corporate member. This field is empty when no corporation information exists. This field can be left empty.	-
400	CallingVPNGroupNumber	VARCHAR2 [64]	Number of the corporation to which the sender belongs. This field is valid only in the MO process where the sender is a corporate member. This field is empty when no corporation information exists. This field can be left empty.	-
401	CallingVPNShortNumber	VARCHAR2 [10]	Short number of the sender. This field is valid only in the MO process where the sender is a corporate member. This field can be left empty.	-
402	CalledVPNTopGroupNumber	VARCHAR2 [64]	Number of the top-level corporation to which the recipient belongs. This field is valid only in the MT process where the recipient is a	-

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SN	Field Name	Field Type	Description	Sample Value
			corporate member. This field is empty when no corporation information exists. This field can be left empty.	
403	CalledVPNGroupNumber	VARCHAR2 [64]	Number of the corporation to which the recipient belongs. This field is valid only in the MT process where the recipient is a corporate member. This field is empty when no corporation information exists. This field can be left empty.	-
404	CalledVPNShortNumber	VARCHAR2 [10]	Short number of the recipient. This field is valid only in the MT process where the recipient is a corporate member. This field can be left empty.	-
405	GroupCallType	VARCHAR2 [10]	Corporate call type. This field is valid only when the charged party is a corporate subscriber. The options are as follows: • **0**: non-corporate call • **1**: corporate intra-network call • **2**: corporate inter-network call The default value is **0**. This field cannot be left empty.	0
406	OnlineChargingFlag	VARCHAR2 [1]	Online charging flag. The options are as follows: • **0**: online charging • **1**: offline charging This field cannot be left empty.	0
407	StartTimeOfBillCycle	VARCHAR2 [14]	Start time of the bill cycle for which fees are deducted. Format: YYYYMMDDhhmmss This field cannot be left empty.	20141201000000
408	LastEffectOffering	NUMBER[20]	ID of the last offering or global pricing plan that takes effect. The default value is **0**. This field cannot be left empty.	1077

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SN	Field Name	Field Type	Description	Sample Value
409	OriginAddressType	NUMBER[10]	Original sender address type. • **0**: email address • **1**: MSISDN • **2**: IPv4 address • **3**: IPv6 address • **4**: digital short code • **5**: alphabetical and digital short code • **6**: others The value is reported by external systems. This field cannot be left empty.	1
410	DestAddressType	NUMBER[10]	Destination address type. • **0**: email address • **1**: MSISDN • **2**: IPv4 address • **3**: IPv6 address • **4**: digital short code • **5**: alphabetical and digital short code • **6**: others The value is reported by external systems. This field cannot be left empty.	1
411	Message-Type	NUMBER[10]	MMS message type. • **1**: m-send-req • **2**: m-send-conf • **3**: m-notification-ind • **4**: m-notifyresp-ind • **5**: m-retrieve-conf • **6**: m-acknowledge-ind • **7**: m-delivery-ind • **8**: m-read-rec-ind • **9**: m-read-orig-ind • **10**: m-forward-req • **11**: m-forward-conf • **12**: m-mbox-store-conf • **13**: m-mbox-view-conf • **14**: m-mbox-upl	1

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SN	Field Name	Field Type	Description	Sample Value
			• **101**: MOAT • **102**: AOMT • **103**: MOMT • **104**: MOET • **105**: EOMT • **106**: DlvRpt • **107**: RdRpt • **108**: Reply • **109**: reserved The value is reported by the network side. If no value is reported, this field is left empty or set to 0. This field can be left empty.	
412	VASP-Id	VARCHAR2 [20]	Service provider ID. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	1
413	VAS-Id	VARCHAR2 [20]	Service ID. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	1
414	Service-Id	VARCHAR2 [20]	Value-added service ID. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	1
415	DTDiscount	NUMBER[10]	DT discount rate. The default value is **0**. The unit is permyriad. For example, the value 8550 indicates 85.50%. This field can be left empty.	0
416	OpposeMainOfferingID	NUMBER[20]	Primary offering ID of the peer party's number. The default value is **0**. This field cannot be left empty.	0
417	MainBalanceInfo	VARCHAR2 [255]	This field is reserved.	-

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SN	Field Name	Field Type	Description	Sample Value
418	ChgBalanceInfo	VARCHAR2[255]	This field is reserved.	-
419	ChgFreeUnitInfo	VARCHAR2[255]	This field is reserved.	-
420	UserState	VARCHAR2[10]	This field is reserved.	-
421	GroupPayFlag	NUMBER[10]	This field is reserved.	0
422	RoamingZoneID	VARCHAR2[20]	Roaming zone ID. This field can be left empty.	-
423	PrimaryOfferChgAmt	NUMBER[20]	Primary offering rating amount. The value of this field is only for reference and cannot be used for audit. The default value is **0**. This field cannot be left empty.	0
424	Reserved	NUMBER[20]	Reserved.	-
425	RECEPIENT_CP_ID	VARCHAR2[5]	Customer partition ID corresponding to the customer to which the peer number belongs. This field can be left empty.	-

4.2.2.4 Extended Charging Service Information in a GPRS CDR

This topic describes extended fields in the charging service information in a GPRS CDR.

CDR Instance

- Local GPRS using multiple free units: cbs_cdr_data_20160922_751_101_000295.add

```
701000000000000249|0|N|N|201609221320|0|0|701000000000000249|A|0|20160922132050
|20160922132147|20160922132617|20160922212147|20160922212617|11006|D|S|10000000
0000001105|100000000000001104|100000000000001107|861361010004|20160901|5|31|1xx
;1474550448;0000059747;0000000001|0|1|101|0|10000||1106|6144|6144|2|0|0|0|0|0|0
|0|0|0|0|0|0|0|0|6144||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||S|100000000000001105|701000000000000043|1392037216|0|4096|1106|0|S
|100000000000001105|701000000000000042|551951301|0|1024|1106|0|S|10000000000000
1105|701000000000000044|523420240|0|1024|1106|0||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||861361010004|internet|||010.137.000.000||862511100111681|86251
1100111681|20160922132617|0||20160922132147|6144|0|0|0||1|1||1||300||||||164647
```


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```
2247|746471591|1361010004|0|1|0|86|25|1|86|25|1||1|||0|20160831160000|746471591
|0|100|0|0|0||||1000000|0|0|N||60000000|0|
```

- Local GPRS using main funds: cbs_cdr_data_20160922_751_101_000293.add

```
701000000000000248|0|N|N|201609221310|0|0|701000000000000248|A|0|20160922131739
|20160922131835|20160922132305|20160922211835|20160922212305|11006|D|S|10000000
0000001105|100000000000001104|100000000000001107|861361010004|20160901|5|31|lxx
;1474550257;0000059747;0000000001|0|1|101|0|10000||1106|6144|6144|2|0|0|0|0|600
00000|0|60000000|60000000|0|0|0|0|0|0|0|100000000000001107|701000000000000083|2
000|833000000|60000000|1049|0||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
|||||||861361010004|internet|||010.137.000.000||862511100111681|862511100111681
|20160922132305|0||20160922131835|6144|0|0|0||1|1||1||300||||||1646472247|74647
1591|1361010004|0|1|0|86|25|1|86|25|1||1|||0|20160831160000|746471591|0|100|0|0
|0||||1000000|0|0|1||60000000|0|
```

- Local GPRS using bonuses and main funds: cbs_cdr_data_20160922_751_101_000291.add

```
701000000000000247|0|N|N|201609221310|0|0|701000000000000247|A|0|20160922131609
|20160922131706|20160922132136|20160922211706|20160922212136|11006|D|S|10000000
0000001105|100000000000001104|100000000000001107|861361010004|20160901|5|31|lxx
;1474550168;0000059747;0000000001|0|1|101|0|10000||1106|6144|6144|2|0|0|0|0|300
00000|0|30000000|30000000|0|0|0|0|0|0|3072|100000000000001107|701000000000000008
3|2000|893000000|30000000|1049|0||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||S|100000000000001105|701000000000000043|1392037216|0|1024|1106
|0|S|100000000000001105|701000000000000042|551951301|0|1024|1106|0|S|1000000000
00001105|701000000000000044|523420240|0|1024|1106|0||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
|||||||||||||||||||||861361010004|internet|||010.137.000.000||862511100111681|8
62511100111681|20160922132136|0||20160922131706|6144|0|0|0||1|1||1||300||||||16
46472247|746471591|1361010004|0|1|0|86|25|1|86|25|1||1|||0|20160831160000|74647
1591|0|100|0|0|0||||1000000|0|0|1||60000000|0|
```

- Roaming GPRS using main funds: cbs_cdr_data_20160922_751_101_000299.add

```
701000000000000251|0|N|N|201609221340|0|0|701000000000000251|A|0|20160922134047
|20160922134142|20160922134612|20160922214142|20160922214612|11006|D|S|10000000
0000001105|100000000000001104|100000000000001107|861361010004|20160901|5|33|lxx
;1474551645;0000059747;0000000001|0|1|101|0|10000||1106|6144|6144|2|0|0|0|0|180
000000|0|180000000|180000000|0|0|0|0|0|0|0|100000000000001107|701000000000000008
3|2000|593000000|180000000|1049|0||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||||||||||||861361010004|internet|||010.137.000.000||218511100111681|21851110011
1681|20160922134612|0||20160922134142|6144|0|0|0||1|1||1||300||||||1646472247|7
46471591|1361010004|0|1|3|86|25|1|218|32|3||1|||0|20160831160000|746471591|0|10
0|0|0|0||||1000000|0|0|1||180000000|0|
```

- GPRS CDR splitting by traffic, where SplitCdrVolume is set to 2048bytes and USU is set to 6144bytes, involving two Update messages: cbs_cdr_data_20160924_751_101_000062.add

```
701000000000000283|0|N|V|201609231630|0|0|701000000000000283|A|0|20160923163429
|20160923163510|20160923163940|20160924003510|20160924003940|11006|D|S|10000000
0000002109|100000000000002108|100000000000002111|861361010006|20160901|5|31|lxx
```


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```
;1474602244;0000059747;0000000001|0|1|101|0|10000||1106|6144|6144|2|0|0|0|0|600
00000|0|60000000|60000000|0|0|0|0|0|0|0|100000000000002111|701000000000000106|2
000|99760000000|60000000|1049|0||||||||||||||||||||||||||||||||||||||||||||||||
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|||||||||861361010006|internet|||010.137.000.000||862511100111681|8625111001116
81|20160923163940|0||20160923163510|6144|0|0|0||1|1||1||300||||||1822667956|122
666807|1361010006|0|1|0|86|25|1|86|25|1||1|||0|20160831160000|122666807|0|100|0
|0|0||||1000000|0|0|1||60000000|0|
701000000000000284|1|N|V|201609231630|0|0|701000000000000283|A|0|20160923163430
|20160923163940|20160923163940|20160924003940|20160924003940|11006|D|S|10000000
0000002109|100000000000002108|100000000000002111|861361010006|20160901|5|31|lxx
;1474602244;0000059747;0000000001|0|1|101|0|10000||1106|6144|6144|2|0|0|0|0|600
00000|0|60000000|60000000|0|0|0|0|0|0|0|100000000000002111|701000000000000106|2
000|99700000000|60000000|1049|0||||||||||||||||||||||||||||||||||||||||||||||||
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|||||||||861361010006|internet|||010.137.000.000||862511100111681|8625111001116
81|20160923163940|0||20160923163940|6144|0|0|0||1|1||1||300||||||1822667956|122
666807|1361010006|0|1|0|86|25|1|86|25|1||1|||0|20160831160000|122666807|0|100|0
|0|0||||1000000|0|0|1||60000000|0|
701000000000000285|2|N|V|201609231630|0|0|701000000000000283|A|0|20160923163432
|20160923163940|20160923163940|20160924003940|20160924003940|11006|D|S|10000000
0000002109|100000000000002108|100000000000002111|861361010006|20160901|5|31|lxx
;1474602244;0000059747;0000000001|0|1|101|0|10000||1106|6144|6144|2|0|0|0|0|600
00000|0|60000000|60000000|0|0|0|0|0|0|0|100000000000002111|701000000000000106|2
000|99640000000|60000000|1049|0||||||||||||||||||||||||||||||||||||||||||||||||
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|||||||||861361010006|internet|||010.137.000.000||862511100111681|8625111001116
81|20160923163940|0||20160923163940|6144|0|0|0||1|1||1||300||||||1822667956|122
666807|1361010006|0|1|0|86|25|1|86|25|1||1|||0|20160831160000|122666807|0|100|0
|0|0||||1000000|0|0|1||60000000|0|
```

- GPRS CDR splitting by duration, traffic-based charging: cbs_cdr_data_20160923_751_101_000109.add

```
701000000000000352|0|N|L|201609230630|0|0|701000000000000352|A|0|20160923063503
|20160923063552|20160923064052|20160923143552|20160923144052|11006|D|S|10000000
0000002109|100000000000002108|100000000000002111|861361010006|20160901|5|31|lxx
;1474612523;0000059747;0000000001|0|1|101|0|10000||1106|12288|12288|2|0|0|0|0|1
20000000|0|120000000|120000000|0|0|0|0|0|0|0|100000000000002111|701000000000000
106|2000|98020000000|120000000|1049|0||||||||||||||||||||||||||||||||||||||||||
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|||||||||||||||861361010006|internet|||010.137.000.000||862511100111681|8625111
00111681|20160923064612|0||20160923063552|12288|0|0|240||1|1||1||300||||||18226
67956|122666807|1361010006|0|1|0|86|25|1|86|25|1||1|||0|20160831160000|12266680
7|0|100|0|0|0||||1000000|0|0|1||120000000|0|
701000000000000353|1|N|L|201609230630|0|0|701000000000000352|A|0|20160923063504
|20160923064052|20160923064552|20160923144052|20160923144552|11006|D|S|10000000
0000002109|100000000000002108|100000000000002111|861361010006|20160901|5|31|lxx
;1474612523;0000059747;0000000001|0|1|101|0|10000||1106|6144|6144|2|0|0|0|0|600
```


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```
00000|0|60000000|60000000|0|0|0|0|0|0|0|100000000000002111|701000000000000106|2
000|97960000000|60000000|1049|0||||||||||||||||||||||||||||||||||||||||||||||||||
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|||||||||861361010006|internet|||010.137.000.000||862511100111681|8625111001116
81|20160923065012|0||20160923064052|6144|0|0|240||1|1||1||300||||||1822667956|1
22666807|1361010006|0|1|0|86|25|1|86|25|1||1|||0|20160831160000|122666807|0|100
|0|0|0||||1000000|0|0|1||60000000|0|
```

- GPRS CDR splitting by duration, duration-based charging: cbs_cdr_data_20160923_751_101_000108.add

```
701000000000000349|0|N|L|201609230630|0|0|701000000000000349|A|0|20160923062911
|20160923063000|20160923063500|20160923143000|20160923143500|11006|D|S|10000000
0000002109|100000000000002108|100000000000002111|861361010006|20160901|5|31|lxx
;1474612169;0000059747;0000000001|0|1|101|0|10000||1003|240|240|1|0|0|0|0|40000
000|0|40000000|40000000|0|0|0|0|0|0|0|100000000000002111|701000000000000106|200
0|98220000000|40000000|1049|0||||||||||||||||||||||||||||||||||||||||||||||||||
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|||||||861361010006|internet|||010.137.000.000||862511100111681|862511100111681
|20160923064020|0||20160923063000|12288|0|0|240||1|1||1||300||||||1822667956|12
2666807|1361010006|0|0|0|86|25|1|86|25|1||1|||0|20160831160000|122666807|0|100|
0|0|0||||1000000|0|0|1||40000000|0|
701000000000000350|1|N|L|201609230630|0|0|701000000000000349|A|0|20160923062912
|20160923063500|20160923064000|20160923143500|20160923144000|11006|D|S|10000000
0000002109|100000000000002108|100000000000002111|861361010006|20160901|5|31|lxx
;1474612169;0000059747;0000000001|0|1|101|0|10000||1003|240|240|1|0|0|0|0|40000
000|0|40000000|40000000|0|0|0|0|0|0|0|100000000000002111|701000000000000106|200
0|98180000000|40000000|1049|0||||||||||||||||||||||||||||||||||||||||||||||||||
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|||||||861361010006|internet|||010.137.000.000||862511100111681|862511100111681
|20160923064420|0||20160923063500|6144|0|0|240||1|1||1||300||||||1822667956|122
666807|1361010006|0|0|0|86|25|1|86|25|1||1|||0|20160831160000|122666807|0|100|0
|0|0||||1000000|0|0|1||40000000|0|
701000000000000351|2|N|L|201609230630|0|0|701000000000000349|A|0|20160923062913
|20160923064000|20160923064420|20160923144000|20160923144420|11006|D|S|10000000
0000002109|100000000000002108|100000000000002111|861361010006|20160901|5|31|lxx
;1474612169;0000059747;0000000001|0|1|101|0|10000||1003|240|240|1|0|0|0|0|40000
000|0|40000000|40000000|0|0|0|0|0|0|0|100000000000002111|701000000000000106|200
0|98140000000|40000000|1049|0||||||||||||||||||||||||||||||||||||||||||||||||||
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|||||||861361010006|internet|||010.137.000.000||862511100111681|862511100111681
|20160923064420|0||20160923064000|0|0|0|240||1|1||1||300||||||1822667956|122666
807|1361010006|0|0|0|86|25|1|86|25|1||1|||0|20160831160000|122666807|0|100|0|0|
0||||1000000|0|0|1||40000000|0|
```

- GPRS CDR splitting by day. The interval between Update message sending time and 00:00 of the next day is shorter than the period specified by Valid Time:
  - cbs_cdr_data_20160922_751_101_000101.add

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```
701000000000000322|0|N|D|201609221550|0|0|701000000000000322|A|0|201609221
55832|20160922155922|20160922160000|20160922235922|20160923000000|11006|D|
S|100000000000002109|100000000000002108|100000000000002111|861361010006|20
160901|5|31|lxx;1474559909;0000059747;0000000001|0|1|101|0|10000||1106|614
4|6144|2|0|0|0|0|60000000|0|60000000|60000000|0|0|0|0|0|0|0|10000000000000
2111|701000000000000106|2000|99400000000|60000000|1049|0|||||||||||||||||
||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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SN	Field Name	Field Type	Description	Sample Value
			This field cannot be left empty.	
353	APN	VARCHAR2 [22]	Access point. The value is reported by the network side. If no value is reported, this field is left empty. If charging is implemented based on the access point, this field cannot be left empty.	internet
354	URL	VARCHAR2 [22]	Visited URL. The value is reported by the network side. If no value is reported, this field is left empty.	-
355	CallingPartyIMSI	VARCHAR2 [64]	International mobile subscriber identity (IMSI) of the calling party. This field can be left empty. The value is reported by the network side. If no value is reported, this field is left empty.	-
356	AccessNetworkAddress	VARCHAR2 [22]	Address for accessing the network. • For the GPRS service, set this parameter to the SGSN address. • For the WLAN service, set this field to the hotspot ID. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	127.206.174.000
357	GGSNAddress	VARCHAR2 [22]	GGSN address. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	-
358	CallingRoamInfo	VARCHAR2 [20]	Roaming information about the calling party. This field is used to analyze the calling party's roaming status. The field depends on the information reported by the network and can be set to the value of fields such as **MSCAddress** or **IPAddress**. The value depends on the control	86133

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SN	Field Name	Field Type	Description	Sample Value
			parameter specifying the roaming analysis method. This field can be left empty.	
359	CallingCellID	VARCHAR2[32]	Cell ID of the calling party. If the OCS does not need to analyze the visited area based on the cell ID, this field can be left empty. 2G/3G format: Three-digit mobile country code (MCC) + Two-digit mobile network code (MNC) + Five-digit location area code (LAC) + Five-digit cell ID, for example, **460002230320412**. 4G format: Fifteen-digit global unique tracking area identity (TAI) + Fifteen-digit E-UTRAN cell global identifier (ECGI), for example, 740010000060166740010051211533. • The TAI format is Three-digit MCC + Two-digit MNC + Ten-digit tracking area code (TAC) • The ECGI format is Three-digit MCC + Two-digit MNC + Ten-digit E-UTRAN cell identifier (ECI)	-
360	TimeStampOfSGSN	VARCHAR2[14]	Service start time reported by the SGSN or an external NE. Format: YYYYMMDDhhmmss This field can be left empty.	20141201114625
361	TimeZoneOfSGSN	NUMBER[10]	Time zone where the SGSN or an external NE locates. • Empty: default time zone • Non-empty: reported time zone This field can be left empty.	0
362	BearerCapability	VARCHAR2[32]	Bearer capability. This field is left empty. This field is reserved.	-
363	ChargingTime	VARCHAR2[14]	UTC time when a service charging starts.	20141201114625

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SN	Field Name	Field Type	Description	Sample Value
			Format: YYYYMMDDhhmmss This field can be left empty.	
364	TotalFlux	NUMBER[20]	Total traffic, in bytes. The default value is **0**. This field cannot be left empty.	2048
365	UpFlux	NUMBER[20]	Upstream traffic, in bytes. The default value is **0**. This field cannot be left empty.	0
366	DownFlux	NUMBER[20]	Downstream traffic, in bytes. The default value is **0**. This field cannot be left empty.	0
367	ElapseDuration	NUMBER[10]	Service duration, in seconds. The default value is **0**. This field cannot be left empty.	300
368	IMEI	VARCHAR2[24]	International mobile equipment identity. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	-
369	ServiceID	VARCHAR2[20]	Service ID. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	1
370	SPID	VARCHAR2[20]	SP ID. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	1
371	CategoryID	VARCHAR2[20]	Category ID. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	-
372	ContentID	VARCHAR2[20]	Content ID. The value is reported by the network side. If no value is reported, this field is left empty.	1

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SN	Field Name	Field Type	Description	Sample Value
			This field can be left empty.	
373	QoS	VARCHAR2[31]	Service quality. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	qos1
374	BearerProtocolType	NUMBER[10]	Protocol type used by an SP to provide bearer services. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	1
375	StartTime	VARCHAR2[14]	Data connection start time. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	-
376	StopTime	VARCHAR2[14]	Data connection end time. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	-
377	ChargingID	VARCHAR2[20]	Charging ID. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	-
378	TransitionID	VARCHAR2[32]	Transition ID. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	-
379	ServiceLevel	NUMBER[10]	Service level. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	1
380	BrandID	NUMBER[20]	Brand ID. The default value is **0**. This field cannot be left empty.	170334111

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SN	Field Name	Field Type	Description	Sample Value
381	MainOfferingID	NUMBER[20]	Primary offering ID. The default value is **0**. This field cannot be left empty.	970333853
382	ChargingPartyNumber	VARCHAR2[64]	Charged number. The number formats are as follows: • Fixed-line number: Area code + PSTN • Mobile number: MSISDN • URI format This field cannot be left empty.	138000000005
383	PayType	VARCHAR2[1]	Payment type of a subscriber. The options are as follows: • **0**: prepaid • **1**: postpaid • **2**: hybrid This field cannot be left empty.	0
384	ChargingType	VARCHAR2[1]	Charging type. The options are as follows: • **0**: by duration • **1**: by traffic This field cannot be left empty.	1
385	RoamState	VARCHAR2[1]	Roaming status of the charged party. The options are as follows: • **0**: non-roaming • **1**: roaming within a charging area • **2**: roaming out of a charging area • **3**: international roaming The default value is **0**. This field cannot be left empty.	0
386	CallingHomeCountryCode	NUMBER[10]	Home country code of the calling party. The default value is **0**. This field can be left empty.	86
387	CallingHomeAreaNumber	NUMBER[10]	Home area code of the calling party. The default value is **0**.	25

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SN	Field Name	Field Type	Description	Sample Value
			This field can be left empty.	
388	CallingHomeNetworkCode	NUMBER[10]	Home network code of the calling party. The default value is **0**. This field can be left empty.	1
389	CallingRoamCountryCode	NUMBER[10]	Roam-in country code of the calling party. The default value is **0**. This field can be left empty.	86
390	CallingRoamAreaNumber	NUMBER[10]	Roam-in area code of the calling party. The default value is **0**. This field can be left empty.	25
391	CallingRoamNetworkCode	NUMBER[10]	Roam-in network code of the calling party. The default value is **0**. This field can be left empty.	1
392	ServiceType	VARCHAR2[128]	List of product codes used to charge the charged party. Multiple product codes are separated with a colon (:). This field can be left empty.	-
393	CallingNetworkType	VARCHAR2[10]	Local network type. The options are as follows: • **1**: GSM • **2**: CDMA • **3**: ADSL • **4**: PSTN • **5**: WiMAX • Others: unknown This field can be left empty.	1
394	CallingVPNTopGroupNumber	VARCHAR2[64]	Number of the top-level corporation to which the calling party belongs. This field is empty when no corporation information exists. This field can be left empty.	-
395	CallingVPNGroupNumber	VARCHAR2[64]	Number of the corporation to which the calling party belongs. This field is empty when no	-

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SN	Field Name	Field Type	Description	Sample Value
			corporation information exists. This field can be left empty.	
396	OnlineChargingFlag	VARCHAR2[1]	Online charging flag. The options are as follows: • **0**: online charging • **1**: offline charging This field cannot be left empty.	1
397	StartTimeOfBillCycle	VARCHAR2[14]	Start time of the bill cycle for which fees are deducted. Format: YYYYMMDDhhmmss This field cannot be left empty.	20141201000000
398	LastEffectOffering	NUMBER[20]	ID of the last offering or global pricing plan that takes effect. The default value is **0**. This field cannot be left empty.	970333853
399	DTDiscount	NUMBER[10]	DT discount rate. The default value is **0**. The unit is permyriad. For example, the value 8550 indicates 85.50%. This field can be left empty.	0
400	RatingGroup	NUMBER[10]	Rating group ID. This field is set to **0** if there is only one MSCC and is set to the actual rating group ID if there are multiple MSCCs. This field cannot be left empty.	100
401	HomeZoneID	NUMBER[10]	Indicates the home zone ID. When a subscriber enjoys the home zone discount, the value of this field is the home zone ID of the area where the subscriber currently locates. The default value is **0**. This field cannot be left empty.	0
402	SpecialZoneID	NUMBER[10]	Indicates the special zone ID. When a subscriber enjoys the special zone discount, the value of this field is the special zone ID of the area where the subscriber currently locates. The default value is **0**.	0

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SN	Field Name	Field Type	Description	Sample Value
			This field cannot be left empty.	
403	DataZoneID	NUMBER[10]	Indicates the data zone ID. When a subscriber enjoys the data zone discount, the value of this field is the data zone ID of the area where the subscriber currently locates. The default value is **0**. This field cannot be left empty.	0
404	MainBalanceInfo	VARCHAR2[255]	This field is reserved.	-
405	ChgBalanceInfo	VARCHAR2[255]	This field is reserved.	-
406	ChgFreeUnitInfo	VARCHAR2[255]	This field is reserved.	-
407	UserState	VARCHAR2[10]	This field is reserved.	-
408	GroupPayFlag	NUMBER[10]	This field is reserved.	0
409	RATType	Number[10]	RAT type. This field can be left empty.	0
410	ChargePartyIndicator	VARCHAR2[1]	Payer. The options are as follows: • **1**: charged party only • **2**: reserved • **3**: third party only • **4**: both charged party and third party • **N**: no fee deduction This field cannot be left empty.	1
411	RoamingZoneID	VARCHAR2[20]	Roaming zone ID. This field can be left empty.	-
412	PrimaryOfferChgAmt	NUMBER[20]	Primary offering rating amount. The value of this field is only for reference and cannot be used for audit. The default value is **0**. This field cannot be left empty.	0
413	Reserved	NUMBER[20]	Reserved.	-

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4.2.2.5 Extended Charging Service Information in a Recurring Charging CDR

This topic describes extended fields in the charging service information in a recurring charging CDR.

CDR Instance

Example of a recurring charging CDR file name:
cbs_cdr_mon_20141112_751_101_192571.add

701000000000004316|0|N|N|201412170000|0|0|0|A|0|20141217170005|20141217000000|20141217000000|20141217000000|20141217000000|20141217000000|14001|S|S|100000000000001353|100000000000001352|100000000000001354|44136200006321|20141204|7|4||0||101|0|10000||0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0||||||

SN	Field Name	Field Type	Description	Sample Value
			follows: • Fixed-line number: Area code + PSTN • Mobile number: MSISDN • URI format When **ChargingPartyType** is set to **1** or **2**, this field can be left empty.	
356	ChargingPartyType	VARCHAR2[1]	Type of the charged party. The options are as follows: • **0**: subscriber • **1**: customer • **2**: subscriber group This field cannot be left empty.	0
357	CycleBeginTime	VARCHAR2[14]	Cycle start time of a rental product. Cycle start time of the rebate policy recorded in the installment rebate CDR. Format: YYYYMMDDHHMMSS This field cannot be left empty.	20141217000000
358	CycleEndTime	VARCHAR2[14]	Cycle end time of a rental product. Cycle end time of the rebate policy recorded in the installment rebate CDR. Format: YYYYMMDDHHMMSS This field cannot be left empty.	20150117000000
359	CycleType	NUMBER[10]	Recurring charging cycle type. Cycle type of the rebate policy recorded in the installment rebate CDR. • **1**: bill cycle • **2**: days • **3**: weeks • **4**: months • **5**: natural months • **6**: years • **7**: hours The options can be customized. This field cannot be left empty.	4

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SN	Field Name	Field Type	Description	Sample Value
360	CycleLength	NUMBER[10]	Cycle length. The default value is **0**. This field cannot be left empty.	1
361	ElapseCycles	NUMBER[10]	Sequence number of a cycle. The value can be the sequence number of a cycle in which the rental fails to be collected. The default value is **0**. This field cannot be left empty.	18
362	InnerCycleBeginTime	VARCHAR2[14]	Start time of a subcycle. The value may be different from that of the **CycleBeginTime** field if rentals are prorated upon subscription or the recurring charges are collected by day. Cycle start time of the rebate policy recorded in the installment rebate CDR. For example, if a subscriber subscribes to a monthly offering on October 15, the cycle ranges from 00:00 on October 1 to 23:59 on October 31, and the subcycle start time is the subscription time on October 15. Format: YYYYMMDDhhmmss This field cannot be left empty.	20141217000000
363	InnerCycleEndTime	VARCHAR2[14]	End time of a subcycle. The value may be different from that of the **CycleEndTime** field if rentals are prorated upon unsubscription or the recurring charges are collected by day. Cycle end time of the rebate policy recorded in the installment rebate CDR. Format: YYYYMMDDhhmmss This field cannot be left empty.	20141218000000
364	ProductID	VARCHAR2[20]	ID of a product or product package corresponding to a rental or package. This field is reserved.	0
365	OfferingID	NUMBER[20]	Key of the offering to which a rental product belongs. The default value is **0**.	1452452907

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SN	Field Name	Field Type	Description	Sample Value
			This field cannot be left empty.	
366	OfferingInstID	NUMBER[20]	Subscription key of the offering to which a rental product belongs. The default value is **0**. This field cannot be left empty.	487
367	OrderStatus	VARCHAR2[1]	Status of a subscription relationship. The options are as follows: • **0**: normal • **1**: suspended • **2**: initial • **3**: expired This field can be left empty.	0
368	ProrateFlag	VARCHAR2[1]	Indicates whether to prorate the rental. The options are as follows: • **0**: no • **1**: yes This field is reserved.	1
369	StartTimeOfBillCycle	VARCHAR2[14]	Start time of a bill cycle. This field cannot be left empty.	20141201080000
370	ChargePartyIndicator	VARCHAR2[1]	Payer. The options are as follows: • **1**: charged party only • **2**: reserved • **3**: third party only • **4**: both charged party and third party • **N**: no fee deduction This field cannot be left empty.	N
371	PosRentMode	VARCHAR2[1]	Rental deduction mode for postpaid subscribers. The options are as follows: • A: The rental is collected at the beginning of a bill cycle. • P: The rental is collected at the end of a bill cycle. This field can be left empty.	A
372	TriggerMode	VARCHAR2[1]	Trigger mode. • **0**: recurring rental collection • **1**: rental collection upon offering subscription	0

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SN	Field Name	Field Type	Description	Sample Value
			• **2**: rental collection upon offering unsubscription • **3**: rental re-deduction upon recharge, transfer, or adjustment • **4**: advance triggering of the real-time charging process (For example, there are five million subscribers at a site and a subscriber triggers real-time charging requests at 00:00 when the subscriber makes a call or goes online. If the recurring charge collection task has not been executed for the subscriber in this scenario, real-time rental collection is triggered to ensure that the recurring charge is collected in a timely manner.) • **5**: rental collection triggered by WebService requests sent from third-party systems (This option is available only to specific sites.) • **6**: rental collection triggered by advance rental collection task (This option is available only to specific sites.) • **7**: real-time rental collection triggered by recharge, transfer, or adjustment • **8**: rental collection triggered by first time activation • **9**: rental modification • **A**: rental collection triggered by the first time use of a service • **B**: hot billing • **C**: offering activation • **D**: subscriber status change This field cannot be left empty.	
373	ExecuteFlag	VARCHAR2 [1]	Indicates whether a rental is collected at the beginning or end of a cycle. The options are as follows: • **1**: At the beginning of a cycle	1

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SN	Field Name	Field Type	Description	Sample Value
			• **2**: At the end of a cycle	
374	ProductCode	VARCHAR2 [64]	This field is reserved.	-
375	MainBalance Info	VARCHAR2 [255]	This field is reserved.	-
376	ChgBalanceI nfo	VARCHAR2 [255]	This field is reserved.	-
377	ChgFreeUnit Info	VARCHAR2 [255]	This field is reserved.	-
378	UserState	VARCHAR2 [10]	This field is reserved.	-
379	CallingVPN TopGroupNu mber	VARCHAR2 [64]	This field is reserved.	-
380	CallingVPN GroupNumbe r	VARCHAR2 [64]	This field is reserved.	-
381	GroupPayFla g	NUMBER[1 0]	This field is reserved.	0

4.2.2.6 Extended Charging Service Information in a Management Flow CDR

This topic describes extended fields in the charging service information in a management flow CDR.

CDR Instance

Example of a management flow CDR file name:
cbs_cdr_cm_20141105_751_101_173427.add

701000000000004246|0|N|N|201412160640|0|0|0|A|0|20141216064730|20141216064730|20141216064730|20141216064730|20141216064730|1309|M|S|100020000000012544|100020000000012543|100020000000012545|44136191002202|20150101|4|||0||101|0|10002||1006|0|0|5|0|0|0|0|1|0|0|0|1|0|1|0|0|0|0||||||

Table 4-10 Management CDR

SN	Field Name	Field Type	Description	Sample Value
352	CallingParty Number	VARCHAR 2[64]	Calling number. The number formats are as follows: • Fixed-line number: Country code + Area code + PSTN • Mobile number: Country code + MSISDN • URI format This field cannot be left empty.	44136191002 202
353	OperationID	NUMBER[1 0]	Operation ID. The values are defined by the BM. For example, value **4057010** indicates the operation of changing offerings for subscribers. The options can be customized based on site requirements. This field can be left empty.	0
354	OperationTy pe	NUMBER[1 0]	Operation type. The options are as follows for the FN and Home Zone management services: • **1**: add • **2**: modify • **3**: delete • **0**: unspecified The options can be customized based on operation IDs. This field can be left empty.	0
355	BrandID	NUMBER[2 0]	Brand ID. The default value is **0**. This field cannot be left empty.	1003
356	MainOfferin gID	NUMBER[2 0]	Primary offering ID. The default value is **0**. This field cannot be left empty.	524092510
357	PayType	VARCHAR 2[4]	Payment type of a subscriber. The options are as follows: • **0**: prepaid • **1**: postpaid	2

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SN	Field Name	Field Type	Description	Sample Value
			• **2**: hybrid This field cannot be left empty.	
358	StartTimeOf BillCycle	VARCHAR 2[14]	Start time of a bill cycle. Format: YYYYMMDDhhmmss This field cannot be left empty.	20141204120 000
359	Reserve	VARCHAR 2[20]	This field is reserved. This field can be left empty.	-
360	Merchant	VARCHAR 2[20]	This field is reserved. This field can be left empty.	-
361	Service	VARCHAR 2[20]	This field is reserved. This field can be left empty.	-
362	MainBalance Info	VARCHAR 2[255]	This field is reserved.	-
363	ChgBalanceI nfo	VARCHAR 2[255]	This field is reserved.	-
364	ChgFreeUnit Info	VARCHAR 2[255]	This field is reserved.	-
365	UserState	VARCHAR 2[10]	This field is reserved.	-
366	OldUserState	VARCHAR 2[10]	This field is reserved.	-
367	ValidDayAd ded	NUMBER[1 0]	This field is reserved.	0
368	Oper_ID	NUMBER[2 0]	This field is reserved.	0
369	SPID	VARCHAR 2[20]	This field is reserved.	-
370	ServiceID	VARCHAR 2[20]	This field is reserved.	-
371	ServiceType	NUMBER[1 0]	This field is reserved.	0
372	ContentID	VARCHAR 2[20]	This field is reserved.	-
373	url	VARCHAR 2[23]	This field is reserved.	-
374	TransactionI D	VARCHAR 2[32]	This field is reserved.	-

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SN	Field Name	Field Type	Description	Sample Value
375	OldMainOfferingID	NUMBER[10]	This field is reserved.	0
376	AdditionalInfo	VARCHAR2[256]	Service additional infomation. Records service additional information and redundant information. In most scenarios, the information is useful for specified carriers. This field can be left empty.	-
377	NewOfferingID	NUMBER[10]	This field is reserved.	0
378	ExpireTimeofNewOffering	VARCHAR2[14]	This field is reserved.	-
379	ChargePartyIndicator	VARCHAR2[1]	Payer. The options are as follows: • **1**: charged party only • **2**: reserved • **3**: third party only • **4**: both charged party and third party • **N**: no fee deduction This field cannot be left empty.	1
380	AccessMethod	NUMBER[10]	This field is reserved.	0

4.2.2.7 Extended Charging Service Information in the Content-based Charging Process

This topic describes extended fields in the charging service information in the content-based charging process.

CDR Instance

Example of a content-based charging CDR file name:
cbs_cdr_com_20141104_751_101_188625.add

701000000000001409|0|N|N|201412011240|0|0|0|A|0|20141201044635|20141201124654|20141201124654|20141201124654|20141201124654|12001|D|S|100000000000005318|100000000000005317|100000000000005320|86136100003135|20141201|6|5|hhh;1417409192;0000059747;0000000001|0|1|101|0|10000||1003|240|240|1|0|0|0|0|400000|0|0|0|400000|0|400000|0|0|0|0||||||

C_OOTB_Service_CPB_01||||0|0|0|||||||||170334111|370336175|136100003135|1|||0|201412010
00000|1474463550|0|||||0|1|||0||0|0|0|0|0|0|||||||||||0|

Extended charging service information

Table 4-11 describes extended fields in the charging service information in the content-based charging process.

Table 4-11 Content CDR

SN	Field Name	Field Type	Description	Sample Value
352	CallingParty Number	VARCHAR2 [64]	Calling number. The number formats are as follows: • Fixed-line number: Country code + Area code + PSTN • Mobile number: Country code + MSISDN • URI format This field cannot be left empty.	86136100003 135
353	CallingPartyI MSI	VARCHAR2 [64]	IMSI of the calling party. The value is reported by the network side. If no value is reported, this field is left empty. This field can be left empty.	-
354	ChargingTyp e	VARCHAR2 [2]	Charging type. In the content-based charging process, the options of this field are as follows: • **1**: rating by an external system • **2**: rating by the CBS In the RTBP process, this field is left empty.	2
355	ChargingUsa geType	VARCHAR2 [4]	Usage type. The options are as follows: • **0**: by times • **1**: by traffic • **2**: by duration The value is reported by external systems. If no value is reported, this field is left empty.	2
356	ChargeCode	VARCHAR2 [16]	External charge code. The value is recorded if external systems transfer this field.	-

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SN	Field Name	Field Type	Description	Sample Value
			This field is reserved.	
357	FreeIndicator	VARCHAR2 [1]	Exemption flag. This field is reserved.	-
358	SPID	VARCHAR2 [32]	SP ID. The value is reported by external systems. If no value is reported, this field is left empty.	Demo_CP_B
359	CPID	VARCHAR2 [32]	CP ID. The value is reported by external systems. If no value is reported, this field is left empty.	-
360	ServiceID	VARCHAR2 [32]	Service ID. The value is reported by external systems. If this field is used for charging, it must be reported and recorded.	C_OOTB_Service_CPB_01
361	ContentID	VARCHAR2 [32]	Content ID. The value is reported by external systems. If this field is used for charging, it must be reported and recorded.	-
362	ServiceType	VARCHAR2 [32]	Service type, for example, news or weather broadcast. The value is reported by external systems. If this field is used for charging, it must be reported and recorded.	-
363	ContentType	NUMBER[10]	Content type, for example, image, music, or movie. The value is reported by external systems. If this field is used for charging, it must be reported and recorded.	-
364	ServiceCapability	NUMBER[10]	Service capability. The options are as follows: • **0**: general • **1**: SMS • **2**: MSM • **3**: WAP • **4**: LCS • **5**: streaming • **6**: download The value is defined and reported by external systems. The OCS	0

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SN	Field Name	Field Type	Description	Sample Value
			records the value and uses it for charging. This field is reserved and has a fixed value of **0**.	
365	ProvisionType	NUMBER[10]	Content presentation type. The options are as follows: • **104**: movie series • **105**: album • **111**: RingBox • **117**: TV series This field is reserved and has a fixed value of **0**.	0
366	CategoryType	NUMBER[10]	Node type. If no value is reported, this field is set to 0.	0
367	ProductCode	VARCHAR2[32]	Product code. The value is defined and reported by external systems. The OCS records the value.	-
368	Times	NUMBER[20]	Number of use times. The value is reported by external systems. If no value is reported, this field is left empty.	-
369	Duration	NUMBER[20]	Usage duration, in seconds. The value is reported by external systems. If no value is reported, this field is left empty.	-
370	InputOctets	NUMBER[20]	Upstream traffic, in bytes. The value is reported by external systems. If no value is reported, this field is set to 0.	-
371	OutputOctets	NUMBER[20]	Downstream traffic, in bytes. The value is reported by external systems. If no value is reported, this field is set to 0.	-
372	TotalOctets	NUMBER[20]	Total traffic, in bytes. The value is reported by external systems. If no value is reported, this field is set to 0.	-
373	ServiceDeliveryStatus	NUMBER[10]	Service delivery status. This field is reserved.	-

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SN	Field Name	Field Type	Description	Sample Value
374	Remark	VARCHAR2[256]	Remarks. This field is reserved.	-
375	BrandID	NUMBER[20]	Subscriber brand ID. The default value is **0**. This field cannot be left empty.	170334111
376	MainOfferingID	NUMBER[20]	Primary offering ID. The default value is **0**. This field cannot be left empty.	370336175
377	ChargingPartyNumber	VARCHAR2[64]	Charged number. The number formats are as follows: • Fixed-line number: Area code + PSTN • Mobile number: MSISDN • URI format This field cannot be left empty.	136100003135
378	CallingNetworkType	VARCHAR2[10]	Type of the access network. The options are as follows: • **1**: GSM • **2**: CDMA • **3**: ADSL • **4**: PSTN • **5**: WiMAX • Others: unknown This field cannot be left empty.	1
379	CallingVPNTopGroupNumber	VARCHAR2[64]	Number of the top-level corporation to which the calling party belongs. This field is empty when no corporation information exists. This field can be left empty.	-
380	CallingVPNGroupNumber	VARCHAR2[64]	Number of the corporation to which the calling party belongs. This field is empty when no corporation information exists. This field can be left empty.	-
381	OnlineChargingFlag	NUMBER[10]	Online charging flag. The options are as follows: • **0**: online charging	0

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SN	Field Name	Field Type	Description	Sample Value
			• **1**: offline charging This field cannot be left empty.	
382	StartTimeOfBillCycle	VARCHAR2[14]	Start time of the bill cycle for which fees are deducted. Format: YYYYMMDDhhmmss This field cannot be left empty.	20141201000000
383	LastEffectOffering	NUMBER[20]	ID of the last offering or global pricing plan that takes effect. The default value is **0**. This field cannot be left empty.	1474463550
384	RequestAction	NUMBER[10]	Request type. The options are as follows: • **0**: fee deduction • **1**: refund This field cannot be left empty.	0
385	MainBalanceInfo	VARCHAR2[255]	This field is reserved.	-
386	ChgBalanceInfo	VARCHAR2[255]	This field is reserved.	-
387	ChgFreeUnitInfo	VARCHAR2[255]	This field is reserved.	-
388	UserState	VARCHAR2[10]	This field is reserved.	-
389	GroupPayFlag	NUMBER[10]	This field is reserved.	0
390	PayType	VARCHAR2[1]	Payment type of a subscriber. The options are as follows: • 0: prepaid • 1: postpaid • 2: hybrid	1
391	TransactionID	VARCHAR2[32]	This field is reserved.	-
392	AdditionalInfo	VARCHAR2[255]	This field is reserved.	-
393	ChargeMode	NUMBER[10]	This field is reserved.	0
394	CDRProductID	VARCHAR2[20]	This field is reserved.	-

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SN	Field Name	Field Type	Description	Sample Value
395	CDRChargeMode	NUMBER[10]	This field is reserved.	0
396	CDRTimes	NUMBER[10]	This field is reserved.	0
397	CDRDuration	NUMBER[10]	This field is reserved.	0
398	CDRVolume	NUMBER[10]	This field is reserved.	0
399	CDRCDRType	NUMBER[10]	This field is reserved.	0
400	CDRServiceType	NUMBER[10]	This field is reserved.	0
401	CDRBeginTime	VARCHAR2[14]	This field is reserved.	-
402	CDREndTime	VARCHAR2[14]	This field is reserved.	-
403	CDRPkgSpid	VARCHAR2[20]	This field is reserved.	-
404	CDRPkgServiceid	VARCHAR2[20]	This field is reserved.	-
405	CDRPkgProductid	VARCHAR2[20]	This field is reserved.	-
406	CDRSPName	VARCHAR2[20]	This field is reserved.	-
407	CDRServiceName	VARCHAR2[20]	This field is reserved.	-
408	ChargePartyIndicator	VARCHAR2[1]	Payer. The options are as follows: • **1**: charged party only • **2**: reserved • **3**: third party only • **4**: both charged party and third party • **N**: no fee deduction This field cannot be left empty.	1
409	Merchant	VARCHAR2[20]	This field is reserved.	-
410	Service	VARCHAR2[20]	This field is reserved.	-

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SN	Field Name	Field Type	Description	Sample Value
411	Reserved	VARCHAR2[20]	This field is reserved.	-

4.2.2.8 Extended Charging Service Information in a Resource Clearance CDR

This topic describes extended fields in the charging service information in a resource clearance CDR.

CDR Instance

Example of a resource clearance CDR file name:
cbs_cdr_clr_20141026_751_101_187655.add

701000000000003609|0|N|N|201412080650|0|0|0|A|0|20141208065702|20141208065700|20141208065700|20141208065700|20141208065700|13033|M|S|100000000000011421|100000000000011420|100000000000011422|86168100000177|20150101||||0||101|0|10000||0|0|0|

CDR Instance

Example of a first time activation CDR file name:
cbs_cdr_first_20141023_751_101_129979.add

701000000000003977|0|N|N|201412150740|0|0|0|A|0|20141215074342|20141215074342|20141215074342|20141215074342|20141215074342|13009|M|S|100020000000012513|100020000000012512|100020000000012515|44136110002339|20150101|8|||0||101|0|10002||0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|||||||

SN	Field Name	Field Type	Description	Sample Value
356	CurrUserStat	VARCHAR2[1]	Current subscriber status. • **1**: inactive • **2**: active • **3**: barred • **4**: suspended • **8**: pre-deregistered • **9**: deregistered Options 1 and 2 are fixed, and options 3 to 9 can be customized based on the site requirements. This field cannot be left empty.	2
357	BillCycleID	VARCHAR2[10]	Bill cycle ID. This field cannot be left empty.	20150101
358	ChgBalanceInfo	VARCHAR2[1024]	This field is reserved.	-
359	ChgFreeUnitInfo	VARCHAR2[1024]	This field is reserved.	-
360	MainBalanceInfo	VARCHAR2[255]	This field is reserved.	-
361	UserState	VARCHAR2[10]	This field is reserved.	-
362	OldUserState	VARCHAR2[10]	This field is reserved.	-
363	Oper_ID	NUMBER[20]	This field is reserved.	0
364	THIRD_PARTY_NUMBER	VARCHAR2[32]	This field is reserved.	-
365	EXT_TRANS_ID	VARCHAR2[32]	This field is reserved.	-
366	EXT_TRANS_TYPE	VARCHAR2[32]	This field is reserved.	-
367	ACCESS_METHOD	NUMBER[10]	This field is reserved.	0
368	RechargeCellID	VARCHAR2[20]	This field is reserved.	-
369	AgentName	VARCHAR2[64]	This field is reserved.	-

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SN	Field Name	Field Type	Description	Sample Value
370	AdditionalInfo	VARCHAR2[256]	This field is reserved.	-
371	SubIdentityType	NUMBER[10]	This field is reserved.	0

4.2.2.10 Extended Charging Service Information in a Penalty CDR

If the OCS deducts a penalty from a subscriber who unsubscribes from an offering, a penalty CDR is generated. This topic describes fields in the extended information in a penalty CDR.

Table 4-14 describes fields in the extended information in a penalty CDR.

Table 4-14 Extended fields in a penalty CDR

SN	Field Name	Field Type	Description
352	ChargingPartyNumber	VARCHAR2[64]	Charged number. The number formats are as follows: • Fixed-line number: Area code + PSTN • Mobile number: MSISDN • URI format This field can be left empty if **ChargingPartyType** indicates a customer, an account, or a subscriber group.
353	DelOrderOfferingInstID	NUMBER[20]	ID of the offering instance from which a subscriber unsubscribes. This field cannot be left empty. The default value is 0.
354	DelOrderOfferingID	NUMBER[20]	ID of the offering from which a subscriber unsubscribes. This field cannot be left empty. The default value is 0.
355	BrandID	NUMBER[20]	Brand ID. This field cannot be left empty. The default value is 0.
356	MainOfferingID	NUMBER[20]	Primary offering ID. This field cannot be left empty. The default value is 0.
357	PayType	VARCHAR2[4]	Payment type of a subscriber. The options are as follows:

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SN	Field Name	Field Type	Description
			• 0: prepaid • 1: postpaid • 2: hybrid This field cannot be left empty.
358	StartTimeOfBillCycle	VARCHAR2[14]	Bill cycle start time of the charged subscriber when a charging event occurs. Format: YYYYMMDDhhmmss This field cannot be left empty.
359	MainBalanceInfo	VARCHAR2[255]	This field is reserved.
360	ChgBalanceInfo	VARCHAR2[255]	This field is reserved.
361	ChgFreeUnitInfo	VARCHAR2[255]	This field is reserved.
362	UserState	Varchar2[10]	This field is reserved.
363	ChargePartyIndicator	VARCHAR2[1]	Payer. The options are as follows: • **1**: charged party only • **2**: reserved • **3**: third party only • **4**: both charged party and third party • **N**: no fee deduction This field cannot be left empty.
364	Reserve	VARCHAR2[256]	This field is reserved.
365	Reserve	VARCHAR2[20]	This field is reserved.

4.3 Prepaid Transaction CDR Files

This topic describes the CDR file template provided in the baseline version for management flow services. Each site can customize CDR files based on the template.

4.3.1 Recharge CDR

This topic describes fields in recharge CDRs.

CDR Instance

Example of a recharge CDR file name: cbs_cdr_vou_20141026_751_101_187427.add

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2510000000000000122|0|1000000|100000000000008845|100000000000008843|86136100002
212||1049|1000000|0.000000|0.000000|27155||CBSAR1782|6|0||A|0|0|1|8||0|0|30||10056|101|2
0141208070152|||0|||||F||101||0||||||0|0|0|0||||||0|||||||0|0|100000000000008845|7010000000000023
81|1042|1101000|1000000|20141201075807|20370101000000|20370101000000|1049|2||||||||||||
||||||||||||

SN	Field Name	Field Type	Description	Sample Value	Field Category
			This field cannot be left empty.		
6	PRI_IDENTITY	VARCHAR2[64]	Subscriber primary identifier. If no subscriber number is transferred in the process of recharging a specified account, this field is left empty. If a primary identifier is an MSISDN or a PSTN, the formats are as follows: • Country code + MSISDN • Country code + Area code + PSTN If a primary identifier is of other types, the value is the number that is transferred. This field can be left empty.	86136100002212	
7	THIRD_PARTY_NUMBER	VARCHAR2[32]	Subscriber who recharges another subscriber's account. This field can be left empty. This field is reserved.	-	
8	CURRENCY_ID	NUMBER[5]	Currency type ID. This field is recorded when a foreign currency is used for recharge. If this field is set to **0** or the default currency type of the home BE, the local currency is used for recharge. The default value is **0**. This field cannot be left empty.	1049	
9	ORIGINAL_AMT	NUMBER[20]	Original recharge amount when a foreign currency is used for recharge. If the local currency is used for recharge, the value is the same as that of **RECHARGE_AMT**. The default value is **0**. This field cannot be left empty.	1000000	
10	CURRENCY_RATE	NUMBER[20,6]	Exchange rate between a foreign currency and the local currency. The default value is **0**, indicating that the local currency is used for recharge. This field cannot be left empty.	0.000000	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
11	CONVERSION_AMT	NUMBER[20,6]	Recharge amount converted from a foreign currency to the local currency based on the exchange rate. The value can contain decimal places. If the local currency is used for recharge, this field is set to **0**. For example, if a subscriber recharges the account in US dollar while the local currency is pound, this field records the amount converted based on the exchange rate between dollar and pound, which is precise to penny. The default value is **0**. This field cannot be left empty.	0.000000	
12	RECHARGE_TRANS_ID	NUMBER[20]	Recharge transaction ID. This field is recorded in the recharge log. If a recharge needs to be reversed, the system queries the corresponding recharge record based on this field. The default value is **0**. This field cannot be left empty.	27155	
13	EXT_TRANS_TYPE	VARCHAR2[32]	External transaction type, which is transferred from an external interface and is the same as the value of **Business Code**. This field is left empty if it is not transferred from an external interface. This field can be left empty.	-	
14	EXT_TRANS_ID	VARCHAR2[32]	External sequence number of a transaction. This field is left empty if it is not transferred from an external interface. This field can be left empty.	CBSAR1782	
15	ACCESS_METHOD	NUMBER[10]	Recharge access mode. The options are as follows: • **0**: IVR • **1**: USSD • **2**: SMS • **3:** WebService	6	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **4**: GUI • **5**: Task (batch recharge triggered in the system) • **6**: Automatic (automatic recharge triggered in the system) • **7**: Reserved • Other values can be extended based on the site requirements. This field cannot be left empty.		
16	BATCH_NO	NUMBER[20]	Recharge batch number. The default value is **0**. This field cannot be left empty.	0	
17	OFFERING_ID	VARCHAR2[32]	Recharge offering ID. This field is reserved.	-	
18	PAYMENT_TYPE	VARCHAR2[1]	Payment type. • **A**: cash • **D**: debit card • **C**: credit card • **E**: check • **V**: voucher • **L**: e-voucher This field cannot be left empty.	A	
19	RECHARGE_TAX	NUMBER[20]	Recharge tax. If no tax needs to be collected, this field is set to **0**. This field cannot be left empty.	0	
20	RECHARGE_PENALTY	NUMBER[20]	Recharge penalty. If no penalty needs to be collected, this field is set to **0**. Reserved	0	
21	RECHARGE_TYPE	VARCHAR2[24]	Recharge type. The options are as follows: • **0**: voucher recharge • **1**: cash recharge • **2**: e-voucher recharge • **3**: recharge reversal This field cannot be left empty.	1	
22	CHANNE	VARCH	Recharge channel ID.	8	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	L_ID	AR2[8]	• **0**: IVR • **1**: USSD • **2**: SMS • **3**: WebService • **4**: GUI • **5**: task (batch recharge triggered in the system) • **6**: automatic (automatic recharge triggered in the system) • **7**: IVRSM • **9**: e-care • **10**: IPCC IVR • **11**: IPCC USSD • **12**: IPCC SMS • **99**: others Other values can be extended based on the site requirements. This field is reserved.		
23	RECHARGE_REASON	VARCHAR2[24]	Recharge reason. This field is left empty if it is not transferred from an external interface or entered on the GUI. This field can be left empty.	-	
24	RESULT_CODE	NUMBER[10]	Internal recharge result code. • **0**: The operation is successful. • Others: failure. For details, see **Background Error Codes** in the *Error Code Reference* document. This field cannot be left empty.	0	
25	ERROR_TYPE	VARCHAR2[16]	Error type. The options are as follows: • **-1**: Default error type. • **0**: The operation is successful. • **1**: The operation cannot be performed repeatedly. • **2**: No record is found. • **3**: The balance or free unit has been used and the transaction cannot be reversed. • **4**: No available resource is	0	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			found. • **5**: Invalid data. • **6**: The specified operation is not allowed. • **7**: Authentication failed. This field can be left empty.		
26	VALID_DAY_ADDED	NUMBER[10]	Number of validity days extended after a recharge. The default value is **0**. This field cannot be left empty.	30	
27	DIAMETER_SESSIONID	VARCHAR2[128]	ID of the Diameter session initiated in a recharge. If a recharge is not performed based on Diameter, this field is left empty. This field can be left empty.	-	
28	OPER_ID	NUMBER[20]	ID of the operator who performs the recharge operation. If this field is not transferred, it is set to **0** by default. This field cannot be left empty.	10056	
29	DEPT_ID	NUMBER[20]	Department ID of the operator who performs the recharge operation. If this field is not transferred, it is set to **0** by default. This field cannot be left empty.	101	
30	ENTRY_DATE	DATE[14]	Time when a recharge record is created. This field cannot be left empty.	20141208070152	
31	RECON_DATE	DATE[14]	Recharge reconciliation date. This field can be left empty. This field is reserved.	-	
32	RECON_STATUS	VARCHAR2[1]	Recharge reconciliation status. This field can be left empty. This field is reserved.	-	
33	REVERSAL_TRANS_ID	NUMBER[20]	Recharge reversal transaction ID. For a non-recharge reversal transaction, this field is set to **0**. This field cannot be left empty.	0	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
34	REVERSAL_REASON_CODE	VARCHAR2[16]	Recharge reversal reason code. For a non-recharge reversal transaction, this field is left empty.	-	
35	REVERSAL_OPER_ID	VARCHAR2[24]	ID of the operator who reverses the recharge. For a non-recharge reversal transaction, this field is left empty.	-	
36	REVERSAL_DEPT_ID	VARCHAR2[24]	Department ID of the operator who reverses the recharge. For a non-recharge reversal transaction, this field is left empty.	-	
37	REVERSAL_DATE	DATE[14]	Time when a recharge is reversed. For a non-recharge reversal transaction, this field is left empty.	-	
38	STATUS	VARCHAR2[1]	Status of a recharge record. • **F**: finish (This value is recorded in a recharge CDR.) • **R**: reversal (This value is recorded in a recharge reversal CDR.) This field cannot be left empty.	F	
39	REMARK	VARCHAR2[128]	Remarks. This field is left empty if it is not transferred from an external interface or entered on the GUI.	-	
40	BE_ID	NUMBER[10]	ID of the lowest-level home BE. The default value is **0**. This field cannot be left empty.	101	
41	BE_CODE	VARCHAR2[256]	Code of the lowest-level home BE. This field is reserved.	-	
42	REGION_ID	NUMBER[10]	ID of the home management region. The default value is **0**. This field cannot be left empty.	0	
43	REGION_CODE	VARCHAR2[256]	Code of the home management region. This field can be left empty.	-	
44	CARD_SEQUENCE	VARCHAR2[20]	Voucher serial number consisting of 17 or 20 digits.	-	The 44th

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			If a recharge is not performed by using a voucher, this field is left empty.		to 52nd fields record extended voucher information. These fields are provided in the baseline version and can be extended based on the site requirements.
45	CARD_PIN_NUMBER	VARCHAR2[20]	This field is reserved.	-	
46	CARD_BATCH_NO	VARCHAR2[20]	Voucher batch number. If a recharge is not performed by using a voucher, this field is left empty.	-	
47	CARD_STATUS	VARCHAR2[1]	Voucher status. • **0**: invalid (A voucher is invalidated after successful recharge.) • **1**: valid (A voucher is valid after a recharge is reversed upon failure.) This field is reserved.	-	
48	CARD_COS_ID	NUMBER[4]	Voucher type, which is defined in the UVC and reported through an interface. If a recharge is not performed by using a voucher, this field is set to **0**.	0	
49	CARD_SP_ID	VARCHAR2[20]	Dealer ID, which is defined in the UVC and reported through an interface. If a recharge is not performed by using a voucher, this field is set to **0**.	0	
50	CARD_AMOUNT	NUMBER[20]	Recharge amount, in the minimum currency unit. If a recharge is not performed by using a voucher, this field is set to **0**.	0	
51	CARD_VALIDITY	NUMBER[10]	Validity period extended after voucher recharge. If a recharge is not performed by using a voucher, this field is set to **0**.	0	
52	VOUCHER_ENCRYPT_NUMBER	VARCHAR2[22]	This field is reserved.	-	
53	CHECK_NO	VARCHAR2[64]	Check number.	-	The 53rd

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			This field can be left empty. This field is reserved.		to 63rd fields record bank information.
54	CHECK_DATE	DATE[14]	Check date. This field can be left empty. This field is reserved.	-	
55	CREDIT_CARD_NO	VARCHAR2[64]	This field is reserved.	-	
56	CREDIT_CARD_NAME	VARCHAR2[64]	Credit card name. This field can be left empty. This field is reserved.	-	
57	CREDIT_CARD_TYPE_ID	NUMBER[8]	Credit card type. This field can be left empty. This field is reserved.	0	
58	CC_EXPIRY_DATE	VARCHAR2[32]	Expiration date of a credit card. This field can be left empty. This field is reserved.	-	
59	CC_AUTHORIZATION_CODE	VARCHAR2[16]	This field is reserved.	-	
60	BANK_CODE	VARCHAR2[32]	Bank code. This field can be left empty. This field is reserved.	-	
61	BANK_BRANCH_CODE	VARCHAR2[32]	Branch code. This field can be left empty. This field is reserved.	-	
62	ACCT_NO	VARCHAR2[192]	Bank account code. This field can be left empty. This field is reserved.	-	
63	BANK_ACCT_NAME	VARCHAR2[192]	Bank account name. This field can be left empty. This field is reserved.	-	
64	LOAN_AMOUNT	NUMBER[20]	Paid-off loan amount. The default value is **0**. This field cannot be left empty.	0	The 64th to 65th fields recor
65	LOAN_PO	NUMB	Loan payment handling fee.	0	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	UNDATE	ER[20]	The default value is **0**. This field cannot be left empty.		d loan information.
66	ACCT_ID	NUMBER[20]	Account ID.	1000000000000008845	The 66th to 165th fields record 10 groups of balance change information. The 66th to 75th fields record the first group of balance change information. If *N* balance changes are involved in a recharge, the
67	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	7010000000000002381	
68	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	1042	
69	CUR_BALANCE	NUMBER[20]	Current balance.	1101000	
70	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	1000000	
71	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	20141201075807	
72	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	20370101000000	
73	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	20370101000000	
74	CURRENCYE_ID	NUMBER[10]	Currency type ID.	1049	
75	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	2	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					first *N* groups of balance change fields are recorded and other groups of fields are left empty.
76	ACCT_ID	NUMBER[20]	Account ID.	-	The 66th to 165th fields record 10 groups of balance change information. The 76th to 85th fields record the second group of balance
77	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
78	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
79	CUR_BALANCE	NUMBER[20]	Current balance.	-	
80	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
81	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
82	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
83	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
84	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
85	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows:	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.		change information. If *N* balance changes are involved in a recharge, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
86	ACCT_ID	NUMBER[20]	Account ID.	-	The 66th to 165th fields record 10 groups of balance chan
87	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
88	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
89	CUR_BALANCE	NUMBER[20]	Current balance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
90	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	ge information. The 86th to 95th fields record the third group of balance change information. If *N* balance changes are involved in a recharge, the first *N* groups of balance change fields are recorded and other groups of fields are
91	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
92	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
93	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
94	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
95	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					left empty.
96	ACCT_ID	NUMBER[20]	Account ID.	-	The 66th to 165th fields record 10 groups of balance change information. The 96th to 105th fields record the fourth group of balance change information. If *N* balance changes are involved in a recharge, the first
97	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
98	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
99	CUR_BALANCE	NUMBER[20]	Current balance.	-	
100	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
101	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
102	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
103	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
104	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
105	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					N groups of balance change fields are recorded and other groups of fields are left empty.
106	ACCT_ID	NUMBER[20]	Account ID.	-	The 66th to 165th fields record 10 groups of balance change information. The 106th to 115th fields record the fifth group of balance change
107	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
108	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
109	CUR_BALANCE	NUMBER[20]	Current balance.	-	
110	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
111	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
112	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
113	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
114	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
115	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.		information. If *N* balance changes are involved in a recharge, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
116	ACCT_ID	NUMBER[20]	Account ID.	-	The 66th to 165th fields record 10 groups of balance change information
117	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
118	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
119	CUR_BALANCE	NUMBER[20]	Current balance.	-	
120	CHG_BAL	NUMB	Change amount of the balance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	ANCE	ER[20]			mation. The 116th to 125th fields record the sixth group of balance change information. If *N* balance changes are involved in a recharge, the first *N* groups of balance change fields are recorded and other groups of fields are left empt
121	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
122	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
123	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
124	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
125	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					y.
126	ACCT_ID	NUMBER[20]	Account ID.	-	The 66th to 165th fields record 10 groups of balance change information. The 126th to 135th fields record the seventh group of balance change information. If *N* balance changes are involved in a recharge, the first *N* group
127	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
128	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
129	CUR_BALANCE	NUMBER[20]	Current balance.	-	
130	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
131	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
132	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
133	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
134	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
135	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					s of balance change fields are recorded and other groups of fields are left empty.
136	ACCT_ID	NUMBER[20]	Account ID.	-	The 66th to 165th fields record 10 groups of balance change information. The 136th to 145th fields record the eighth group of balance change infor
137	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
138	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
139	CUR_BALANCE	NUMBER[20]	Current balance.	-	
140	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
141	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
142	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
143	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
144	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
145	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.		mation. If *N* balance changes are involved in a recharge, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
146	ACCT_ID	NUMBER[20]	Account ID.	-	The 66th to 165th fields record 10 groups of balance change information
147	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
148	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
149	CUR_BALANCE	NUMBER[20]	Current balance.	-	
150	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
151	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	n. The 146th to 155th fields record the ninth group of balance change information. If *N* balance changes are involved in a recharge, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
152	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
153	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
154	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
155	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
156	ACCT_ID	NUMBER[20]	Account ID.	-	The 66th to 165th fields record 10 groups of balance change information. The 156th to 165th fields record the tenth group of balance change information. If *N* balance changes are involved in a recharge, the first *N* groups of balance
157	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
158	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
159	CUR_BALANCE	NUMBER[20]	Current balance.	-	
160	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
161	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
162	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
163	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
164	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
165	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					change fields are recorded and other groups of fields are left empty.
166	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 166th to 275th fields record 10 groups of free unit change information. The 166th to 176th fields record the first group of free unit change information. If *N* free
167	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
168	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
169	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
170	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
171	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
172	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
173	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
174	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
175	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
176	OPER_TY	NUMB	Operation type. The options are as	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	PE	ER[10]	follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.		unit changes are involved in a recharge, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
177	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 166th to 275th fields record 10 groups of free unit change information. The 177th
178	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
179	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
180	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
181	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
182	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	to 187th fields record the second group of free unit change information. If *N* free unit changes are involved in a recharge, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
183	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
184	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
185	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
186	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
187	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	
188	FU_OWN_	VARCH	Free unit owner type. The options	-	The

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	TYPE	AR2[1]	are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer		166th to 275th fields record 10 groups of free unit change information. The 188th to 198th fields record the third group of free unit change information. If *N* free unit changes are involved in a recharge, the first *N* groups of free unit chan
189	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
190	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
191	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
192	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
193	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
194	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
195	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
196	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
197	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
198	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					ge fields are recorded and other groups of fields are left empty.
199	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 166th to 275th fields record 10 groups of free unit change information. The 199th to 209th fields record the fourth group of free unit change information. If *N* free
200	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
201	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
202	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
203	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
204	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
205	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
206	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
207	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
208	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
209	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows:	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.		unit changes are involved in a recharge, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
210	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 166th to 275th fields record 10 groups of free unit change information. The 210th
211	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
212	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
213	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
214	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
215	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	to 220th fields record the fifth group of free unit change information. If *N* free unit changes are involved in a recharge, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
216	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
217	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
218	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
219	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
220	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	
221	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows:	-	The 166th

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **S**: subscriber • **G**: subscriber group • **C**: customer		to 275th fields record 10 groups of free unit change information. The 221st to 231st fields record the sixth group of free unit change information. If *N* free unit changes are involved in a recharge, the first *N* groups of free unit change
222	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
223	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
224	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
225	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
226	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
227	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
228	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
229	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
230	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
231	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					fields are recorded and other groups of fields are left empty.
232	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 166th to 275th fields record 10 groups of free unit change information. The 232nd to 242nd fields record the seventh group of free unit change information. If *N* free
233	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
234	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
235	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
236	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
237	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
238	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
239	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
240	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
241	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
242	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows:	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.		unit changes are involved in a recharge, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
243	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 166th to 275th fields record 10 groups of free unit change information. The 243rd
244	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
245	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
246	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
247	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
248	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	to 253rd fields record the eighth group of free unit change information. If *N* free unit changes are involved in a recharge, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
249	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
250	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
251	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
252	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
253	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	
254	FU_OWN_	VARCH	Free unit owner type. The options	-	The

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	TYPE	AR2[1]	are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer		166th to 275th fields record 10 groups of free unit change information. The 254th to 264th fields record the ninth group of free unit change information. If *N* free unit changes are involved in a recharge, the first *N* groups of free unit chan
255	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
256	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
257	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
258	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
259	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
260	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
261	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
262	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
263	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
264	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					ge fields are recorded and other groups of fields are left empty.
265	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 166th to 275th fields record 10 groups of free unit change information. The 265th to 275th fields record the tenth group of free unit change information. If *N* free unit
266	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
267	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
268	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
269	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
270	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
271	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
272	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
273	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
274	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
275	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows:	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.		changes are involved in a recharge, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
276	ACCT_ID	NUMBER[20]	Account ID.	-	The 276th to 375th fields record 10 groups of bonus details. The 276th to 285th fields record the
277	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
278	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
279	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
280	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
281	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
282	PRE_EXPI	DATE[1	Original expiration time of the	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	RE_TIME	4]	account book.		first group of bonus details. If *N* bonuses are involved in a recharge, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
283	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
284	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
285	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	
286	ACCT_ID	NUMBER[20]	Account ID.	-	The 276th to 375th fields record 10 groups of bonus detail
287	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
288	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
289	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
290	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	s. The 286th to 295th fields record the second group of bonus details. If *N* bonuses are involved in a recharge, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
291	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
292	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
293	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
294	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
295	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	
296	ACCT_ID	NUMBER[20]	Account ID.	-	The 276th

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SN	Field Name	Field Type	Description	Sample Value	Field Category
297	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	to 375th fields record 10 groups of bonus details. The 296th to 305th fields record the third group of bonus details. If *N* bonuses are involved in a recharge, the first *N* groups of bonus details fields are recorded and other groups of
298	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
299	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
300	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
301	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
302	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
303	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
304	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
305	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					fields are left empty.
306	ACCT_ID	NUMBER[20]	Account ID.	-	The 276th to 375th fields record 10 groups of bonus details. The 306th to 315th fields record the fourth group of bonus details. If *N* bonuses are involved in a recharge, the first *N* groups of bonus detail
307	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
308	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
309	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
310	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
311	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
312	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
313	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
314	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
315	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					s fields are recorded and other groups of fields are left empty.
316	ACCT_ID	NUMBER[20]	Account ID.	-	The 276th to 375th fields record 10 groups of bonus details. The 316th to 325th fields record the fifth group of bonus details. If *N* bonuses are involved in a recharge,
317	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
318	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
319	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
320	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
321	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
322	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
323	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
324	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
325	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
326	ACCT_ID	NUMBER[20]	Account ID.	-	The 276th to 375th fields record 10 groups of bonus details. The 326th to 335th fields record the sixth group of bonus details. If *N*
327	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
328	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
329	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
330	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
331	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
332	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
333	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
334	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
335	OPER_TY	NUMB	Operation type. The options are as	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	PE	ER[10]	follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.		bonuses are involved in a recharge, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
336	ACCT_ID	NUMBER[20]	Account ID.	-	The 276th to 375th fields record 10 groups of bonus details. The 336th to 345th fields record the
337	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
338	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
339	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
340	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
341	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
342	PRE_EXPI	DATE[1	Original expiration time of the	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	RE_TIME	4]	account book.		seventh group of bonus details. If *N* bonuses are involved in a recharge, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
343	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
344	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
345	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	
346	ACCT_ID	NUMBER[20]	Account ID.	-	The 276th to 375th fields record 10 groups of bonus
347	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
348	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
349	BONUS_A	NUMB	Bonus amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	MOUNT	ER[20]			details. The 346th to 355th fields record the eighth group of bonus details. If *N* bonuses are involved in a recharge, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
350	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
351	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
352	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
353	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
354	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
355	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	
356	ACCT_ID	NUMBER[20]	Account ID.	-	The 276th

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SN	Field Name	Field Type	Description	Sample Value	Field Category
357	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	to 375th fields record 10 groups of bonus details. The 356th to 365th fields record the ninth group of bonus details. If *N* bonuses are involved in a recharge, the first *N* groups of bonus details fields are recorded and other groups of
358	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
359	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
360	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
361	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
362	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
363	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
364	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
365	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					fields are left empty.
366	ACCT_ID	NUMBER[20]	Account ID.	-	The 276th to 375th fields record 10 groups of bonus details. The 366th to 375th fields record the tenth group of bonus details. If *N* bonuses are involved in a recharge, the first *N* groups of bonus details
367	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
368	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
369	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
370	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
371	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
372	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
373	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
374	CURRENCY_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
375	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					fields are recorded and other groups of fields are left empty.
376	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 376th to 485th fields record 10 groups of free unit reward details. The 376th to 386th fields record the first group of free unit reward details. If *N* free unit rewards are
377	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
378	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
379	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
380	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
381	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
382	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
383	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
384	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
385	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
386	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.		involved in a recharge, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
387	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 376th to 485th fields record 10 groups of free unit reward details. The 387th to 397th fields
388	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
389	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
390	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
391	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
392	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
393	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	record the second group of free unit reward details. If *N* free unit rewards are involved in a recharge, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
394	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
395	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
396	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
397	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	
398	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber	-	The 376th to

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **G**: subscriber group • **C**: customer		485th fields record 10 groups of free unit reward details. The 398th to 408th fields record the third group of free unit reward details. If *N* free unit rewards are involved in a recharge, the first *N* groups of free unit reward details fields
399	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
400	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
401	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
402	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
403	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
404	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
405	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
406	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
407	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
408	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					are recorded and other groups of fields are left empty.
409	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 376th to 485th fields record 10 groups of free unit reward details. The 409th to 419th fields record the fourth group of free unit reward details. If *N* free unit rewards are
410	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
411	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
412	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
413	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
414	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
415	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
416	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
417	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
418	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
419	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.		involved in a recharge, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
420	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 376th to 485th fields record 10 groups of free unit reward details. The 420th to 430th fields
421	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
422	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
423	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
424	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
425	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
426	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	record the fifth group of free unit reward details. If *N* free unit rewards are involved in a recharge, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
427	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
428	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
429	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
430	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	
431	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber	-	The 376th to

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **G**: subscriber group • **C**: customer		485th fields record 10 groups of free unit reward details. The 431st to 441st fields record the sixth group of free unit reward details. If *N* free unit rewards are involved in a recharge, the first *N* groups of free unit reward details fields
432	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
433	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
434	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
435	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
436	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
437	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
438	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
439	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
440	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
441	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					are recorded and other groups of fields are left empty.
442	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 376th to 485th fields record 10 groups of free unit reward details. The 442nd to 452nd fields record the seventh group of free unit reward details. If *N* free unit rewards
443	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
444	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
445	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
446	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
447	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
448	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
449	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
450	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
451	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
452	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.		are involved in a recharge, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
453	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 376th to 485th fields record 10 groups of free unit reward details. The 453rd to 463rd
454	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
455	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
456	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
457	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
458	CURRENT_AMOUN	NUMBER[20]	Current free unit amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	T				fields record the eighth group of free unit reward details. If *N* free unit rewards are involved in a recharge, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
459	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
460	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
461	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
462	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
463	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	
464	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows:	-	The 376th

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **S**: subscriber • **G**: subscriber group • **C**: customer		to 485th fields record 10 groups of free unit reward details. The 464th to 474th fields record the ninth group of free unit reward details. If *N* free unit rewards are involved in a recharge, the first *N* groups of free unit reward details
465	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
466	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
467	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
468	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
469	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
470	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
471	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
472	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
473	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
474	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					fields are recorded and other groups of fields are left empty.
475	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 376th to 485th fields record 10 groups of free unit reward details. The 475th to 485th fields record the tenth group of free unit reward details. If *N* free unit rewards are
476	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
477	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
478	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
479	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
480	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
481	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
482	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
483	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
484	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
485	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.		involved in a recharge, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
486	RechargeAreaCode	VARCHAR2[10]	Code of the area where a recharge request is initiated. If this field is not transferred through an interface, value **0** is used, indicating an unknown area. The default value is **0**.	0	The 486th to 505th fields record additional recharge information. These fields are provided
487	RechargeCellID	VARCHAR2[20]	Visited cell ID of the subscriber who initiates a recharge request. This field can be left empty.	-	
488	BrandID	NUMBER[10]	Subscriber brand ID. In the process of recharging a specified account, this field can be left empty.	170334111	
489	MainOfferingID	NUMBER[10]	Primary offering ID. In the process of recharging a specified account, this field can be left empty.	970333853	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
490	PayType	VARCHAR2[1]	Payment type of a subscriber. The options are as follows: • **0**: prepaid • **1**: postpaid • **2**: hybrid In the process of recharging a specified account, this field can be left empty.	0	in the baseline version and can be extended based on the site requirements.
491	StartTimeOfBillCycle	VARCHAR2[14]	Bill cycle start time, in the format *YYYYMMDDHHMMSS*.	-	
492	Account	VARCHAR2[256]	This field is reserved.	-	
493	MainBalanceInfo	VARCHAR2[255]	This field is reserved.	-	
494	ChgBalanceInfo	VARCHAR2[1024]	This field is reserved.	-	
495	ChgFreeUnitInfo	VARCHAR2[1024]	This field is reserved.	-	
496	UserState	VARCHAR2[10]	This field is reserved.	-	
497	OldUserState	VARCHAR2[10]	This field is reserved.	-	
498	CardValueAdded	NUMBER[20]	This field is reserved.	0	
499	ValidityAdded	NUMBER[10]	This field is reserved.	0	
500	TradeType	NUMBER[10]	This field is reserved.	0	
501	AgentName	VARCHAR2[64]	This field is reserved.	-	
502	AdditionalInfo	VARCHAR2[256]	This field is reserved.	-	
503	BankCode	VARCHAR2[20]	This field is reserved.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
504	SubIdentity Type	NUMBER[10]	This field is reserved.	0	

4.3.2 Transfer CDR

This topic describes fields in transfer CDRs.

CDR Instance

Example of a transfer CDR file name: cbs_cdr_transfer_20141115_751_101_172969.add

251000000000001414|1|100000000000008651|100000000000008649|100000000000008650|44136110000003|0|||0|0|701000000000002871|100010000000012166|0|1|10000|20141215060703|34545|CreateSubscriber||3||200|0||||F|20141215060703||101|101|101|101|101|101|100000000000008651|701000000000002871|1043|9525297|10000|20141211002655|20201231092720|20201231092720|1049|0||||||

SN	Field Name	Field Type	Description	Sample Value	Field Category
4	CUST_ID	NUMBER[20]	Customer ID. In transfer-out CDRs, this field is set to the transferor customer ID. In transfer-in CDRs, this field is set to the transferee customer ID. If the transferor or transferee is an external subscriber, this field is left empty.	100000000000008649	these fields are fixed.
5	SUB_ID	NUMBER[20]	Subscriber ID. In transfer-out CDRs, this field is set to the transferor subscriber ID. In transfer-in CDRs, this field is set to the transferee subscriber ID. If the transferor or transferee is an external subscriber, this field is left empty.	100000000000008650	
6	PRI_IDENTITY	VARCHAR2[64]	Primary identifier. In transfer-out CDRs, this field is set to the transferor primary identifier. In transfer-in CDRs, this field is set to the transferee primary identifier. If the transferor or transferee is an external subscriber, this field is left empty. If a primary identifier is an MSISDN or a PSTN, the formats are as follows: • Country code + MSISDN • Country code + Area code + PSTN If a primary identifier is of other types, the value is the number that is transferred.	44136110000003	
7	BATCH_NO	NUMBER[20]	Transfer batch number. The default value is **0**. This field cannot be left empty.	0	
8	CHANNEL_ID	VARCHAR2[8]	Transfer channel ID. This field can be left empty. This field is reserved.	-	
9	REASON_	VARCHAR2[16	Transfer reason code.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	CODE	]	This field is left empty if it is not transferred from an external interface or entered on the GUI. This field can be left empty.		
10	RESULT_CODE	NUMBER[10]	Internal transfer result code. • **0**: The operation is successful. • Others: failure. For details, see **Background Error Codes** in the *Error Code Reference* document. This field cannot be left empty.	0	
11	ERROR_TYPE	VARCHAR2[32]	Error type. The options are as follows: • **-1**: Default error type. • **0**: The operation is successful. • **1**: The operation cannot be performed repeatedly. • **2**: No record is found. • **4**: No available resource is found. • **5**: Invalid data. • **6**: The specified operation is not allowed. • **7**: Authentication failed. This field cannot be left empty.	0	
12	REQUEST_ACCT_BALANCE_ID	NUMBER[20]	Instance ID of the transfer-out balance account. If the transferor or transferee is an external subscriber or a transfer is not performed for a specified account book, this field is set to **0**. This field cannot be left empty.	701000000000002871	
13	DEST_ACCT_ID	NUMBER[20]	Transfer-in account ID. If the transferor or transferee is an external subscriber, this field is set to **0**. This field cannot be left empty.	100010000000012166	
14	DEST_ACCT_BALANCE_ID	NUMBER[20]	Instance ID of the transfer-in balance account. Set this field to **0** for the transferor. If the transferee is an external	0	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			subscriber, this field is also set to **0**. If the transferee is an inner subscriber, this field is set to the ID of the account balance instance. This field cannot be left empty.		
15	TRANSFER_TYPE	NUMBER[10]	Transfer type. The options are as follows: • **0**: transfer-in • **1**: transfer-out • **4**: Exchange This field cannot be left empty.	1	
16	TRANSFER_AMT	NUMBER[20]	Transfer amount. The default value is **0**. This field cannot be left empty.	10000	
17	TRANSFER_DATE	DATE[14]	Time when a transfer transaction is executed. This field cannot be left empty.	20141215060703	
18	TRANSFER_TRANS_ID	NUMBER[20]	Transfer transaction ID. The default value is **0**. This field cannot be left empty.	34545	
19	EXT_TRANS_TYPE	VARCHAR2[32]	External transaction type, which is transferred from an external interface and is the same as the value of **Business Code**. This field is left empty if it is not transferred from an external interface. This field can be left empty.	CreateSubscriber	
20	EXT_TRANS_ID	VARCHAR2[32]	External sequence number of a transaction. This field is left empty if it is not transferred from an external interface. This field can be left empty.	-	
21	ACCESS_METHOD	NUMBER[10]	Transfer access method. The options are as follows: • **0**: IVR • **1**: USSD • **2**: SMS	3	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **3**: WebService • **4**: GUI • **5**: Task Other values can be extended based on the site requirements. This field cannot be left empty.		
22	DIAMETER_SESSIONID	VARCHAR2[128]	ID of the Diameter session initiated in a transfer. If a transfer is not performed based on Diameter, this field is left empty.	-	
23	HANDLING_CHARGE	NUMBER[20]	Transfer handling fee. If no handling fee needs to be collected, this field is set to **0**. This field cannot be left empty.	200	
24	REVERSAL_TRANS_ID	NUMBER[20]	Transfer reversal transaction ID. For a non-transfer reversal transaction, this field is set to **0**. This field cannot be left empty.	0	
25	REVERSAL_REASON_CODE	VARCHAR2[16]	Transfer reversal reason code. For a non-transfer reversal transaction, this field is left empty.	-	
26	REVERSAL_DATE	DATE[14]	Time when a transfer is reversed. For a non-transfer reversal transaction, this field is left empty.	-	
27	EXT_REF_ID	VARCHAR2[64]	External reference ID. This field is left empty if it is not transferred from an external interface.	-	
28	STATUS	VARCHAR2[1]	Transfer request status. The options are as follows: • **F**: Finished • **R**: Reversed The default value is **F**. This field cannot be left empty.	F	
29	ENTRY_DATE	DATE[14]	Time when a transfer record is created. This field cannot be left empty.	20141215060703	
30	REMARK	VARCH	Remarks.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
		AR2[128]	This field is left empty if it is not transferred from an external interface.		
31	OPER_ID	NUMBER[20]	ID of the operator who performs the transfer operation. The default value is **0**. This field cannot be left empty.	101	
32	DEPT_ID	NUMBER[20]	Department ID of the operator who performs the transfer operation. The default value is **0**. This field cannot be left empty.	101	
33	BE_ID	NUMBER[10]	ID of the lowest-level home BE. The default value is **0**. This field cannot be left empty.	101	
34	BE_CODE	VARCHAR2[256]	Code of the lowest-level home BE. This field is reserved.	101	
35	REGION_ID	NUMBER[10]	ID of the home management region. The default value is **0**. This field cannot be left empty.	101	
36	REGION_CODE	VARCHAR2[256]	Code of the home management region. This field can be left empty.	101	
37	ACCT_ID	NUMBER[20]	Account ID.	100000000000008651	The 37th to 136th fields record 10 groups of balance change information
38	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	701000000000002871	
39	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	1043	
40	CUR_BALANCE	NUMBER[20]	Current balance.	9525297	
41	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	10000	
42	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	20141211002655	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
43	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	20201231092720	on. The 37th to 46th fields record the first group of balance change information. If *N* balance changes are involved in a transfer, the first *N* groups of balance change fields are recorded and other groups of fields are left
44	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	20201231092720	
45	CURRENCYE_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	1049	
46	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	0	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					empty.
47	ACCT_ID	NUMBER[20]	Account ID.	-	The 37th to 136th fields record 10 groups of balance change information. The 47th to 56th fields record the second group of balance change information. If *N* balance changes are involved in a trans
48	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
49	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
50	CUR_BALANCE	NUMBER[20]	Current balance.	-	
51	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
52	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
53	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
54	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
55	CURRENCYE_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
56	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					fer, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
57	ACCT_ID	NUMBER[20]	Account ID.	-	The 37th to 136th fields record 10 groups of balance change information. The 57th to 66th fields record the
58	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
59	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
60	CUR_BALANCE	NUMBER[20]	Current balance.	-	
61	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
62	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
63	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
64	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
65	CURRENCYE_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
66	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	third group of balance change information. If *N* balance changes are involved in a transfer, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
67	ACCT_ID	NUMBER[20]	Account ID.	-	The 37th to 136th field
68	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
69	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	s record 10 groups of balance change information. The 67th to 76th fields record the fourth group of balance change information. If *N* balance changes are involved in a transfer, the first *N* groups of balance chan
70	CUR_BALANCE	NUMBER[20]	Current balance.	-	
71	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
72	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
73	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
74	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
75	CURRENCYE_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
76	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					ge fields are recorded and other groups of fields are left empty.
77	ACCT_ID	NUMBER[20]	Account ID.	-	The 37th to 136th fields record 10 groups of balance change information. The 77th to 86th fields record the fifth group of balance change information
78	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
79	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
80	CUR_BALANCE	NUMBER[20]	Current balance.	-	
81	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
82	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
83	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
84	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
85	CURRENCYE_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
86	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **3**: Increase the income. That is, add a balance account.		on. If *N* balance changes are involved in a transfer, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
87	ACCT_ID	NUMBER[20]	Account ID.	-	The 37th to 136th fields record 10 groups of balance change
88	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
89	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
90	CUR_BALANCE	NUMBER[20]	Current balance.	-	
91	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
92	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	information. The 87th to 96th fields record the sixth group of balance change information. If *N* balance changes are involved in a transfer, the first *N* groups of balance change fields are recorded and other groups of field
93	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
94	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
95	CURRENCYE_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
96	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Categorys
					s are left empty.
97	ACCT_ID	NUMBER[20]	Account ID.	-	The 37th to 136th fields record 10 groups of balance change information. The 97th to 106th fields record the seventh group of balance change information. If *N* balance changes are invol
98	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
99	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
100	CUR_BALANCE	NUMBER[20]	Current balance.	-	
101	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
102	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
103	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
104	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
105	CURRENCYE_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
106	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					ved in a transfer, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
107	ACCT_ID	NUMBER[20]	Account ID.	-	The 37th to 136th fields record 10 groups of balance change information. The 107th to 116th
108	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
109	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
110	CUR_BALANCE	NUMBER[20]	Current balance.	-	
111	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
112	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
113	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
114	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
115	CURRENCYE_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	fields record the eighth group of balance change information. If *N* balance changes are involved in a transfer, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
116	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	
117	ACCT_ID	NUMB	Account ID.	-	The

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SN	Field Name	Field Type	Description	Sample Value	Field Category
		ER[20]			37th to 136th fields record 10 groups of balance change information. The 117th to 126th fields record the ninth group of balance change information. If *N* balance changes are involved in a transfer, the first *N*
118	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
119	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
120	CUR_BALANCE	NUMBER[20]	Current balance.	-	
121	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
122	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
123	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
124	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
125	CURRENCYE_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
126	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					groups of balance change fields are recorded and other groups of fields are left empty.
127	ACCT_ID	NUMBER[20]	Account ID.	-	The 37th to 136th fields record 10 groups of balance change information. The 127th to 136th fields record the tenth group of
128	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
129	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
130	CUR_BALANCE	NUMBER[20]	Current balance.	-	
131	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
132	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
133	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
134	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
135	CURRENCYE_ID	NUMBER[10]	Currency type ID, which can be customized by a carrier.	-	
136	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.		balance change information. If *N* balance changes are involved in a transfer, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
137	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 137th to 246th fields record 10
138	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			FU_OWN_TYPE value.		groups of free unit change information. The 137th to 147th fields record the first group of free unit change information. If *N* free unit changes are involved in a transfer, the first *N* groups of free unit change fields are
139	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
140	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
141	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
142	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
143	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
144	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
145	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
146	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
147	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					recorded and other groups of fields are left empty.
148	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 137th to 246th fields record 10 groups of free unit change information. The 148th to 158th fields record the second group of free unit change information. If
149	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
150	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
151	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
152	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
153	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
154	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
155	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
156	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
157	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
158	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.		*N* free unit changes are involved in a transfer, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
159	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 137th to 246th fields record 10 groups of free unit change
160	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
161	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
162	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
163	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	information. The 159th to 169th fields record the third group of free unit change information. If *N* free unit changes are involved in a transfer, the first *N* groups of free unit change fields are recorded and other groups of
164	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
165	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
166	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
167	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
168	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
169	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					fields are left empty.
170	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 137th to 246th fields record 10 groups of free unit change information. The 170th to 180th fields record the fourth group of free unit change information. If *N* free unit changes are
171	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
172	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
173	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
174	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
175	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
176	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
177	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
178	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
179	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
180	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					involved in a transfer, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
181	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 137th to 246th fields record 10 groups of free unit change information. The 181st to
182	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
183	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
184	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
185	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
186	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
187	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	191st fields record the fifth group of free unit change information. If *N* free unit changes are involved in a transfer, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
188	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
189	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
190	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
191	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	
192	FU_OWN	VARCH	Free unit owner type. The options	-	The

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	_TYPE	AR2[1]	are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer		137th to 246th fields record 10 groups of free unit change information. The 192nd to 202nd fields record the sixth group of free unit change information. If *N* free unit changes are involved in a transfer, the first *N*
193	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
194	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
195	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
196	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
197	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
198	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
199	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
200	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
201	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
202	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					groups of free unit change fields are recorded and other groups of fields are left empty.
203	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 137th to 246th fields record 10 groups of free unit change information. The 203rd to 213rd fields record the seventh
204	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
205	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
206	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
207	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
208	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
209	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
210	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
211	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
212	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	group of free unit change information. If *N* free unit changes are involved in a transfer, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
213	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	
214	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 137th to 246th field

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SN	Field Name	Field Type	Description	Sample Value	Field Category
215	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	s record 10 groups of free unit change information. The 214th to 224th fields record the eighth group of free unit change information. If *N* free unit changes are involved in a transfer, the first *N* groups of free unit
216	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
217	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
218	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
219	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
220	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
221	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
222	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
223	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
224	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					change fields are recorded and other groups of fields are left empty.
225	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 137th to 246th fields record 10 groups of free unit change information. The 225th to 235th fields record the ninth group of free unit change
226	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
227	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
228	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
229	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
230	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
231	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
232	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
233	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
234	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
235	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	information. If *N* free unit changes are involved in a transfer, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
236	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 137th to 246th fields record 10 groups of free unit
237	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
238	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
239	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	change information. The 236th to 246th fields record the tenth group of free unit change information. If *N* free unit changes are involved in a transfer, the first *N* groups of free unit change fields are recorded and other
240	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
241	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
242	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
243	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
244	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
245	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
246	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					groups of fields are left empty.
247	ACCT_ID	NUMBER[20]	Account ID.	-	The 247th to 346th fields record 10 groups of bonus details. The 247th to 256th fields record the first group of bonus details. If *N* bonuses are involved in a transfer, the first
248	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
249	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
250	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
251	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
252	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
253	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
254	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
255	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
256	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					N groups of bonus details fields are recorded and other groups of fields are left empty.
257	ACCT_ID	NUMBER[20]	Account ID.	-	The 247th to 346th fields record 10 groups of bonus details. The 257th to 266th fields record the second group of bonu
258	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
259	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
260	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
261	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
262	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
263	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
264	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
265	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
266	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows:	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.		s details. If *N* bonuses are involved in a transfer, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
267	ACCT_ID	NUMBER[20]	Account ID.	-	The 247th to 346th fields record 10 groups of bonus details.
268	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
269	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
270	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
271	CURRENT_BALAN	NUMBER[20]	Current fund balance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	CE				The 267th to 276th fields record the third group of bonus details. If *N* bonuses are involved in a transfer, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
272	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
273	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
274	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
275	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
276	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	
277	ACCT_ID	NUMBER[20]	Account ID.	-	The 247t

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SN	Field Name	Field Type	Description	Sample Value	Field Category
278	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	h to 346th fields record 10 groups of bonus details. The 277th to 286th fields record the fourth group of bonus details. If *N* bonuses are involved in a transfer, the first *N* groups of bonus details fields are
279	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
280	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
281	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
282	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
283	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
284	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
285	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
286	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					recorded and other groups of fields are left empty.
287	ACCT_ID	NUMBER[20]	Account ID.	-	The 247th to 346th fields record 10 groups of bonus details. The 287th to 296th fields record the fifth group of bonus details. If *N* bonuses are involved in a
288	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
289	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
290	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
291	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
292	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
293	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
294	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
295	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
296	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					transfer, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
297	ACCT_ID	NUMBER[20]	Account ID.	-	The 247th to 346th fields record 10 groups of bonus details. The 297th to 306th fields record the
298	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
299	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
300	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
301	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
302	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
303	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
304	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
305	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	sixth group of bonus details. If *N* bonuses are involved in a transfer, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
306	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	
307	ACCT_ID	NUMBER[20]	Account ID.	-	The 247th to 346th fields record 10 groups of
308	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
309	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
310	BONUS_	NUMB	Bonus amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	AMOUNT	ER[20]			bonus details. The 307th to 316th fields record the seventh group of bonus details. If *N* bonuses are involved in a transfer, the first *N* groups of bonus details fields are recorded and other groups of fields are left
311	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
312	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
313	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
314	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
315	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
316	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					empty.
317	ACCT_ID	NUMBER[20]	Account ID.	-	The 247th to 346th fields record 10 groups of bonus details. The 317th to 326th fields record the eighth group of bonus details. If *N* bonuses are involved in a transfer, the first *N* groups of bonu
318	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
319	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
320	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
321	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
322	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
323	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
324	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
325	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
326	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					s details fields are recorded and other groups of fields are left empty.
327	ACCT_ID	NUMBER[20]	Account ID.	-	The 247th to 346th fields record 10 groups of bonus details. The 327th to 336th fields record the ninth group of bonus details. If *N* bonu
328	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
329	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
330	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
331	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
332	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
333	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
334	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
335	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
336	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			bonus account book.		ses are involved in a transfer, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
337	ACCT_ID	NUMBER[20]	Account ID.	-	The 247th to 346th fields record 10 groups of bonus details. The 337th to 346th
338	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
339	BALANCE_TYPE	NUMBER[20]	ID of the balance account type, which can be customized by a carrier.	-	
340	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
341	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
342	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
343	PRE_EXPI	DATE[1	Original expiration time of the	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	RE_TIME	4]	account book.		fields record the tenth group of bonus details. If *N* bonuses are involved in a transfer, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
344	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
345	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
346	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	
347	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 347th to 456th field

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SN	Field Name	Field Type	Description	Sample Value	Field Category
348	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	s record 10 groups of free unit reward details. The 347th to 357th fields record the first group of free unit reward details. If *N* free unit rewards are involved in a transfer, the first *N* groups of free unit reward detai
349	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
350	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
351	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
352	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
353	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
354	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
355	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
356	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
357	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					ls fields are recorded and other groups of fields are left empty.
358	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 347th to 456th fields record 10 groups of free unit reward details. The 358th to 368th fields record the second group of free unit reward detai
359	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
360	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
361	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
362	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
363	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
364	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
365	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
366	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
367	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
368	OPER_TY	NUMB	Operation type. The options are as	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	PE	ER[10]	follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.		ls. If *N* free unit rewards are involved in a transfer, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
369	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 347th to 456th fields record 10 groups of free unit
370	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
371	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
372	FREE_UN	NUMB	Free unit ID.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	IT_ID	ER[20]			reward details. The 369th to 379th fields record the third group of free unit reward details. If *N* free unit rewards are involved in a transfer, the first *N* groups of free unit reward details fields are recorded and other
373	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
374	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
375	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
376	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
377	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
378	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
379	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					groups of fields are left empty.
380	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 347th to 456th fields record 10 groups of free unit reward details. The 380th to 390th fields record the fourth group of free unit reward details. If *N* free unit rewards are
381	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
382	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
383	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
384	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
385	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
386	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
387	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
388	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
389	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
390	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					involved in a transfer, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
391	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 347th to 456th fields record 10 groups of free unit reward details. The 391st
392	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
393	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
394	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
395	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
396	CURRENT_AMOU	NUMBER[20]	Current free unit amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	NT				to 401st fields record the fifth group of free unit reward details. If *N* free unit rewards are involved in a transfer, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
397	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
398	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
399	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
400	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
401	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
402	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 347th to 456th fields record 10 groups of free unit reward details. The 402nd to 412nd fields record the sixth group of free unit reward details. If *N* free unit rewards are involved in a transfer, the first *N* grou
403	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
404	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
405	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
406	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
407	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
408	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
409	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
410	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
411	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
412	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					ps of free unit reward details fields are recorded and other groups of fields are left empty.
413	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 347th to 456th fields record 10 groups of free unit reward details. The 413rd to 423rd fields record the seventh grou
414	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
415	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
416	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
417	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
418	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
419	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
420	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
421	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
422	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	p of free unit reward details. If *N* free unit rewards are involved in a transfer, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
423	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	
424	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 347th to 456th field

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SN	Field Name	Field Type	Description	Sample Value	Field Category
425	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	s record 10 groups of free unit reward details. The 424th to 434th fields record the eighth group of free unit reward details. If *N* free unit rewards are involved in a transfer, the first *N* groups of free unit reward
426	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
427	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
428	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
429	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
430	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
431	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
432	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
433	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
434	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					details fields are recorded and other groups of fields are left empty.
435	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 347th to 456th fields record 10 groups of free unit reward details. The 435th to 445th fields record the ninth group of free unit reward
436	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
437	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
438	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
439	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
440	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
441	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
442	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
443	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
444	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
445	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	details. If *N* free unit rewards are involved in a transfer, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
446	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 347th to 456th fields record 10 groups of
447	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
448	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
449	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	free unit reward details. The 446th to 456th fields record the tenth group of free unit reward details. If *N* free unit rewards are involved in a transfer, the first *N* groups of free unit reward details fields are recorded
450	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
451	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
452	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
453	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
454	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
455	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
456	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					and other groups of fields are left empty.
457	BrandID	NUMBER[10]	Brand ID. In the process of transferring an amount for a specified account, this field can be left empty. This field can be left empty.	1264167925	The 457th to 474th fields record additional transfer information. These fields are provided in the baseline version and can be extended based on the site requirements.
458	MainOfferingID	NUMBER[10]	Primary offering ID. In the process of transferring an amount for a specified account, this field can be left empty. This field can be left empty.	1264171217	
459	PayType	VARCHAR2[1]	Payment type of a subscriber. • **0**: prepaid • **1**: postpaid • **2**: Hybrid In the process of transferring an amount for a specified account, this field can be left empty. This field can be left empty.	1	
460	StartTimeOfBillCycle	VARCHAR2[14]	Bill cycle start time, in the format *YYYYMMDDHHMMSS*. This field cannot be left empty.	-	
461	DETAIL_FEE	VARCHAR2[1024]	This field is reserved.	-	
462	Account	VARCHAR2[1024]	This field is reserved.	-	
463	MainBalanceInfo	VARCHAR2[255]	This field is reserved.	-	
464	ChgBalanceInfo	VARCHAR2[10	This field is reserved.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
		24]			
465	ChgFreeUnitInfo	VARCHAR2[1024]	This field is reserved.	-	
466	UserState	VARCHAR2[10]	This field is reserved.	-	
467	oldUserState	VARCHAR2[10]	This field is reserved.	-	
468	TransferType	NUMBER[10]	This field is reserved.	0	
469	Dest_Pri_Identity	VARCHAR2[36]	This field is reserved.	-	
470	SPID	VARCHAR2[20]	This field is reserved.	-	
471	Additional Info	VARCHAR2[256]	This field is reserved.	-	
472	Merchant	VARCHAR2[20]	This field is reserved.	-	
473	Service	VARCHAR2[20]	This field is reserved.	-	

4.3.3 Adjustment CDR

This topic describes fields in adjustment CDRs.

CDR Instance

Example of a adjustment CDR file name: cbs_cdr_adj_20141025_751_101_011077.add

251000000000000209|100020000000012515|100020000000012512|100020000000012513|4
4136110002339|1|0||Promotion|0|0|701000000000002931|10000|34552|Adjustment||3|0|||F|20
141215074348|10001|101||101||101|101|0|0|0|0|0|0|0|0|0|0|0|100020000000012515|701000000
000002931|1043|10000|10000|20141215074348|20370101000000|20370101000000|1049|3|||||
||||||

||||||

SN	Field Name	Field Type	Description	Sample Value	Field Category
6	PAY_TYPE	VARCHAR2[1]	Payment type of an account. The options are as follows: • **0**: prepaid • **1**: postpaid This field cannot be left empty.	1	
7	BATCH_NO	NUMBER[20]	Adjustment batch number. For a single adjustment, this field is set to **0**. This field cannot be left empty.	0	
8	CHANNEL_ID	VARCHAR2[8]	Adjustment channel ID. This field is left empty if it is not transferred from an external interface or entered on the GUI. • **0**: IVR • **1**: USSD • **2**: SMS • **3**: WebService • **4**: GUI Other values can be extended based on the site requirements. This field can be left empty.	-	
9	REASON_CODE	VARCHAR2[16]	Adjustment reason code. This field is left empty if it is not transferred from an external interface or entered on the GUI.	Promotion	
10	RESULT_CODE	NUMBER[10]	Internal adjustment result code. • **0**: The operation is successful. • Others: failure. For details, see **Background Error Codes** in the *Error Code Reference* document. This field cannot be left empty.	0	
11	ERROR_TYPE	VARCHAR2[32]	Error type. The options are as follows: • **-1**: Default error type. • **0**: The operation is successful. • **1**: The operation cannot be performed repeatedly. • **2**: No record is found. • **4**: No available resource is	0	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			found. • **5**: Invalid data. • **6**: The specified operation is not allowed. • **7**: Authentication failed. This field can be left empty.		
12	ACCT_BALANCE_ID	NUMBER[20]	Instance ID of the adjusted balance account. For an account-level adjustment transaction, this field is set to **0**. This field cannot be left empty.	701000000000002931	
13	ADJUST_AMT	NUMBER[20]	Adjusted amount. The default value is **0**. This field cannot be left empty.	10000	
14	ADJUST_TRANS_ID	NUMBER[20]	Adjustment transaction ID. The default value is **0**. This field cannot be left empty.	34552	
15	EXT_TRANS_TYPE	VARCHAR2[32]	External transaction type, which is transferred from an external interface and is the same as the value of **Business Code**. This field is left empty if it is not transferred from an external interface. This field can be left empty.	Adjustment	
16	EXT_TRANS_ID	VARCHAR2[32]	External sequence number of a transaction. This field is left empty if it is not transferred from an external interface.	-	
17	ACCESS_METHOD	NUMBER[10]	Adjustment access method. The options are as follows: • **0**: IVR • **1**: USSD • **2**: SMS • **3**: WebService • **4**: GUI • **5**: Task Other values can be extended based	3	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			on the site requirements. This field is reserved.		
18	REVERSAL_TRANS_ID	NUMBER[20]	Adjustment reversal transaction ID. For a non-adjustment reversal transaction, this field is set to **0**. This field cannot be left empty.	0	
19	REVERSAL_REASON_CODE	VARCHAR2[16]	Adjustment reversal reason code. In the non-adjustment reversal process or in the scenario where this field is not transferred from an external interface or entered on the GUI, this field is left empty.	-	
20	REVERSAL_DATE	DATE[14]	Time when an adjustment is reversed. For a non-adjustment reversal transaction, this field is left empty.	-	
21	STATUS	VARCHAR2[1]	Adjustment request status. The options are as follows: • **F**: Finished • **R**: Reversed The default value is **F**. This field cannot be left empty.	F	
22	ENTRY_DATE	DATE[14]	Time when an adjustment record is created. This field cannot be left empty.	20141215074348	
23	OPER_ID	NUMBER[20]	ID of the operator who performs the adjustment operation. The default value is **0**. This field cannot be left empty.	10001	
24	DEPT_ID	NUMBER[20]	Department ID of the operator who performs the adjustment operation. The default value is **0**. This field cannot be left empty.	101	
25	REMARK	VARCHAR2[128]	Remarks. This field is left empty if it is not transferred from an external interface or entered on the GUI. This field can be left empty.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
26	BE_ID	NUMBER[10]	ID of the lowest-level home BE. The default value is **0**. This field cannot be left empty.	101	
27	BE_CODE	VARCHAR2[256]	Code of the lowest-level home BE. This field is reserved.	-	
28	REGION_ID	NUMBER[10]	ID of the home management region. The default value is **0**. This field cannot be left empty.	101	
29	REGION_CODE	VARCHAR2[256]	Code of the home management region. This field can be left empty.	101	
30	DEBIT_AMOUNT	NUMBER[20]	Actual amount that is deducted, which includes the amount deducted from prepaid main funds, bonuses, postpaid credits, and prepayments of all accounts (including payment accounts) used in a transaction but excludes the undebited amount.	0	The 30th to 37th fields record total fund information.
31	Reserved	NUMBER[20]	This field is reserved.	-	
32	DEBIT_FROM_PREPAID	NUMBER[20]	Total amount deducted from prepaid main funds and bonuses of all prepaid accounts, including payment accounts.	0	
33	DEBIT_FROM_ADVANCE_PREPAID	NUMBER[20]	Total amount deducted from prepaid main funds of all prepaid accounts, including payment accounts.	0	
34	DEBIT_FROM_POSTPAID	NUMBER[20]	Total amount deducted from credits, bonuses, deposits, and prepayments of all postpaid accounts, including payment accounts.	0	
35	DEBIT_FROM_ADVANCE_POSTPAID	NUMBER[20]	Total amount deducted from prepayments of all postpaid accounts, including payment accounts.	0	
36	DEBIT_FROM_CREDIT_POSTPAID	NUMBER[20]	Total amount deducted from credits of all postpaid accounts, including payment accounts.	0	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
37	TOTAL_TAX	NUMBER[20]	Total tax amount.	0	
38	FREE_UNIT_AMOUNT_OF_TIMES	NUMBER[20]	Number of free units charged per use.	0	The 38th to 40th fields record free unit information. There can be zero or one group of free unit information based on the service requirements.
39	FREE_UNIT_AMOUNT_OF_DURATION	NUMBER[20]	Usage of free units that are charged by duration. The duration unit is defined by the system. Generally, the unit is second.	0	
40	FREE_UNIT_AMOUNT_OF_FLUX	NUMBER[20]	Usage of free units that are charged by traffic. The traffic unit is defined by the system. Generally, the unit is byte.	0	
41	ACCT_ID	NUMBER[20]	Account ID.	100020000000012515	The 41st to 140th fields record 10 groups of balance chan
42	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	701000000000002931	
43	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	1043	
44	CUR_BALANCE	NUMBER[20]	Current balance.	10000	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
45	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	10000	ge information. The 41st to 50th fields record the first group of balance change information. If *N* balance changes are involved in an adjustment, the first *N* groups of balance change fields are recorded and other groups of fields
46	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	20141215074348	
47	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	20370101000000	
48	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	20370101000000	
49	CURRENCYE_ID	NUMBER[10]	Currency type ID.	1049	
50	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	3	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					are left empty.
51	ACCT_ID	NUMBER[20]	Account ID.	-	The 41st to 140th fields record 10 groups of balance change information. The 51st to 60th fields record the second group of balance change information. If *N* balance changes are involved in an adjustment
52	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
53	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	-	
54	CUR_BALANCE	NUMBER[20]	Current balance.	-	
55	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
56	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
57	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
58	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
59	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
60	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
61	ACCT_ID	NUMBER[20]	Account ID.	-	The 41st to 140th fields record 10 groups of balance change information. The 61st to 70th fields record the third group of
62	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
63	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	-	
64	CUR_BALANCE	NUMBER[20]	Current balance.	-	
65	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
66	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
67	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
68	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
69	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
70	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	balance change information. If *N* balance changes are involved in an adjustment, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
71	ACCT_ID	NUMBER[20]	Account ID.	-	The 41st to 140th fields record 10 grou
72	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
73	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			ACCT_BALANCE_ID value.		ps of balance change information. The 71st to 80th fields record the fourth group of balance change information. If *N* balance changes are involved in an adjustment, the first *N* groups of balance change fields are recorded
74	CUR_BALANCE	NUMBER[20]	Current balance.	-	
75	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
76	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
77	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
78	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
79	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
80	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					and other groups of fields are left empty.
81	ACCT_ID	NUMBER[20]	Account ID.	-	The 41st to 140th fields record 10 groups of balance change information. The 81st to 90th fields record the fifth group of balance change information. If *N* balance changes are invol
82	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
83	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	-	
84	CUR_BALANCE	NUMBER[20]	Current balance.	-	
85	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
86	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
87	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
88	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
89	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
90	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					ved in an adjustment, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
91	ACCT_ID	NUMBER[20]	Account ID.	-	The 41st to 140th fields record 10 groups of balance change information. The 91st to 100th fields record the
92	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
93	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	-	
94	CUR_BALANCE	NUMBER[20]	Current balance.	-	
95	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
96	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
97	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
98	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
99	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	sixth group of balance change information. If *N* balance changes are involved in an adjustment, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
100	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	
101	ACCT_ID	NUMBER[20]	Account ID.	-	The 41st to 140th fields recor
102	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
103	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	-	d 10 groups of balance change information. The 101st to 110th fields record the seventh group of balance change information. If *N* balance changes are involved in an adjustment, the first *N* groups of balance change fields are
104	CUR_BALANCE	NUMBER[20]	Current balance.	-	
105	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
106	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
107	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
108	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
109	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
110	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					recorded and other groups of fields are left empty.
111	ACCT_ID	NUMBER[20]	Account ID.	-	The 41st to 140th fields record 10 groups of balance change information. The 111st to 120th fields record the eighth group of balance change information. If *N* balance chan
112	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
113	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	-	
114	CUR_BALANCE	NUMBER[20]	Current balance.	-	
115	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
116	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
117	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
118	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
119	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
120	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					ges are involved in an adjustment, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
121	ACCT_ID	NUMBER[20]	Account ID.	-	The 41st to 140th fields record 10 groups of balance change information. The 121st to 130th
122	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	
123	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	-	
124	CUR_BALANCE	NUMBER[20]	Current balance.	-	
125	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
126	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
127	PRE_EXPI	DATE[	Original expiration time of the	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	RE_TIME	14]	account book.		fields record the ninth group of balance change information. If *N* balance changes are involved in an adjustment, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
128	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
129	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
130	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	
131	ACCT_ID	NUMBER[20]	Account ID.	-	The 41st

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SN	Field Name	Field Type	Description	Sample Value	Field Category
132	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	-	to 140th fields record 10 groups of balance change information. The 131st to 140th fields record the tenth group of balance change information. If *N* balance changes are involved in an adjustment, the first *N* groups of balance chan
133	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	-	
134	CUR_BALANCE	NUMBER[20]	Current balance.	-	
135	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	-	
136	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
137	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
138	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
139	CURRENCYE_ID	NUMBER[10]	Currency type ID.	-	
140	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend an amount. • **1**: Perform accounting. That is, settle a postpaid account. • **2**: Update the income. That is, add an amount to an existing balance account. • **3**: Increase the income. That is, add a balance account.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					ge fields are recorded and other groups of fields are left empty.
141	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 141st to 250th fields record 10 groups of free unit change information. The 141st to 151st fields record the first group of free unit change information. If *N* free
142	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
143	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
144	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
145	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
146	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
147	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
148	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
149	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
150	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
151	OPER_TY	NUMB	Operation type. The options are as	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	PE	ER[10]	follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.		unit changes are involved in an adjustment, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
152	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 141st to 250th fields record 10 groups of free unit change information. The 152n
153	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
154	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
155	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
156	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
157	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	d to 162nd fields record the second group of free unit change information. If *N* free unit changes are involved in an adjustment, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
158	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
159	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
160	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
161	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
162	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
163	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 141st to 250th fields record 10 groups of free unit change information. The 163rd to 173rd fields record the third group of free unit change information. If *N* free unit changes are involved in an adjustment, the first *N* groups of
164	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
165	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
166	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
167	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
168	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
169	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
170	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
171	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
172	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
173	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					free unit change fields are recorded and other groups of fields are left empty.
174	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 141st to 250th fields record 10 groups of free unit change information. The 174th to 184th fields record the fourth group of free unit change infor
175	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
176	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
177	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
178	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
179	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
180	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
181	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
182	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
183	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			Field Description.		mation. If *N* free unit changes are involved in an adjustment, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
184	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	
185	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 141st to 250th fields record 10 groups of free unit change information
186	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
187	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
188	FREE_UN	NUMB	Free unit type.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	IT_TYPE	ER[20]			mation. The 185th to 195th fields record the fifth group of free unit change information. If *N* free unit changes are involved in an adjustment, the first *N* groups of free unit change fields are recorded and other groups of fields are left
189	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
190	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
191	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
192	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
193	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
194	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
195	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					empty.
196	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 141st to 250th fields record 10 groups of free unit change information. The 196th to 206th fields record the sixth group of free unit change information. If *N* free unit changes are involved in an adjustment, the first *N*
197	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
198	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
199	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
200	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
201	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
202	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
203	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
204	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
205	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
206	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					groups of free unit change fields are recorded and other groups of fields are left empty.
207	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 141st to 250th fields record 10 groups of free unit change information. The 207th to 217th fields record the seventh group of free unit
208	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
209	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
210	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
211	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
212	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
213	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
214	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
215	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
216	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	change information. If *N* free unit changes are involved in an adjustment, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
217	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	
218	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 141st to 250th fields record 10 groups of free
219	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
220	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	unit change information. The 218th to 228th fields record the eighth group of free unit change information. If *N* free unit changes are involved in an adjustment, the first *N* groups of free unit change fields are recorded and other
221	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
222	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
223	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
224	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
225	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
226	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
227	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
228	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					groups of fields are left empty.
229	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 141st to 250th fields record 10 groups of free unit change information. The 229th to 239th fields record the ninth group of free unit change information. If *N* free unit changes are involved in an
230	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
231	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
232	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
233	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
234	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
235	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
236	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
237	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
238	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
239	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is,	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			add a free unit instance.		adjustment, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
240	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 141st to 250th fields record 10 groups of free unit change information. The 240th to 250th fields record the tenth grou
241	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	-	
242	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
243	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
244	CUR_AMOUNT	NUMBER[20]	Current free unit amount.	-	
245	CHG_AMOUNT	NUMBER[20]	Free unit change amount.	-	
246	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
247	PRE_EXPI	DATE[	Original expiration time of free	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	RE_TIME	14]	units.		p of free unit change information. If *N* free unit changes are involved in an adjustment, the first *N* groups of free unit change fields are recorded and other groups of fields are left empty.
248	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
249	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
250	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: Expend a free unit. • **1**: Update the income. That is, add free units to an existing free unit instance. • **2**: Increase the income. That is, add a free unit instance.	-	
251	ACCT_ID	NUMBER[20]	Account ID.	-	The 251st to 350th fields record 10 grou
252	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
253	BALANCE_TYPE	NUMBER[20]	Balance type.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
254	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	ps of bonus details. The 251st to 260th fields record the first group of bonus details. If *N* bonuses are involved in an adjustment, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
255	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
256	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
257	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
258	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
259	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
260	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
261	ACCT_ID	NUMBER[20]	Account ID.	-	The 251st to 350th fields record 10 groups of bonus details. The 261st to 270th fields record the second group of bonus details. If *N* bonuses are involved in an adjustment, the first *N* groups of bonus details fields are recorded
262	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
263	BALANCE_TYPE	NUMBER[20]	Balance type.	-	
264	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
265	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
266	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
267	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
268	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
269	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
270	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					and other groups of fields are left empty.
271	ACCT_ID	NUMBER[20]	Account ID.	-	The 251st to 350th fields record 10 groups of bonus details. The 271st to 280th fields record the third group of bonus details. If *N* bonuses are involved in an adjustment, the first *N* grou
272	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
273	BALANCE_TYPE	NUMBER[20]	Balance type.	-	
274	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
275	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
276	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
277	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
278	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
279	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
280	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					ps of bonus details fields are recorded and other groups of fields are left empty.
281	ACCT_ID	NUMBER[20]	Account ID.	-	The 251st to 350th fields record 10 groups of bonus details. The 281st to 290th fields record the fourth group of bonus details. If *N* bonuses
282	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
283	BALANCE_TYPE	NUMBER[20]	Balance type.	-	
284	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
285	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
286	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
287	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
288	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
289	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
290	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **6**: Add bonuses to an existing bonus account book.		are involved in an adjustment, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
291	ACCT_ID	NUMBER[20]	Account ID.	-	The 251st to 350th fields record 10 groups of bonus details. The 291st to 300th fields record the
292	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
293	BALANCE_TYPE	NUMBER[20]	Balance type.	-	
294	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
295	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
296	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
297	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
298	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	fifth group of bonus details. If *N* bonuses are involved in an adjustment, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
299	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
300	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	
301	ACCT_ID	NUMBER[20]	Account ID.	-	The 251st to 350th fields record 10 groups of bonus
302	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
303	BALANCE_TYPE	NUMBER[20]	Balance type.	-	
304	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
305	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	details. The 301st to 310th fields record the sixth group of bonus details. If *N* bonuses are involved in an adjustment, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
306	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
307	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
308	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
309	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
310	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	
311	ACCT_ID	NUMBER[20]	Account ID.	-	The 251st

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SN	Field Name	Field Type	Description	Sample Value	Field Category
312	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	to 350th fields record 10 groups of bonus details. The 311st to 320th fields record the seventh group of bonus details. If *N* bonuses are involved in an adjustment, the first *N* groups of bonus details fields are recorded and other
313	BALANCE_TYPE	NUMBER[20]	Balance type.	-	
314	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
315	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
316	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
317	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
318	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
319	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
320	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					groups of fields are left empty.
321	ACCT_ID	NUMBER[20]	Account ID.	-	The 251st to 350th fields record 10 groups of bonus details. The 321st to 330th fields record the eighth group of bonus details. If *N* bonuses are involved in an adjustment, the first *N* groups of
322	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
323	BALANCE_TYPE	NUMBER[20]	Balance type.	-	
324	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
325	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
326	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
327	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
328	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
329	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
330	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					bonus details fields are recorded and other groups of fields are left empty.
331	ACCT_ID	NUMBER[20]	Account ID.	-	The 251st to 350th fields record 10 groups of bonus details. The 331st to 340th fields record the ninth group of bonus details. If *N* bonuses are invol
332	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
333	BALANCE_TYPE	NUMBER[20]	Balance type.	-	
334	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
335	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
336	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
337	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
338	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	
339	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	
340	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			bonus account book.		ved in an adjustment, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
341	ACCT_ID	NUMBER[20]	Account ID.	-	The 251st to 350th fields record 10 groups of bonus details. The 341st to 350th fields record the tenth group of
342	ACCT_BALANCE_ID	NUMBER[20]	Account book ID.	-	
343	BALANCE_TYPE	NUMBER[20]	Balance type.	-	
344	BONUS_AMOUNT	NUMBER[20]	Bonus amount.	-	
345	CURRENT_BALANCE	NUMBER[20]	Current fund balance.	-	
346	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	-	
347	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	-	
348	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
349	CURRENCY_ID	NUMBER[10]	Currency type ID.	-	bonus details. If *N* bonuses are involved in an adjustment, the first *N* groups of bonus details fields are recorded and other groups of fields are left empty.
350	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **4**: Roll over bonuses. • **5**: Add a bonus account book. • **6**: Add bonuses to an existing bonus account book.	-	
351	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 351st to 460th fields record 10 groups of free unit reward detail
352	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
353	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
354	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
355	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	s. The 351st to 361st fields record the first group of free unit reward details. If *N* free unit rewards are involved in an adjustment, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left
356	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
357	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
358	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
359	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
360	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
361	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					empty.
362	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 351st to 460th fields record 10 groups of free unit reward details. The 362nd to 372nd fields record the second group of free unit reward details. If *N* free unit rewards are involved in an adjustment, the first *N*
363	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
364	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
365	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
366	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
367	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
368	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
369	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
370	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
371	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
372	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					groups of free unit reward details fields are recorded and other groups of fields are left empty.
373	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 351st to 460th fields record 10 groups of free unit reward details. The 373rd to 383rd fields record the third group of free unit
374	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
375	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
376	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
377	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
378	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
379	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
380	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
381	CUR_EXP	DATE[	Current expiration time of free units.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	IRE_TIME	14]			reward details. If *N* free unit rewards are involved in an adjustment, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
382	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
383	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	
384	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 351st to 460th fields record 10 groups of free
385	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
386	FREE_UN	NUMB	Free unit type.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	IT_TYPE	ER[20]			unit reward details. The 384th to 394th fields record the fourth group of free unit reward details. If *N* free unit rewards are involved in an adjustment, the first *N* groups of free unit reward details fields are recorded and other
387	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
388	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
389	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
390	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
391	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
392	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
393	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
394	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					groups of fields are left empty.
395	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 351st to 460th fields record 10 groups of free unit reward details. The 395th to 405th fields record the fifth group of free unit reward details. If *N* free unit rewards are involved in an adjustment
396	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
397	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
398	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
399	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
400	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
401	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
402	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
403	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
404	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
405	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
406	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 351st to 460th fields record 10 groups of free unit reward details. The 406th to 416th fields record the sixth group of
407	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
408	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
409	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
410	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
411	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
412	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
413	PRE_EXPI	DATE[	Original expiration time of free	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	RE_TIME	14]	units.		free unit reward details. If *N* free unit rewards are involved in an adjustment, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
414	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
415	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
416	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	
417	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 351st to 460th fields record 10 grou
418	FU_OWN_	NUMB	Free unit owner ID.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	ID	ER[20]			ps of free unit reward details. The 417th to 427th fields record the seventh group of free unit reward details. If *N* free unit rewards are involved in an adjustment, the first *N* groups of free unit reward details fields are recorded
419	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
420	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
421	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
422	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
423	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
424	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
425	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
426	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
427	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					and other groups of fields are left empty.
428	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 351st to 460th fields record 10 groups of free unit reward details. The 428th to 438th fields record the eighth group of free unit reward details. If *N* free unit rewards are involved
429	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
430	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
431	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
432	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
433	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
434	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
435	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
436	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
437	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
438	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					in an adjustment, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
439	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	-	The 351st to 460th fields record 10 groups of free unit reward details. The 439th to 449th fields record the
440	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
441	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
442	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
443	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
444	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
445	PRE_APP	DATE[	Original effective time of free units.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	LY_TIME	14]			ninth group of free unit reward details. If *N* free unit rewards are involved in an adjustment, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
446	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
447	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
448	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
449	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	
450	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group	-	The 351st to 460th

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SN	Field Name	Field Type	Description	Sample Value	Field Category
			• **C**: customer		fields record 10 groups of free unit reward details. The 450th to 460th fields record the tenth group of free unit reward details. If *N* free unit rewards are involved in an adjustment, the first *N* groups of free unit reward details fields
451	FU_OWN_ID	NUMBER[20]	Free unit owner ID.	-	
452	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	-	
453	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	-	
454	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	-	
455	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	-	
456	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	-	
457	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	-	
458	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	-	
459	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	-	
460	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					are recorded and other groups of fields are left empty.
461	BrandID	NUMBER[10]	Brand ID. In the process of adjusting a specified account, this field can be left empty. This field can be left empty.	1471808690	The 461st to 475th fields record additional adjustment information. These fields are provided in the baseline version and can be extended based on the site requirements.
462	MainOfferingID	NUMBER[10]	Primary offering ID. In the process of adjusting a specified account, this field can be left empty. This field can be left empty.	1971808709	
463	PayType	VARCHAR2[1]	Payment type of a subscriber. The options are as follows: • **0**: prepaid • **1**: postpaid • **2**: hybrid In the process of adjusting a specified account, this field can be left empty. This field can be left empty.	1	
464	StartTimeOfBillCycle	VARCHAR2[14]	Bill cycle start time, in the format *YYYYMMDDHHMMSS*. This field cannot be left empty.	-	
465	Account	VARCHAR2[1024]	This field is reserved.	-	
466	MainBalanceInfo	VARCHAR2[255]	This field is reserved.	-	
467	ChgBalanc	VARCHAR2[	This field is reserved.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	eInfo	1024]			
468	ChgFreeUnitInfo	VARCHAR2[1024]	This field is reserved.	-	
469	UserState	VARCHAR2[10]	This field is reserved.	-	
470	oldUserState	VARCHAR2[10]	This field is reserved.	-	
471	SPID	VARCHAR2[20]	This field is reserved.	-	
472	AdditionalInfo	VARCHAR2[256]	This field is reserved.	-	
473	Merchant	VARCHAR2[20]	This field is reserved.	-	
474	Service	VARCHAR2[20]	This field is reserved.	-	
475	TAX_CODE_ID	NUMBER[20]	Code ID of the adjustment tax, corresponding to CHARGE_CODE_ID.	-	The 475st to 494th fields record 10 groups of tax information. The 475st to 476th fields record the first grou
476	TAX_AMOUNT	NUMBER[20]	Amount of the tax specified by the tax code during account adjustment.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					p of tax information.
477	TAX_CODE_ID	NUMBER[20]	Code ID of the adjustment tax, corresponding to CHARGE_CODE_ID.	-	The 475st to 494th fields record 10 groups of tax information. The 477st to 478th fields record the second group of tax information.
478	TAX_AMOUNT	NUMBER[20]	Amount of the tax specified by the tax code during account adjustment.	-	
479	TAX_CODE_ID	NUMBER[20]	Code ID of the adjustment tax, corresponding to CHARGE_CODE_ID.	-	The 475st to 494th fields record 10 groups of tax information. The 479st to
480	TAX_AMOUNT	NUMBER[20]	Amount of the tax specified by the tax code during account adjustment.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					480th fields record the third group of tax information.
481	TAX_CODE_ID	NUMBER[20]	Code ID of the adjustment tax, corresponding to CHARGE_CODE_ID.	-	The 475st to 494th fields record 10 groups of tax information. The 481st to 482th fields record the fourth group of tax information.
482	TAX_AMOUNT	NUMBER[20]	Amount of the tax specified by the tax code during account adjustment.	-	
483	TAX_CODE_ID	NUMBER[20]	Code ID of the adjustment tax, corresponding to CHARGE_CODE_ID.	-	The 475st to 494th fields record 10 groups of tax
484	TAX_AMOUNT	NUMBER[20]	Amount of the tax specified by the tax code during account adjustment.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					information. The 483st to 484th fields record the fifth group of tax information.
485	TAX_CODE_ID	NUMBER[20]	Code ID of the adjustment tax, corresponding to CHARGE_CODE_ID.	-	The 475st to 494th fields record 10 groups of tax information. The 485st to 486th fields record the sixth group of tax information.
486	TAX_AMOUNT	NUMBER[20]	Amount of the tax specified by the tax code during account adjustment.	-	
487	TAX_CODE_ID	NUMBER[20]	Code ID of the adjustment tax, corresponding to CHARGE_CODE_ID.	-	The 475st to 494th fields
488	TAX_AM	NUMB	Amount of the tax specified by the	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
	OUNT	ER[20]	tax code during account adjustment.		record 10 groups of tax information. The 487st to 488th fields record the seventh group of tax information.
489	TAX_CODE_ID	NUMBER[20]	Code ID of the adjustment tax, corresponding to CHARGE_CODE_ID.	-	The 475st to 494th fields record 10 groups of tax information. The 489st to 490th fields record the eighth group of tax infor
490	TAX_AMOUNT	NUMBER[20]	Amount of the tax specified by the tax code during account adjustment.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					mation.
491	TAX_CODE_ID	NUMBER[20]	Code ID of the adjustment tax, corresponding to CHARGE_CODE_ID.	-	The 475st to 494th fields record 10 groups of tax information. The 491st to 492th fields record the ninth group of tax information.
492	TAX_AMOUNT	NUMBER[20]	Amount of the tax specified by the tax code during account adjustment.	-	
493	TAX_CODE_ID	NUMBER[20]	Code ID of the adjustment tax, corresponding to CHARGE_CODE_ID.	-	The 475st to 494th fields record 10 groups of tax information. The 493st to 494th fields record the
494	TAX_AMOUNT	NUMBER[20]	Amount of the tax specified by the tax code during account adjustment.	-	

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SN	Field Name	Field Type	Description	Sample Value	Field Category
					tenth group of tax information.

4.3.4 Loan CDR

This topic describes fields in loan CDRs generated on the CBP.

Table 4-18 describes fields in loan CDRs.

Table 4-18 Loan CDR

SN	Field Name	Field Type	Description	Field Category
1	SUB_ID	NUMBER[20]	Subscriber ID. The default value is **0**. This field cannot be left empty.	The first 19 fields record the first part of basic information in CDR files. The meaning and length of these fields are fixed.
2	PRI_IDENTITY	VARCHAR2[64]	Subscriber primary identifier. If a primary identifier is an MSISDN or a PSTN, the formats are as follows: • Country code + MSISDN • Country code + Area code + PSTN If a primary identifier is of other types, the value is the number that is transferred.	
3	OPER_DATE	DATE[14]	Operation time. This field cannot be left empty.	
4	OPER_TYPE	VARCHAR2[1]	Operation type. The options are as follows: • **L**: loan • **R**: loan payment by recharge • **T**: loan payment by transfer • **A**: loan payment by adjustment • **F**: forcible loan payment • **C**: loan payment cancellation due to recharge reversal When the loan and handling fee	

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SN	Field Name	Field Type	Description	Field Category
			payment is canceled due to recharge reversal, the system needs to update the loan information table and record the historical loan log table. This field cannot be left empty.	
5	LOAN_BALANCE_TYPE	NUMBER[20]	Loan account book type. The default value is **0**. This field cannot be left empty.	
6	INIT_LOAN_AMT	NUMBER[20]	Initial loan amount. The default value is **0**. This field cannot be left empty.	
7	INIT_LOAN_POUNDAGE	NUMBER[20]	Initial loan handling fee. The default value is **0**. This field cannot be left empty.	
8	LOAN_AMT	NUMBER[20]	Unpaid loan amount. The default value is **0**. This field cannot be left empty.	
9	LOAN_POUNDAGE	NUMBER[20]	Unpaid loan handling fee. The default value is **0**. This field cannot be left empty.	
10	REPAY_AMT	NUMBER[20]	Loan payment amount. The default value is **0**. This field cannot be left empty.	
11	REPAY_POUNDAGE	NUMBER[20]	Payment amount of the loan handling fee. The default value is **0**. This field cannot be left empty.	
12	ETU_GRACE_DATE	DATE[14]	Loan payment deadline. This field can be left empty.	
13	FORCE_REPAY_DATE	DATE[14]	Forcible payment date. This field can be left empty.	
14	TRANS_ID	NUMBER[20]	Sequence number of a transaction. The default value is **0**. This field cannot be left empty.	
15	ENTRY_DATE	DATE[14]	Time when a record is created. This field cannot be left empty.	

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SN	Field Name	Field Type	Description	Field Category
16	PRI_OFFERING	NUMBER[20]	Primary offering. The default value is **0**. This field cannot be left empty.	
17	LOAN_PENALTY	NUMBER[20]	Loan penalty that is paid currently. The default value is **0**. This field cannot be left empty.	
18	LOAN_PENALTY_LEFT	NUMBER[20]	Remaining loan penalty. The default value is **0**. This field cannot be left empty.	
19	LOAN_OCCUR_DATE	DATE[14]	Time when a loan is applied. This field can be left empty.	
20	ACCT_ID	NUMBER[20]	Account ID.	The 20th to 149th fields record 10 groups of balance change information. The 20th to 32nd fields record the first group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded and
21	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	
22	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	
23	CUR_BALANCE	NUMBER[20]	Current balance.	
24	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	
25	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	
26	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	
27	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	
28	BAL_PAY_PLAN_ID	NUMBER[20]	Balance payment plan ID.	
29	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: expend • **1**: perform accounting • **2**: update the income • **3**: increase the income	

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SN	Field Name	Field Type	Description	Field Category
30	CURRENCYE_ID	NUMBER[10]	Currency type ID.	other groups of fields are left empty.
31	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
32	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
33	ACCT_ID	NUMBER[20]	Account ID.	The 20th to 149th fields record 10 groups of balance change information. The 33rd to 45nd fields record the second group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
34	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	
35	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	
36	CUR_BALANCE	NUMBER[20]	Current balance.	
37	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	
38	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	
39	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	
40	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	
41	BAL_PAY_PLAN_ID	NUMBER[20]	Balance payment plan ID.	
42	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: expend • **1**: perform accounting • **2**: update the income • **3**: increase the income	
43	CURRENCYE_ID	NUMBER[10]	Currency type ID.	
44	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
45	RESERVED_FLAG	VARCHAR2[4]	Reserved.	

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SN	Field Name	Field Type	Description	Field Category
46	ACCT_ID	NUMBER [20]	Account ID.	The 20th to 149th fields record 10 groups of balance change information. The 46th to 58th fields record the third group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
47	ACCT_BALANCE_ID	NUMBER [20]	ID of a balance account.	
48	BALANCE_TYPE	NUMBER [20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	
49	CUR_BALANCE	NUMBER [20]	Current balance.	
50	CHG_BALANCE	NUMBER [20]	Change amount of the balance.	
51	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	
52	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	
53	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	
54	BAL_PAY_PLAN_ID	NUMBER [20]	Balance payment plan ID.	
55	OPER_TYPE	NUMBER [10]	Operation type. The options are as follows: • **0**: expend • **1**: perform accounting • **2**: update the income • **3**: increase the income	
56	CURRENCYE_ID	NUMBER [10]	Currency type ID.	
57	CONTENT_PROD_ID	NUMBER [20]	Content type ID.	
58	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
59	ACCT_ID	NUMBER [20]	Account ID.	The 20th to 149th fields record 10 groups of balance change
60	ACCT_BALANCE_ID	NUMBER [20]	ID of a balance account.	
61	BALANCE_TYPE	NUMBER [20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	

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SN	Field Name	Field Type	Description	Field Category
62	CUR_BALANCE	NUMBER[20]	Current balance.	information. The 59th to 71st fields record the fourth group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
63	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	
64	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	
65	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	
66	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	
67	BAL_PAY_PLAN_ID	NUMBER[20]	Balance payment plan ID.	
68	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: expend • **1**: perform accounting • **2**: update the income • **3**: increase the income	
69	CURRENCYE_ID	NUMBER[10]	Currency type ID.	
70	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
71	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
72	ACCT_ID	NUMBER[20]	Account ID.	The 20th to 149th fields record 10 groups of balance change information. The 72nd to 84th fields record
73	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	
74	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	
75	CUR_BALANCE	NUMBER[20]	Current balance.	
76	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	
77	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	

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SN	Field Name	Field Type	Description	Field Category
78	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	the fifth group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
79	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	
80	BAL_PAY_PLAN_ID	NUMBER[20]	Balance payment plan ID.	
81	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: expend • **1**: perform accounting • **2**: update the income • **3**: increase the income	
82	CURRENCYE_ID	NUMBER[10]	Currency type ID.	
83	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
84	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
85	ACCT_ID	NUMBER[20]	Account ID.	The 20th to 149th fields record 10 groups of balance change information. The 85th to 97th fields record the sixth group of balance change information. If *N* balance changes are involved
86	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	
87	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	
88	CUR_BALANCE	NUMBER[20]	Current balance.	
89	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	
90	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	
91	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	
92	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	
93	BAL_PAY_PLAN_ID	NUMBER[20]	Balance payment plan ID.	

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SN	Field Name	Field Type	Description	Field Category
94	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: expend • **1**: perform accounting • **2**: update the income • **3**: increase the income	, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
95	CURRENCYE_ID	NUMBER[10]	Currency type ID.	
96	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
97	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
98	ACCT_ID	NUMBER[20]	Account ID.	The 20th to 149th fields record 10 groups of balance change information. The 98th to 110th fields record the seventh group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded
99	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	
100	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	
101	CUR_BALANCE	NUMBER[20]	Current balance.	
102	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	
103	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	
104	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	
105	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	
106	BAL_PAY_PLAN_ID	NUMBER[20]	Balance payment plan ID.	
107	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: expend • **1**: perform accounting • **2**: update the income • **3**: increase the income	

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SN	Field Name	Field Type	Description	Field Category
108	CURRENCYE_ID	NUMBER[10]	Currency type ID.	and other groups of fields are left empty.
109	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
110	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
111	ACCT_ID	NUMBER[20]	Account ID.	The 20th to 149th fields record 10 groups of balance change information. The 111st to 123rd fields record the eighth group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
112	ACCT_BALANCE_ID	NUMBER[20]	ID of a balance account.	
113	BALANCE_TYPE	NUMBER[20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	
114	CUR_BALANCE	NUMBER[20]	Current balance.	
115	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	
116	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	
117	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	
118	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	
119	BAL_PAY_PLAN_ID	NUMBER[20]	Balance payment plan ID.	
120	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: expend • **1**: perform accounting • **2**: update the income • **3**: increase the income	
121	CURRENCYE_ID	NUMBER[10]	Currency type ID.	
122	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
123	RESERVED_FLAG	VARCHAR2[4]	Reserved.	

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SN	Field Name	Field Type	Description	Field Category
124	ACCT_ID	NUMBER [20]	Account ID.	The 20th to 149th fields record 10 groups of balance change information. The 124th to 136th fields record the ninth group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
125	ACCT_BALANCE_ID	NUMBER [20]	ID of a balance account.	
126	BALANCE_TYPE	NUMBER [20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	
127	CUR_BALANCE	NUMBER [20]	Current balance.	
128	CHG_BALANCE	NUMBER [20]	Change amount of the balance.	
129	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	
130	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	
131	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	
132	BAL_PAY_PLAN_ID	NUMBER [20]	Balance payment plan ID.	
133	OPER_TYPE	NUMBER [10]	Operation type. The options are as follows: • **0**: expend • **1**: perform accounting • **2**: update the income • **3**: increase the income	
134	CURRENCYE_ID	NUMBER [10]	Currency type ID.	
135	CONTENT_PROD_ID	NUMBER [20]	Content type ID.	
136	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
137	ACCT_ID	NUMBER [20]	Account ID.	The 20th to 149th fields record 10 groups of balance change
138	ACCT_BALANCE_ID	NUMBER [20]	ID of a balance account.	
139	BALANCE_TYPE	NUMBER [20]	ID of the balance type. Set this field based on the **ACCT_BALANCE_ID** value.	

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SN	Field Name	Field Type	Description	Field Category
140	CUR_BALANCE	NUMBER[20]	Current balance.	information. The 137th to 149th fields record the tenth group of balance change information. If *N* balance changes are involved, the first *N* groups of balance change fields are recorded and other groups of fields are left empty.
141	CHG_BALANCE	NUMBER[20]	Change amount of the balance.	
142	PRE_APPLY_TIME	DATE[14]	Original effective time of the account book.	
143	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of the account book.	
144	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of the account book.	
145	BAL_PAY_PLAN_ID	NUMBER[20]	Balance payment plan ID.	
146	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **0**: expend • **1**: perform accounting • **2**: update the income • **3**: increase the income	
147	CURRENCYE_ID	NUMBER[10]	Currency type ID.	
148	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
149	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
150	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	The 150th to 299th fields record 10 groups of free unit reward details. The 150th to 164th fields record the first
151	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
152	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
153	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
154	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
155	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	group of free unit reward details. If *N* free unit reward details are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
156	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
157	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	
158	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	
159	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	
160	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
161	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
162	EXCHANGE_SRV_AMT	NUMBER[20]	Traffic length.	
163	SRV_TYPE	NUMBER[10]	Traffic type.	
164	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
165	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	The 150th to 299th fields record 10 groups of free unit reward details. The 165th to 179th fields
166	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
167	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
168	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
169	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance.	

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SN	Field Name	Field Type	Description	Field Category
			• **5**: Add free units to an existing free unit instance.	record the second group of free unit reward details. If *N* free unit reward details are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
170	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	
171	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
172	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	
173	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	
174	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	
175	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
176	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
177	EXCHANGE_SRV_AMT	NUMBER[20]	Traffic length.	
178	SRV_TYPE	NUMBER[10]	Traffic type.	
179	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
180	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	The 150th to 299th fields record 10 groups of free unit reward details. The
181	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
182	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
183	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
184	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows:	

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SN	Field Name	Field Type	Description	Field Category
			• **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	180th to 194th fields record the third group of free unit reward details. If *N* free unit reward details are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
185	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	
186	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
187	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	
188	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	
189	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	
190	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
191	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
192	EXCHANGE_SRV_AMT	NUMBER[20]	Traffic length.	
193	SRV_TYPE	NUMBER[10]	Traffic type.	
194	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
195	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	The 150th to 299th fields record 10 groups of free unit reward
196	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
197	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
198	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	

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SN	Field Name	Field Type	Description	Field Category
199	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	details. The 195th to 209th fields record the fourth group of free unit reward details. If *N* free unit reward details are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
200	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	
201	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
202	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	
203	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	
204	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	
205	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
206	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
207	EXCHANGE_SRV_AMT	NUMBER[20]	Traffic length.	
208	SRV_TYPE	NUMBER[10]	Traffic type.	
209	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
210	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	The 150th to 299th fields record 10 groups
211	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
212	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	

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SN	Field Name	Field Type	Description	Field Category
213	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	of free unit reward details. The 210th to 224th fields record the fifth group of free unit reward details. If *N* free unit reward details are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
214	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	
215	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	
216	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
217	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	
218	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	
219	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	
220	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
221	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
222	EXCHANGE_SRV_AMT	NUMBER[20]	Traffic length.	
223	SRV_TYPE	NUMBER[10]	Traffic type.	
224	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
225	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	The 150th to 299th fields record
226	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	

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SN	Field Name	Field Type	Description	Field Category
227	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	10 groups of free unit reward details. The 225th to 239th fields record the sixth group of free unit reward details. If *N* free unit reward details are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
228	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
229	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	
230	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	
231	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
232	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	
233	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	
234	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	
235	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
236	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
237	EXCHANGE_SRV_AMT	NUMBER[20]	Traffic length.	
238	SRV_TYPE	NUMBER[10]	Traffic type.	
239	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
240	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	The 150th to

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SN	Field Name	Field Type	Description	Field Category
241	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	299th fields record 10 groups of free unit reward details. The 240th to 254th fields record the seventh group of free unit reward details. If *N* free unit reward details are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
242	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
243	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
244	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	
245	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	
246	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
247	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	
248	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	
249	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	
250	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
251	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
252	EXCHANGE_SRV_AMT	NUMBER[20]	Traffic length.	
253	SRV_TYPE	NUMBER[10]	Traffic type.	
254	RESERVED_FLAG	VARCHAR2[4]	Reserved.	

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SN	Field Name	Field Type	Description	Field Category
255	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	The 150th to 299th fields record 10 groups of free unit reward details. The 255th to 269th fields record the eighth group of free unit reward details. If *N* free unit reward details are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
256	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
257	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
258	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
259	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	
260	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	
261	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
262	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	
263	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	
264	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	
265	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
266	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
267	EXCHANGE_SRV_AMT	NUMBER[20]	Traffic length.	
268	SRV_TYPE	NUMBER[10]	Traffic type.	

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SN	Field Name	Field Type	Description	Field Category
269	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
270	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	The 150th to 299th fields record 10 groups of free unit reward details. The 270th to 284th fields record the ninth group of free unit reward details. If *N* free unit reward details are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
271	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
272	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
273	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
274	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	
275	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	
276	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
277	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	
278	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	
279	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	
280	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
281	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
282	EXCHANGE_SRV_AMT	NUMBER[20]	Traffic length.	

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SN	Field Name	Field Type	Description	Field Category
283	SRV_TYPE	NUMBER[10]	Traffic type.	
284	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
285	FREE_UNIT_ID	NUMBER[20]	Free unit ID.	The 150th to 299th fields record 10 groups of free unit reward details. The 285th to 299th fields record the tenth group of free unit reward details. If *N* free unit reward details are involved, the first *N* groups of free unit reward details fields are recorded and other groups of fields are left empty.
286	FREE_UNIT_TYPE	NUMBER[20]	Free unit type.	
287	BONUS_AMOUNT	NUMBER[20]	Rewarded free unit amount.	
288	CURRENT_AMOUNT	NUMBER[20]	Current free unit amount.	
289	OPER_TYPE	NUMBER[10]	Operation type. The options are as follows: • **3**: Roll over free units. • **4**: Add a free unit instance. • **5**: Add free units to an existing free unit instance.	
290	FU_OWN_TYPE	VARCHAR2[1]	Free unit owner type. The options are as follows: • **S**: subscriber • **G**: subscriber group • **C**: customer	
291	FU_OWN_ID	NUMBER[20]	Free unit owner ID. Set this field based on the **FU_OWN_TYPE** value.	
292	PRE_APPLY_TIME	DATE[14]	Original effective time of free units.	
293	PRE_EXPIRE_TIME	DATE[14]	Original expiration time of free units.	
294	CUR_EXPIRE_TIME	DATE[14]	Current expiration time of free units.	
295	FU_MEASURE_ID	NUMBER[10]	Free unit measurement unit ID. For details see 4.1.6 FU_MEASURE_ID Field Description.	
296	CONTENT_PROD_ID	NUMBER[20]	Content type ID.	
297	EXCHANG	NUMBER	Traffic length.	

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SN	Field Name	Field Type	Description	Field Category
	E_SRV_AMT	[20]		
298	SRV_TYPE	NUMBER[10]	Traffic type.	
299	RESERVED_FLAG	VARCHAR2[4]	Reserved.	
300	ADDITIONAL_INFO	VARCHAR2[2048]	Additional information. Format: *owner_cust_id,billcycleid* Fields must be separated with a comma (,).	

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