



CHAPTER 11

Measurements

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This chapter describes the tables and their commands that are used to provision and manage the types of traffic statistics in Measurement tables.



Note

Some tokens in this chapter are mandatory for *on-demand requests*. An *on-demand request* takes a snapshot of current counters at a particular point in time. This snapshot can be across current collection intervals (time interval), although only data from the current interval is returned. For example, if you wish to get a current measurement at 6:10 AM, and it is 6:10 AM, you can enter a start time of 6:10 or greater (such as 6:20). But you will receive only those counters collected from 6:01 until 6:10, within the time of the current collection interval. For this type of command, the on-demand tokens are mandatory. However, if it is 6:10 AM and you run a start time of 5:00 and an end time of 5:30, you will receive all measurements collected in that interval and the on-demand tokens are optional.

For any measurement report request, you can specify the creation of a file of comma-separated ASCII data of the values retrieved. This is done using the `output=<filename>` token. This token is created in memory when needed and is not physically present in any of the measurement tables. It is used in conjunction with the `output-type` token. For example, entering the following command results in the creation of a file `Tm_yourfilename.csv` in the `/opt/ems/report` directory:

```
report measurement-callp-summary; output=callpsummary; output-type=CSV
```

All files begin with `Tm_`, followed by the filename entered by the user, and are placed in the `/opt/ems/report` directory on the active Element Management System (EMS).

The output file contains the same data that one receives from issuing a report, except that the data is arranged horizontally in a comma-separated format. Therefore, instead of the following:

```
FIELD-NAME1 value1  
FIELD-NAME2 value2
```

The output is:

```
FIELD-NAME1, FIELD-NAME2, value1, value2, and so forth.
```



Note

In the following tables, the start-time value must be greater than, or equal to, now when you take snapshots of measurement data that have not yet been logged to the disk yet.



Note

In this chapter, an asterisk preceding a token name means the token is mandatory. A token without an asterisk is optional.

AIN Services Summary

The Measurement AIN Services Feature Server Summary (measurement-ainsvc-summary) table requests a summary report of AIN service-related statistics for a specified Feature Server that occur during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-AINSVC-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-ainsvc-summary;
report measurement-ainsvc-summary start-time=2001-03-27 06:00:00; end-time=2001-03-27
13:00:00; feature-server-id=FSAIN203;output-type=csv;
clear measurement-ainsvc-summary feature-server-id=FSAIN203;
```



Caution

The clear command clears *all* current collecting measurement values for the specified Call Agent. There will not be any announcement data to report until the next interval.

Usage Guidelines

Primary Key Token(s): None.
Foreign Key Token(s): feature-server-id

Syntax Description

FEATURE-SERVER-ID	Mandatory for on-demand requests. Foreign key: Feature Server table. The ID of the associated Feature Server. VARCHAR(8): 1–8 ASCII characters in the format fsptcnnn or fsainnnn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-1 for permitted values.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.

INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Table 11-1 lists the values for the AIN Services Summary Display token.

Table 11-1 AIN Services Summary Display Token Values

TIMESTAMP
NODENAME
CONDITION
AIN SVC_TOTAL_QUERY
AIN SVC_8XX_QUERY
AIN SVC_EXT_8XX_QUERY
AIN SVC_EXT_8XX_QUERY_SUCC
AIN SVC_EXT_8XX_FAIL_APP
AIN SVC_EXT_8XX_FAIL_NETW
AIN SVC_LOC_8XX_QUERY
AIN SVC_LOC_8XX_QUERY_SUCC
AIN SVC_LOC_8XX_ANI_BLOCK
AIN SVC_LOC_8XX_II_BLOCK
AIN SVC_LOC_8XX_DNIS_SUCC

AIN SVC LOC 8XX ROUTING SUCC	
AIN SVC LOC 8XX REROUTE	
AIN SVC LOC 8XX FAIL APP	
AIN SVC TOTAL LNP QUERY	
AIN SVC EXT LNP QUERY	
AIN SVC EXT LNP QUERY SUCC	
AIN SVC EXT LNP FAIL APP	
AIN SVC EXT LNP FAIL NETW	
AIN SVC EXT 8XX QUERY FAIL	
AIN SVC EXT LNP QUERY LRN	
AIN SVC EXT LNP QUERY FAIL	
AIN SVC LOC LNP QUERY	(Release 4.5)
AIN SVC LOC LNP QUERY SUCC	(Release 4.5)
AIN SVC LOC LNP FAIL APP	(Release 4.5)
AIN SVC LOC LNP QUERY RN FOUND	(Release 4.5)
AIN SVC LOC LNP QUERY NO RN	(Release 4.5)
NUM OF 8XX	
NUM OF AIN	
NUM OF CNAM	
NUM OF EXT 8XX	
NUM OF EXT 8XX FAIL APPL	
NUM OF EXT 8XX FAIL NET	
NUM OF EXT 8XX QUERY FAIL	
NUM OF EXT 8XX SUCCEED	
NUM OF EXT CNAM	
NUM OF EXT CNAM FAIL APPL	
NUM OF EXT CNAM SUCCEED	
NUM OF EXT LNP	
NUM OF EXT LNP FAIL APPL	
NUM OF EXT LNP QUERY FAIL	
NUM OF EXT LNP QUERY LRN	
NUM OF EXT LNP SUCCEED	
NUM OF LNP	
NUM OF LOC 8XX	
NUM OF LOC 8XX ANI BLOCKED	
NUM OF LOC 8XX DNIS SUCCEED	
NUM OF LOC 8XX FAIL APPL	
NUM OF LOC 8XX II BLOCKED	

NUM_OF_LOC_8XX_REROUTED
NUM_OF_LOC_8XX_ROUTING_SUCCEED
NUM_OF_LOC_8XX_SUCCEED
SIP_100_RX
SIP_100_TX
SIP_18x_RX
SIP_18x_TX
SIP_200_RX
SIP_200_TX
SIP_3xx_RX
SIP_3xx_TX
SIP_4xx_RX
SIP_4xx_TX
SIP_5xx_RX
SIP_5xx_TX
SIP_6xx_RX
SIP_6xx_TX
SIP_7xx_RX
SIP_7xx_TX
SIP_ACK_RX
SIP_ACK_TX
SIP_BYE_RX
SIP_BYE_TX
SIP_CANCEL_RX
SIP_CANCEL_TX
SIP_INFO_RX
SIP_INFO_TX
SIP_INVITE_RX
SIP_INVITE_REPLACES_RX
SIP_INVITE_REPLACES_TX
SIP_INVITE_TX
SIP_NOTIFY_RX
SIP_NOTIFY_TX
SIP_OPTIONS_RX
SIP_OPTIONS_TX
SIP_PRACK_RX
SIP_PRACK_TX
SIP_PROV_RSP_RETRAN_RX

SIP_PROV_RSP_RETRAN_TX
SIP_REFER_RX
SIP_REFER_W_REPLACEs_RX
SIP_REFER_TX
SIP_REGISTER_RX
SIP_REGISTER_TX
SIP_REL100_RX
SIP_REL100_TX
SIP_REQ_RETRAN_RX
SIP_REQ_RETRAN_TX
SIP_RSP_RETRAN_RX
SIP_RSP_RETRAN_TX
SIP_SUBSCRIBE_RX
SIP_SUBSCRIBE_TX
SIP_T1_TIMER_EXPIRED
SIP_T2_TIMER_REACHED
SIP_TOTAL_INCOM_MSG
SIP_TOTAL_SUCC_INCOM_MSG
SIP_TOTAL_OUTG_MSG_ATTMP
SIP_TOTAL_SUCC_OUTG_MSG
SIP_UNSUPPORTED_RX
SIP_UPDATE_RX
SIP_UPDATE_TX

Announcement Measurements Summary

The Announcement Measurements Summary (measurement-anm-summary) table collects announcement statistics, such as how many times a specific announcement was played during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-ANM-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-anm-summary;
report measurement-anm-summary start-time=2001-03-27 06:00:00; end-time=2001-03-27
06:30:00; call-agent-id=CA146;output-type=csv;
clear measurement-anm-summary call-agent-id=ca001;
```

**Caution**

The clear command clears *all* current collecting measurement values for the specified Call Agent. There will not be any announcement data to report until the next interval.

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Change Rules: None.

Syntax Description

CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. ID of the associated Call Agent. VARCHAR(8): 1–8 ASCII characters in the format CAnnn or cannn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. Permitted values are: TIMESTAMP NODENAME CONDITION ANM_ADDR_INCOMPLETE ANM_AUTHCODE_INVALID ANM_CALL_REJECTED ANM_CAUSE_UNKNOWN ANM_CKT_UNAVAIL ANM_DEST_OUTOFORDER ANM_EMG_CKT_UNAVAIL (Release 4.5) ANM_FAC_REJECT ANM_FEAT_NOT_SUBS ANM_HNPA_ABSENT ANM_NO_ROUTE_DEST ANM_NO_RTE_TRANSITNW ANM_NUM_CHANGED ANM_PRE_0_1_ABSENT ANM_PRE_0_1_PRESENT ANM_TEMP_DISCONNECT ANM_UNALLOCATED_NUM
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.

INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Measurement AIN Tools Summary (Release 4.4.1)

The Measurement AIN Tools Summary (measurement-ain-tools-summary) table collects AIN tools statistics. Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-AIN-TOOLS-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-ain-tools-summary;
report measurement-ain-tools-summary start-time=2002-03-27 10:00:00; end-time=2002-03-27
12:00:00; feature-server-id=FSAIN203; output=ain-tools-report; output-type=csv;
clear measurement-ain-tools-summary feature-server-id=FSAIN203;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description	FEATURE-SERVER-ID	Mandatory for on-demand requests. Foreign key: Feature Server table. The ID of the associated Feature Server. VARCHAR(8): 1–8 ASCII characters in the format fsptcnnn or fsainnnn.
	DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-2 for permitted values.
	END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
	INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
	OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
	START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
	SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

[Table 11-2](#) lists the values for the Measurement AIN Tools Summary Display token.

Table 11-2 Measurement AIN Tools Summary Display Token Values

TIMESTAMP
NODENAME
CONDITION
AIN SVC_8XX_QUERY
AIN SVC_EXT_8XX_FAIL_APP
AIN SVC_EXT_8XX_FAIL_NETW
AIN SVC_EXT_8XX_QUERY

AIN SVC_EXT_8XX_QUERY_FAIL	
AIN SVC_EXT_8XX_QUERY_SUCC	
AIN SVC_EXT_LNP_FAIL_APP	
AIN SVC_EXT_LNP_FAIL_NETW	
AIN SVC_EXT_LNP_QUERY	
AIN SVC_EXT_LNP_QUERY_FAIL	
AIN SVC_EXT_LNP_QUERY_LRN	
AIN SVC_EXT_LNP_QUERY_SUCC	
AIN SVC_LOC_8XX_ANI_BLOCK	
AIN SVC_LOC_8XX_DNIS_SUCC	
AIN SVC_LOC_8XX_FAIL_APP	
AIN SVC_LOC_8XX_II_BLOCK	
AIN SVC_LOC_8XX_QUERY	
AIN SVC_LOC_8XX_QUERY_SUCC	
AIN SVC_LOC_8XX_REROUTE	
AIN SVC_LOC_8XX_ROUTING_SUCC	
AIN SVC_LOC_LNP_FAIL_APP	(Release 4.5)
AIN SVC_LOC_LNP_QUERY	(Release 4.5)
AIN SVC_LOC_LNP_QUERY_NO_RN	(Release 4.5)
AIN SVC_LOC_LNP_QUERY_RN_FOUND	(Release 4.5)
AIN SVC_LOC_LNP_QUERY_SUCC	(Release 4.5)
AIN SVC_TOTAL_LNP_QUERY	
AIN SVC_TOTAL_QUERY	
SIS_100_RX	(Release 4.5)
SIS_100_TX	(Release 4.5)
SIS_18x_RX	(Release 4.5)
SIS_18x_TX	(Release 4.5)
SIS_200_RX	(Release 4.5)
SIS_200_TX	(Release 4.5)
SIS_3xx_RX	(Release 4.5)
SIS_3xx_TX	(Release 4.5)
SIS_4xx_RX	(Release 4.5)
SIS_4xx_TX	(Release 4.5)
SIS_5xx_RX	(Release 4.5)
SIS_5xx_TX	(Release 4.5)
SIS_6xx_RX	(Release 4.5)
SIS_6xx_TX	(Release 4.5)
SIS_7xx_RX	(Release 4.5)

SIS_7xx_TX	(Release 4.5)
SIS_ACK_RX	(Release 4.5)
SIS_ACK_TX	(Release 4.5)
SIS_BYE_RX	(Release 4.5)
SIS_BYE_TX	(Release 4.5)
SIS_CANCEL_RX	(Release 4.5)
SIS_CANCEL_TX	(Release 4.5)
SIS_INFO_RX	(Release 4.5)
SIS_INFO_TX	(Release 4.5)
SIS_INVITE_REPLACES_RX	(Release 4.5)
SIS_INVITE_REPLACES_TX	(Release 4.5)
SIS_INVITE_RX	(Release 4.5)
SIS_INVITE_TX	(Release 4.5)
SIS_NOTIFY_RX	(Release 4.5)
SIS_NOTIFY_TX	(Release 4.5)
SIS_OPTIONS_RX	(Release 4.5)
SIS_OPTIONS_TX	(Release 4.5)
SIS_PRACK_RX	(Release 4.5)
SIS_PRACK_TX	(Release 4.5)
SIS_PROV_RSP_RETRAN_RX	(Release 4.5)
SIS_PROV_RSP_RETRAN_TX	(Release 4.5)
SIS_REFERER_RX	(Release 4.5)
SIS_REFERER_TX	(Release 4.5)
SIS_REFERER_W_REPLACES_RX	(Release 4.5)
SIS_REGISTER_RX	(Release 4.5)
SIS_REGISTER_TX	(Release 4.5)
SIS_REL100_RX	(Release 4.5)
SIS_REL100_TX	(Release 4.5)
SIS_REQ_RETRAN_RX	(Release 4.5)
SIS_REQ_RETRAN_TX	(Release 4.5)
SIS_RSP_RETRAN_RX	(Release 4.5)
SIS_RSP_RETRAN_TX	(Release 4.5)
SIS_SUBSCRIBE_RX	(Release 4.5)
SIS_SUBSCRIBE_TX	(Release 4.5)
SIS_T1_TIMER_EXPIRED	(Release 4.5)
SIS_T2_TIMER_REACHED	(Release 4.5)
SIS_TOTAL_INCOM_MSG	(Release 4.5)
SIS_TOTAL_OUTG_MSG_ATTMP	(Release 4.5)

SIS_TOTAL_SUCC_INCOM_MSG	(Release 4.5)
SIS_TOTAL_SUCC_OUTG_MSG	(Release 4.5)
SIS_UNSUPPORTED_RX	(Release 4.5)
SIS_UPDATE_RX	(Release 4.5)
SIS_UPDATE_TX	(Release 4.5)
TOOLS_LNP_QUERY_ATTMP	
TOOLS_LNP_QUERY_SUCC	
TOOLS_TOLLFREE_QUERY_ATTMP	
TOOLS_TOLLFREE_QUERY_SUCC	

Measurement Audit Summary

The Measurement Audit Summary (measurement-audit-summary) table requests a summary report of audit-related statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-AUDIT-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-audit-summary;  
report measurement-audit-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27  
06:30:00; call-agent-id=CA146;output-type=csv;  
clear measurement-audit-summary call-agent-id=CA146;
```



Caution

The clear command clears *all* current collecting measurement values for the specified Call Agent. There will not be any announcement data to report until the next interval.

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description	CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. ID of the associated Call Agent. VARCHAR(8): 1–8 ASCII characters in the format CAnnn or cannn.
	DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. Permitted values are: TIMESTAMP NODENAME CONDITION AUDIT_FS_TOTAL_SIP_RESP_TMO (Release 4.5) AUDIT_FS_TOTAL_SIP_NOACK_TMO (Release 4.5) AUDIT_FS_TOTAL_CA_SWITCHOVER (Release 4.5) AUDIT_SIP_CCB_FREED (Release 4.5) AUDIT_SIP_CALL_RELEASED (Release 4.5) AUDIT_SIP_BCM_CALL_RELEASED (Release 4.5) AUDIT_SIP_REGCONTACT_FREED (Release 4.5) AUDIT_SS7_TRUNK_STATE_SYNCED (Release 4.5) AUDIT_SS7_LONG_DUR_EXCEEDED (Release 4.5) SS7_AUDIT_LONG_DUR_EXCEEDED SS7_AUDIT_TRUNK_STATE_SYNCED
	END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
	INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
	OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language

START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Measurement Billing Summary

The Measurement Billing Summary (measurement-billing-summary) table requests a summary report of billing-related statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-BILLING-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-billing-summary;
report measurement-billing-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; call-agent-id=CA146;output-type=csv;
clear measurement-billing-summary call-agent-id=CA146;
```



Caution

The clear command clears *all* current collecting measurement values for the specified Call Agent. There will not be any announcement data to report until the next interval.

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description

CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. ID of the associated Call Agent. VARCHAR(8): 1–8 ASCII characters in the format CAnnn or cannn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-3 for permitted values.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.

OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Table 11-3 lists the values for the Measurement Billing Summary Display token.

Table 11-3 Measurement Billing Summary Display Token Values

TIMESTAMP
NODENAME
CONDITION
BILLING_EM_ACKED
BILLING_EM_LOGGED
BILLING_EM_RETRANS
BILLING_TOTAL_AIRLINES (Release 4.5)
BILLING_TOTAL_CNA (Release 4.5)
BILLING_TOTAL_DA_INTER (Release 4.5)
BILLING_TOTAL_DA_INTL (Release 4.5)
BILLING_TOTAL_INTL_OPR (Release 4.5)
BILLING_TOTAL_INTL_WZ1 (Release 4.5)
BILLING_TOTAL_LB_TEST (Release 4.5)
BILLING_TOTAL_NAT_OPR (Release 4.5)
BILLING_TOTAL_RAILWAYS (Release 4.5)
BILLING_TOTAL_SVC_CODE (Release 4.5)
BILLING_TOTAL_MOBILE (Release 4.5)
BILLING_TOTAL_UAN (Release 4.5)
CALLTYPE_500
CALLTYPE_700
CALLTYPE_900
CALLTYPE_976
CALLTYPE_AMBULANCE

CALLTYPE_ATTENDANT
CALLTYPE_BLV
CALLTYPE_BUSINESS
CALLTYPE_CARRIER_OPERATOR
CALLTYPE_CUT_THRU
CALLTYPE_DA
CALLTYPE_DA_TOLL
CALLTYPE_EMG
CALLTYPE_EXTENSION
CALLTYPE_FIRE
CALLTYPE_INFO
CALLTYPE_INTERLATA
CALLTYPE_INTL
CALLTYPE_INVALID
CALLTYPE_LOCAL
CALLTYPE_LRN
CALLTYPE_NAS
CALLTYPE_NATIONAL
CALLTYPE_NON_EMG
CALLTYPE_NONE
CALLTYPE_OPERATOR
CALLTYPE_OPERATOR_ASSISTED
CALLTYPE_PCS
CALLTYPE_POLICE
CALLTYPE_PREMIUM
CALLTYPE_RELAY
CALLTYPE_REPAIR
CALLTYPE_SPEED_DIAL
CALLTYPE_TANDEM
CALLTYPE_TEST_CALL
CALLTYPE_TIME
CALLTYPE_TOLL
CALLTYPE_TOLL_FREE
CALLTYPE_TRAFFIC
CALLTYPE_TW
CALLTYPE_VACANT
CALLTYPE_WEATHER

Measurement Call Processing Summary

The Measurement Call Processing Summary (measurement-callp-summary) table provides a summary report of call processing statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-CALLP-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-callp-summary;  
report measurement-callp-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27  
06:30:00; call-agent-id=CA146;output-type=csv;  
clear measurement-callp-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description

CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. ID of the associated Call Agent. VARCHAR(8): 1–8 ASCII characters in the format CAnnn or cannn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-4 for permitted values.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language

START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Table 11-4 lists the values for the Measurement Call Processing Summary Display token.

Table 11-4 Measurement Call Processing Summary Display Token Values

TIMESTAMP
NODENAME
CONDITION
BCM_CALL_SUCC
BCM_CAS_CALL_SUCCBCM_CAS_CALL_A BAND
BCM_CAS_CAS_CALL
BCM_CAS_H323_CALLS
BCM_CAS_ISDN_CALL
BCM_CAS_MGCP_CALL
BCM_CAS_ORIG_ATTMP
BCM_CAS_ORIG_FAIL
BCM_CAS_SIP_CALL
BCM_CAS_SS7_CALL
BCM_CAS_TERM_ATTMP
BCM_CAS_TERM_FAIL
BCM_EMGNCY_ATTMP
BCM_EMGNCY_CALL_ABAND
BCM_EMGNCY_CALL_SUCC
BCM_EMGNCY_FAIL
BCM_H323_CALLS_ABANDON
BCM_H323_CALLS_SUCCESS
BCM_H323_CAS_CALLSBCM_H323_H323_C ALLS
BCM_H323_ISDN_CALLS
BCM_H323_MGCP_CALLS
BCM_H323_ORIG_ATTEMPTS
BCM_H323_ORIG_FAILURES

BCM_H323_SIP_CALLS
BCM_H323_SS7_CALLS
BCM_H323_TERM_ATTEMPTS
BCM_H323_TERM_FAILURES
BCM_INTERLA_ATTMP
BCM_INTERLA_CALL_ABAND
BCM_INTERLA_FAILBCM_INTERL_CALL_SUCC
BCM_INTL_ATTMP
BCM_INTL_CALL_ABAND
BCM_INTL_CALL_SUCC
BCM_INTL_FAIL
BCM_INTRAL_CALL_SUCC
BCM_INTRALA_ATTMP
BCM_INTRALA_CALL_ABAND
BCM_INTRALA_FAIL
BCM_ISDN_CALL_ABAND
BCM_ISDN_CALL_SUCC
BCM_ISDN_CAS_CALL
BCM_ISDN_H323_CALLS
BCM_ISDN_ISDN_CALL
BCM_ISDN_MGCP_CALL
BCM_ISDN_ORIG_ATTMP
BCM_ISDN_ORIG_FAIL
BCM_ISDN_SIP_CALL
BCM_ISDN_SS7_CALL
BCM_ISDN_TERM_ATTMP
BCM_ISDN_TERM_FAIL
BCM_LOCAL_ATTMP
BCM_LOCAL_CALL_ABAND
BCM_LOCAL_CALL_SUCC
BCM_LOCAL_FAIL
BCM_MGCP_CALL_ABAND
BCM_MGCP_CALL_SUCC
BCM_MGCP_CAS_CALL
BCM_MGCP_H323_CALLS
BCM_MGCP_ISDN_CALL
BCM_MGCP_MGCP_CALL
BCM_MGCP_ORIG_ATTMP

BCM_MGCP_ORIG_FAIL
BCM_MGCP_SIP_CALL
BCM_MGCP_SS7_CALL
BCM_MGCP_TERM_ATTMP
BCM_MGCP_TERM_FAIL
BCM_ORIG_ATTMP
BCM_ORIG_FAIL
BCM_SIP_CALL_ABAND
BCM_SIP_CALL_SUCC
BCM_SIP_CAS_CALL
BCM_SIP_H323_CALLS
BCM_SIP_ISDN_CALL
BCM_SIP_MGCP_CALL
BCM_SIP_ORIG_ATTMP
BCM_SIP_ORIG_FAIL
BCM_SIP_SIP_CALL
BCM_SIP_SS7_CALL
BCM_SIP_TERM_ATTMP
BCM_SIP_TERM_FAIL
BCM_SS7_CALL_ABAND
BCM_SS7_CALL_SUCC
BCM_SS7_CAS_CALL
BCM_SS7_H323_CALLS
BCM_SS7_ISDN_CALL
BCM_SS7_MGCP_CALL
BCM_SS7_ORIG_ATTMP
BCM_SS7_ORIG_FAIL
BCM_SS7_SIP_CALL
BCM_SS7_SS7_CALL
BCM_SS7_TERM_ATTMP
BCM_SS7_TERM_FAIL
BCM_TERM_ATTMP
BCM_TERM_FAIL
BCM_TOLL_FREE_ATTMP
BCM_TOLL_FREE_CALL_ABAND
BCM_TOLL_FREE_CALL_SUCCBCM_CALL _ABAND
BCM_TOLL_FREE_FAIL
BCM_TPM_NAS_ADMIN_REBOOT

BCM_TPM_NAS_ADMIN_RESET	
BCM_TPM_NAS_AUTH_FAIL	
BCM_TPM_NAS_AUTH_SUCC	
BCM_TPM_NAS_CALLBACK	
BCM_TPM_NAS_CLD_UNACC	
BCM_TPM_NAS_CLG_UNACC	
BCM_TPM_NAS_HOST_REQUEST	
BCM_TPM_NAS_IDLE_TIMEOUT	
BCM_TPM_NAS_ISP_PORT_LIMIT	
BCM_TPM_NAS_LOST_CARRIER	
BCM_TPM_NAS_LOST_SERVICE	
BCM_TPM_NAS_NAS_ERROR	
BCM_TPM_NAS_NAS_REBOOT	
BCM_TPM_NAS_NAS_REQUEST	
BCM_TPM_NAS_NO_MODEMS	
BCM_TPM_NAS_OP_FAIL	
BCM_TPM_NAS_PORT_ERROR	
BCM_TPM_NAS_PORT_PREEMPTED	
BCM_TPM_NAS_PORT_SUSPENDED	
BCM_TPM_NAS_PORT_UNNEEDED	
BCM_TPM_NAS_SERVICE_UNAVAIL	
BCM_TPM_NAS_SESSION_TIMEOUT	
BCM_TPM_NAS_USER_ERROR	
BCM_TPM_NAS_USER_REQUEST	
CALLP_LB_TEST_SUCC	(Release 4.5)
CALLP_NCT_TEST_SUCC	(Release 4.5)
CALLP_NCT_TEST_FAIL	(Release 4.5)
CALLP_NLB_TEST_SUCC	(Release 4.5)
CALLP_NLB_TEST_FAIL	(Release 4.5)
CALLP_TEST_ROUTE_SUCC	(Release 4.5)
CALLP_TOTAL_TDISC_ORIG_ATTMP	(Release 4.5)
CALLP_T38_FAX_MEDIA_SETUP_SUCC	(Release 4.5)
CALLP_T38_FAX_MEDIA_SETUP_FAIL	(Release 4.5)

Measurement Call Tools Summary (Release 4.4.1)

The Measurement Call Tools Summary (measurement-call-tools-summary) table collects call tools statistics. Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-CALL-TOOLS-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-call-tools-summary;
report measurement-call-tools-summary start-time=2002-03-27 10:00:00; end-time=2002-03-27
12:00:00; call-agent-id=CA146; output=call-tools-report; output-type=csv;
clear measurement-call-tools-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description

CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. ID of the associated Call Agent. VARCHAR(8): 1–8 ASCII characters in the format CAnnn or cannn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. Permitted values are: STIMESTAMP NODENAME CONDITION TOOLS_TRUNK_TRANS_ATTMP TOOLS_TRUNK_TRANS_SUCC TOOLS_LINE_TRANS_ATTMP TOOLS_LINE_TRANS_SUCC
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.

OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Measurement Dynamic QOS Summary

The Measurement Dynamic Quality of Service (QOS) Summary (measurement-dqos-summary) table requests a summary report of quality-of-service-related statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-DQOS-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-dqos-summary;
report measurement-dqos-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; call-agent-id=CA146;
clear measurement-dqos-summary call-agent-id=CA146;
```



Caution

The clear command clears *all* current collecting measurement values for the specified Call Agent. There will not be any announcement data to report until the next interval.

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description	CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. ID of the associated Call Agent. VARCHAR(8): 1–8 ASCII characters in the format CAnnn or cannn.
	DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. Permitted values are: TIMESTAMP NODENAME CONDITION DQOS_GATE_COMMIT—The number of successfully committed DQOS gates of all types on the reporting CMTS. DQOS_GATESET_ATTMP—The number of DQOS gate set attempts of all types on the reporting CMTS. DQOS_GATESET_SUCC—The number of successful DQOS gate set attempts of all types on the reporting CMTS.
	END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
	INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
	OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
	START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
	SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Measurement Event Messaging Summary

The Measurement Event Messaging Summary (measurement-em-summary) table requests a summary report of billing event-related statistics for a specified Feature Server that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-EM-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-em-summary;  
report measurement-em-summary start-time=2003-03-27 06:00:00;end-time=2003-03-27 06:30:00;  
call-agent-id=CA146;output-type=csv;  
clear measurement-em-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): feature-server-id

Syntax Description

CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. ID of the associated Call Agent. VARCHAR(8): 1–8 ASCII characters in the format CAnnn or cannn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. Permitted values are: TIMESTAMP NODENAME CONDITION BILLING_EM_ACKED—The number of EMs acknowledged by the RKS. BILLING_EM_LOGGED—The number of EMs written to disk but not sent to any RKS. BILLING_EM_RETRANS—The number of event messages that were transmitted to an alternate RKS due to the lack of a response from a previously tried RKS, excluding retries. The counter is incremented when an event message is first sent to an alternate RKS. Any retries that occur at the RADIUS stack level (as provided in the radius-profile table) will not be included in this count.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.

INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Measurement H323 Summary

The Measurement H323 Summary (measurement-h323-summary) table requests a summary report of H.323-related statistics for a specified Call Agent that occur during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-H323-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-h323-summary;
report measurement-h323-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; call-agent-id=CA146;output-type=csv;
clear measurement-h323-summary call-agent-id=ca001;
```



Note

The clear command clears all current collecting measurement values for the specified Call Agent. There will not be any announcement data to report until the next interval.

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Other Rules: None.

Syntax Description

CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. VARCHAR(8): 1–8 ASCII characters in the format CAnnn or cannn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-5 for permitted values.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

[Table 11-5](#) lists the values for the Measurement H.323 Summary Display token.

Table 11-5 Measurement H.323 Summary Display Token Values

TIMESTAMP
NODENAME
CONDITION
H323_ALERT_RX

H323_ALERT_TX
H323_ARJ_RX
H323_ARJ_TX
H323_ARQ_RX
H323_ARQ_TX
H323_BCF_RX
H323_BCF_TX
H323_BRJ_RX
H323_BRJ_TX
H323_BRQ_RX
H323_BRQ_TX
H323_CALL_PROCEEDING_FAIL
H323_CALL_PROCEEDING_RX
H323_CALL_PROCEEDING_TX
H323_CONNECT_FAIL
H323_DCF_RX
H323_DCF_TX
H323_DRJ_RX
H323_DRJ_TX
H323_DRQ_RX
H323_DRQ_TX
H323_FACILITY_FAIL
H323_FACILITY_RX
H323_FACILITY_TX
H323_GCF_RX
H323_GCF_TX
H323_GRJ_RX
H323_GRJ_TX
H323_GRQ_RX
H323_GRQ_TX
H323_IN_PROGRESS_FAIL
H323_IN_PROGRESS_RX
H323_IN_PROGRESS_TX
H323_INFORMATION_FAIL
H323_INFORMATION_RX
H323_INFORMATION_TX
H323_NOTIFY_FAIL
H323_NOTIFY_RX

H323_NOTIFY_TX
H323_PASSTHROU_FAIL
H323_PASSTHROU_RX
H323_PASSTHROU_TX
H323_RAC_RX
H323_RAC_TX
H323_RAI_RX
H323_RAI_TX
H323_RCF_RX
H323_RCF_TX
H323_REJECT_FAIL
H323_REJECT_RX
H323_REJECT_TX
H323_RELEASE_COMPLETE_FAIL
H323_RELEASE_COMPLETE_RX
H323_RELEASE_COMPLETE_TX
H323_RIP_RX
H323_RIP_TX
H323_RRJ_RX
H323_RRJ_TX
H323_RRQ_RX
H323_RRQ_TX
H323_SETUP_CONFIRM_RX
H323_SETUP_CONFIRM_TX
H323_SETUP_FAIL
H323_SETUP_RX
H323_SETUP_TX
H323_UCF_RX
H323_UCF_TX
H323_URJ_RX
H323_URJ_TX
H323_URQ_RX
H323_URQ_TX
H323_USER_INFO_FAIL
H323_USER_INFO_RX
H323_USER_INFO_TX

Measurement INAP Summary



Note

This table is obsoleted in Release 4.5.

The Measurement Intelligent Network Application Part (INAP) Summary (measurement-inap-summary) table requests a summary report of INAP-related statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-INAP-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-inap-summary;
report measurement-inap-summary start-time=2001-03-27 06:00:00; end-time=2001-03-27
06:30:00; call-agent-id=CA146;output-type=csv;
clear measurement-inap-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description

CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. ID of the associated Call Agent. VARCHAR(8): 1–8 ASCII characters in the format CAnnn or cannn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-6 for permitted values.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.

OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Table 11-6 lists the values for the Measurement INAP Summary Display token.

Table 11-6 Measurement INAP Summary Display Token Values

INAP_CANCEL_RX	Obsolete in Release 4.5.
INAP_CANCEL_TX	Obsolete in Release 4.5.
INAP_DATABASE_ERR_RX	Obsolete in Release 4.5.
INAP_DATABASE_ERR_TX	Obsolete in Release 4.5.
INAP_ETC_FAIL_RX	Obsolete in Release 4.5.
INAP_ETC_FAIL_TX	Obsolete in Release 4.5.
INAP_IMPROP_CALLER_RSP_RX	Obsolete in Release 4.5.
INAP_IMPROP_CALLER_RSP_TX	Obsolete in Release 4.5.
INAP_INFO_KEY_ERR_RX	Obsolete in Release 4.5.
INAP_INFO_KEY_ERR_TX	Obsolete in Release 4.5.
INAP_MISSING_CUST_REC_RX	Obsolete in Release 4.5.
INAP_MISSING_CUST_REC_TX	Obsolete in Release 4.5.
INAP_MISSING_PARM_RX	Obsolete in Release 4.5.
INAP_MISSING_PARM_TX	Obsolete in Release 4.5.
INAP_NUM_CAPAB_FAIL	Obsolete in Release 4.5.
INAP_NUM_CHANNEL_BUSY	Obsolete in Release 4.5.
INAP_NUM_RSRC_NOT_AVAIL	Obsolete in Release 4.5.
INAP_NUM_RSRC_NOT_SUPP	Obsolete in Release 4.5.
INAP_NUM_TASK_REFUSED	Obsolete in Release 4.5.
INAP_NUM_INVALID_CALLER_RSP	Obsolete in Release 4.5.
INAP_NUM_IP_TMO	Obsolete in Release 4.5.
INAP_NUM_SUPPL_SVC_INVOKE	Obsolete in Release 4.5.
INAP_NUM_SEND_RSCR_CANCEL	Obsolete in Release 4.5.

INAP_NUM_TEMP_FAIL	Obsolete in Release 4.5.
INAP_NUM_UNAUTH_REQ	Obsolete in Release 4.5.
INAP_NUM_UNAUTH_DEST	Obsolete in Release 4.5.
INAP_NUM_PROCEED_ERR	Obsolete in Release 4.5.
INAP_PARM_OUT_OF_RANGE_RX	Obsolete in Release 4.5.
INAP_PARM_OUT_OF_RANGE_TX	Obsolete in Release 4.5.
INAP_REFERRAL_RX	Obsolete in Release 4.5.
INAP_REFERRAL_TX	Obsolete in Release 4.5.
INAP_REPORT_ERR_RX	Obsolete in Release 4.5.
INAP_REPORT_ERR_TX	Obsolete in Release 4.5.
INAP_REQ_INFO_RX	Obsolete in Release 4.5.
INAP_REQ_INFO_TX	Obsolete in Release 4.5.
INAP_SYS_FAIL_RX	Obsolete in Release 4.5.
INAP_SYS_FAIL_TX	Obsolete in Release 4.5.
INAP_TASK_REFUSED_RX	Obsolete in Release 4.5.
INAP_TASK_REFUSED_TX	Obsolete in Release 4.5.
INAP_UNAVIL_RSRC_RX	Obsolete in Release 4.5.
INAP_UNAVIL_RSRC_TX	Obsolete in Release 4.5.
INAP_UNEXPECT_COMP_SEQ_RX	Obsolete in Release 4.5.
INAP_UNEXPECT_COMP_SEQ_TX	Obsolete in Release 4.5.
INAP_UNEXPECT_DATA_VAL_RX	Obsolete in Release 4.5.
INAP_UNEXPECT_DATA_VAL_TX	Obsolete in Release 4.5.
INAP_UNEXPECT_PARM_RX	Obsolete in Release 4.5.
INAP_UNEXPECT_PARM_TX	Obsolete in Release 4.5.
INAP_UNKNOWN_LEG_ID_RX	Obsolete in Release 4.5.
INAP_UNKNOWN_LEG_ID_TX	Obsolete in Release 4.5.
INAP_UNKNOWN_RSRC_RX	Obsolete in Release 4.5.
INAP_UNKNOWN_RSRC_TX	Obsolete in Release 4.5.
INAP_UNRECOG_INVOKE_ID_RX	Obsolete in Release 4.5.
INAP_UNRECOG_INVOKE_ID_TX	Obsolete in Release 4.5.

Measurement ISDN Summary

The Measurement ISDN Summary (measurement-isdn-summary) table requests a summary report of ISDN-related statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-ISDN-SUMMARY

Table Containment Area: OAMP

Command Types Report, show and clear

Examples

```
show measurement-isdn-summary;
report measurement-isdn-summary start-time=2003-03-27 06:00:00;end-time=2003-03-27
06:30:00; call-agent-id=CA146; output-type=csv;
clear measurement-isdn-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description

CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. ID of the associated Call Agent. VARCHAR(8): 1–8 ASCII characters in the format CAnnn or cannn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-7 for permitted values.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language

START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Table 11-7 lists the values for the Measurement ISDN Summary Display token.

Table 11-7 Measurement ISDN Summary Display Token Values

TIMESTAMP
NODENAME
CONDITION
ISDN_ALERTING_RX
ISDN_ALERTING_TX
ISDN_CALL_PROCEED_RX
ISDN_CALL_PROCEED_TX
ISDN_CONG_CNTL_RX (Release 4.4.0)
ISDN_CONG_CNTL_TX (Release 4.4.0)
ISDN_CONNECT_ACK_RX
ISDN_CONNECT_ACK_TX
ISDN_CONNECT_RX
ISDN_CONNECT_TX
ISDN_DISCONNECT_RX
ISDN_DISCONNECT_TX
ISDN_INFORMATION_RX
ISDN_INFORMATION_TX
ISDN_NOTIFY_RX
ISDN_NOTIFY_TX
ISDN_NUM_OF_SRVC_ACK_RX
ISDN_NUM_OF_SRVC_ACK_TX
ISDN_NUM_OF_SRVC_RX
ISDN_NUM_OF_SRVC_TX
ISDN_PROGRESS_RX
ISDN_PROGRESS_TX
ISDN_RELEASE_COMPLETE_RX

ISDN_RELEASE_COMPLETE_TX	
ISDN_RELEASE_RX	
ISDN_RELEASE_TX	
ISDN_RESTART_ACK_RX	
ISDN_RESTART_ACK_TX	
ISDN_RESTART_RX	
ISDN_RESTART_TX	
ISDN_RESUME_ACK_RX	(Release 4.4.0)
ISDN_RESUME_ACK_TX	(Release 4.4.0)
ISDN_RESUME_REJ_RX	(Release 4.4.0)
ISDN_RESUME_REJ_TX	(Release 4.4.0)
ISDN_RESUME_RX	(Release 4.4.0)
ISDN_RESUME_TX	(Release 4.4.0)
ISDN_SEGMENT_RX	(Release 4.4.0)
ISDN_SEGMENT_TX	(Release 4.4.0)
ISDN_SETUP_ACK_RX	
ISDN_SETUP_ACK_TX	
ISDN_SETUP_RX	
ISDN_SETUP_TX	
ISDN_STATUS_ENQUIRY_RX	
ISDN_STATUS_ENQUIRY_TX	
ISDN_STATUS_RX	
ISDN_STATUS_TX	
ISDN_SUSPEND_ACK_RX	
ISDN_SUSPEND_ACK_TX RX	(Release 4.4.0)
ISDN_SUSPEND_REJ_RX	(Release 4.4.0)
ISDN_SUSPEND_REJ_TX	(Release 4.4.0)
ISDN_SUSPEND_RX	(Release 4.4.0)
ISDN_SUSPEND_TX	(Release 4.4.0)
ISDN_USER_INFO_RX	(Release 4.4.0)
ISDN_USER_INFO_TX	(Release 4.4.0)
TIMESTAMP	
NODENAME	
CONDITION	

Measurement ISUP Summary

The Measurement ISUP Summary (measurement-isup-summary) table requests a summary report of ISDN user part (ISUP)-related statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-ISUP-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-isup-summary;
report measurement-isup-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; call-agent-id=CA146;
clear measurement-isup-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description

CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. ID of the associated Call Agent. VARCHAR(8): 1–8 ASCII characters in the format CAnnn or cannn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-8 for permitted values. Note SGA counters are renamed to ISUP in Release 4.5.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language

START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Table 11-8 lists the values for the Measurement ISUP Summary Display token.

Table 11-8 Measurement ISUP Summary Display Token Values

TIMESTAMP	
NODENAME	
CONDITION	
TRKGRP-ID	
ISUP_ABNORMAL_REL_RX	(Release 4.5)
ISUP_ABNORMAL_REL_TX	(Release 4.5)
ISUP_ACM_RX	(Release 4.5)
ISUP_ACM_TX	(Release 4.5)
ISUP_ANM_RX	(Release 4.5)
ISUP_ANM_TX	(Release 4.5)
ISUP_ARR_RX	(Release 4.5)
ISUP_ARR_TX	(Release 4.5)
ISUP_BLA_RX	(Release 4.5)
ISUP_BLA_TX	(Release 4.5)
ISUP_BLO_RX	(Release 4.5)
ISUP_BLO_TX	(Release 4.5)
ISUP_CCL_RX	(Release 4.5)
ISUP_CCL_TX	(Release 4.5)
ISUP_CCR_RX	(Release 4.5)
ISUP_CCR_TX	(Release 4.5)
ISUP_CFN_RX	(Release 4.5)
ISUP_CFN_TX	(Release 4.5)
ISUP_CGB_RX	(Release 4.5)
ISUP_CGB_TX	(Release 4.5)
ISUP_CGBA_RX	(Release 4.5)
ISUP_CGBA_TX	(Release 4.5)

ISUP_CGU_RX	(Release 4.5)
ISUP_CGU_TX	(Release 4.5)
ISUP_CGUA_RX	(Release 4.5)
ISUP_CGUA_TX	(Release 4.5)
ISUP_CON_RX	(Release 4.5)
ISUP_CON_TX	(Release 4.5)
ISUP_COT_RX	(Release 4.5)
ISUP_COT_TX	(Release 4.5)
ISUP_CPG_RX	(Release 4.5)
ISUP_CPG_TX	(Release 4.5)
ISUP_CQM_RX	(Release 4.5)
ISUP_CQM_TX	(Release 4.5)
ISUP_CQR_RX	(Release 4.5)
ISUP_CQR_TX	(Release 4.5)
ISUP_CRA_RX	(Release 4.5)
ISUP_CRA_TX	(Release 4.5)
ISUP_CRG_RX	(Release 4.5)
ISUP_CRG_TX	(Release 4.5)
ISUP_CRM_RX	(Release 4.5)
ISUP_CRM_TX	(Release 4.5)
ISUP_CVR_RX	(Release 4.5)
ISUP_CVR_TX	(Release 4.5)
ISUP_CVT_RX	(Release 4.5)
ISUP_CVT_TX	(Release 4.5)
ISUP_EXM_RX	(Release 4.5)
ISUP_EXM_TX	(Release 4.5)
ISUP_FAA_RX	(Release 4.5)
ISUP_FAA_TX	(Release 4.5)
ISUP_FAC_RX	(Release 4.5)
ISUP_FAC_TX	(Release 4.5)
ISUP_FAR_RX	(Release 4.5)
ISUP_FAR_TX	(Release 4.5)
ISUP_FOT_RX	(Release 4.5)
ISUP_FOT_TX	(Release 4.5)
ISUP_FRJ_RX	(Release 4.5)
ISUP_FRJ_TX	(Release 4.5)
ISUP_FWT_RX	(Release 4.5)
ISUP_FWT_TX	(Release 4.5)

ISUP_GRA_RX	(Release 4.5)
ISUP_GRA_TX	(Release 4.5)
ISUP_GRS_RX	(Release 4.5)
ISUP_GRS_TX	(Release 4.5)
ISUP_IAM_RX	(Release 4.5)
ISUP_IAM_TX	(Release 4.5)
ISUP_IDR_RX	(Release 4.5)
ISUP_IDR_TX	(Release 4.5)
ISUP_INF_RX	(Release 4.5)
ISUP_INF_TX	(Release 4.5)
ISUP_INR_RX	(Release 4.5)
ISUP_INR_TX	(Release 4.5)
ISUP_IRS_RX	(Release 4.5)
ISUP_IRS_TX	(Release 4.5)
ISUP_ITX_RX	(Release 4.5.1)
ISUP_ITX_TX	(Release 4.5.1)
ISUP_LPA_RX	(Release 4.5)
ISUP_LPA_TX	(Release 4.5)
ISUP_LPM_RX	(Release 4.5)
ISUP_LPM_TX	(Release 4.5)
ISUP_MSG_RX	(Release 4.5)
ISUP_MSG_TX	(Release 4.5)
ISUP_NRM_RX	(Release 4.5)
ISUP_NRM_TX	(Release 4.5)
ISUP_OLM_RX	(Release 4.5)
ISUP_OLM_TX	(Release 4.5)
ISUP_OPR_RX	(Release 4.5)
ISUP_OPR_TX	(Release 4.5)
ISUP_PAM_RX	(Release 4.5)
ISUP_PAM_TX	(Release 4.5)
ISUP_PRI_RX	(Release 4.5)
ISUP_PRI_TX	(Release 4.5)
ISUP_REL_RX	(Release 4.5)
ISUP_REL_TX	(Release 4.5)
ISUP_RES_RX	(Release 4.5)
ISUP_RES_TX	(Release 4.5)
ISUP_RLC_RX	(Release 4.5)
ISUP_RLC_TX	(Release 4.5)

ISUP_RSC_RX	(Release 4.5)
ISUP_RSC_TX	(Release 4.5)
ISUP_SAM_RX	(Release 4.5)
ISUP_SAM_TX	(Release 4.5)
ISUP_SGM_RX	(Release 4.5)
ISUP_SGM_TX	(Release 4.5)
ISUP_SUS_RX	(Release 4.5)
ISUP_SUS_TX	(Release 4.5)
ISUP_UBA_RX	(Release 4.5)
ISUP_UBA_TX	(Release 4.5)
ISUP_UBL_RX	(Release 4.5)
ISUP_UBL_TX	(Release 4.5)
ISUP_UCIC_RX	(Release 4.5)
ISUP_UCIC_TX	(Release 4.5)
ISUP_UNEXPECT_MSG_RX	(Release 4.5)
ISUP_UNRECOG_MSG_RX	(Release 4.5)
ISUP_UPA_RX	(Release 4.5)
ISUP_UPA_TX	(Release 4.5)
ISUP_UPT_RX	(Release 4.5)
ISUP_UPT_TX	(Release 4.5)
ISUP_USR_RX	(Release 4.5)
ISUP_USR_TX	(Release 4.5)
MEAS_SGA_ITX_RX	(France) (Release 4.5.1)
MEAS_SGA_ITX_TX	(France) (Release 4.5.1)
MEAS_SGA_TXA_RX	(France) (Release 4.5.1)
MEAS_SGA_TXA_TX	(France) (Release 4.5.1)
S7A_TPM_ACM_RX	
S7A_TPM_ACM_TX	
S7A_TPM_ANM_RX	
S7A_TPM_ANM_TX	
S7A_TPM_BLA_RX	
S7A_TPM_BLA_TX	
S7A_TPM_BLO_RX	
S7A_TPM_BLO_TX	
S7A_TPM_CGB_RX	
S7A_TPM_CGB_TX	
S7A_TPM_CGBA_RX	
S7A_TPM_CGBA_TX	

S7A_TPM_CGU_RX	
S7A_TPM_CGU_TX	
S7A_TPM_CGUA_RX	
S7A_TPM_CGUA_TX	
S7A_TPM_CPG_RX	
S7A_TPM_CPG_TX	
S7A_TPM_CVR_RX	
S7A_TPM_CVR_TX	
S7A_TPM_CVT_RX	
S7A_TPM_CVT_TX	
S7A_TPM_GRA_RX	
S7A_TPM_GRA_TX	
S7A_TPM_GRS_RX	
S7A_TPM_GRS_TX	
S7A_TPM_IAM_RX	
S7A_TPM_IAM_TX	
S7A_TPM_MSU_RX	
S7A_TPM_MSU_TX	
S7A_TPM_MSU_TXRX	
S7A_TPM_MSU8_RETX	
S7A_TPM_MSU8_RX	
S7A_TPM_MSU8_TX	
S7A_TPM_MSU8_TXRX	
S7A_TPM_REL_RX	
S7A_TPM_REL_TX	
S7A_TPM_RLC_RX	
S7A_TPM_RLC_TX	
S7A_TPM_RSC_RX	
S7A_TPM_RSC_TX	
S7A_TPM_UBA_RX	
S7A_TPM_UBA_TX	
S7A_TPM_UBL_RX	
S7A_TPM_UBL_TX	
SGA_ABNORMAL_REL_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_ABNORMAL_REL_RX	(ITU-Mexico) (Release 4.5.1)
SGA_ABNORMAL_REL_RX	(Thailand) (Release 4.2)
SGA_ABNORMAL_REL_RX	(ITU-Hong Kong) Release 4.2

SGA_ABNORMAL_REL_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_ABNORMAL_REL_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_ABNORMAL_REL_TX	(ITU-Mexico) (Release 4.5.1)
SGA_ABNORMAL_REL_TX	(Thailand) (Release 4.2)
SGA_ABNORMAL_REL_TX	(ITU-Hong Kong) Release 4.2
SGA_ABNORMAL_REL_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_ACM_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_ACM_RX	(Thailand) (Release 4.2)
SGA_ACM_RX	(ITU-Hong Kong) Release 4.2
SGA_ACM_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_ACM_RX	(ITU-Mexico) (Release 4.5.1)
SGA_ACM_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_ACM_TX	(Thailand) (Release 4.2)
SGA_ACM_TX	(ITU-Hong Kong) Release 4.2
SGA_ACM_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_ACM_TX	(ITU-Mexico) (Release 4.5.1)
SGA_ANM_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_ANM_RX	(Thailand) (Release 4.2)
SGA_ANM_RX	(ITU-Hong Kong) Release 4.2
SGA_ANM_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_ANM_RX	(ITU-Mexico) (Release 4.5.1)
SGA_ANM_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_ANM_TX	(Thailand) (Release 4.2)
SGA_ANM_TX	(ITU-Hong Kong) Release 4.2
SGA_ANM_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_ANM_TX	(ITU-Mexico) (Release 4.5.1)
SGA_ARR_RX	(Thailand) (Release 4.2)
SGA_ARR_TX	(Thailand) (Release 4.2)
SGA_BLA_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_BLA_RX	(Thailand) (Release 4.2)

SGA_BLA_RX	(ITU-Hong Kong) Release 4.2
SGA_BLA_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_BLA_RX	(ITU-Mexico) (Release 4.5.1)
SGA_BLA_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_BLA_TX	(Thailand) (Release 4.2)
SGA_BLA_TX	(ITU-Hong Kong) Release 4.2
SGA_BLA_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_BLA_TX	(ITU-Mexico) (Release 4.5.1)
SGA_BLO_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_BLO_RX	(Thailand) (Release 4.2)
SGA_BLO_RX	(ITU-Hong Kong) Release 4.2
SGA_BLO_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_BLO_RX	(ITU-Mexico) (Release 4.5.1)
SGA_BLO_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_BLO_TX	(Thailand) (Release 4.2)
SGA_BLO_TX	(ITU-Hong Kong) Release 4.2
SGA_BLO_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_BLO_TX	(ITU-Mexico) (Release 4.5.1)
SGA_CCL_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CCL_RX	(ITU-Mexico) (Release 4.5.1)
SGA_CCL_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CCL_TX	(ITU-Mexico) (Release 4.5.1)
SGA_CCR_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CCR_RX	(Thailand) (Release 4.2)
SGA_CCR_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CCR_RX	(ITU-Mexico) (Release 4.5.1)
SGA_CCR_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CCR_TX	(Thailand) (Release 4.2)

SGA_CCR_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CCR_TX	(ITU-Mexico) (Release 4.5.1)
SGA_CFN_RX	(Thailand) (Release 4.2)
SGA_CFN_RX	(ITU-Hong Kong) Release 4.2
SGA_CFN_RX	(ITU-Mexico) (Release 4.5.1)
SGA_CFN_TX	(Thailand) (Release 4.2)
SGA_CFN_TX	(ITU-Hong Kong) Release 4.2
SGA_CFN_TX	(ITU-Mexico) (Release 4.5.1)
SGA_CGB_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CGB_RX	(Thailand) (Release 4.2)
SGA_CGB_RX	(ITU-Hong Kong) Release 4.2
SGA_CGB_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CGB_RX	(ITU-Mexico) (Release 4.5.1)
SGA_CGB_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CGB_TX	(Thailand) (Release 4.2)
SGA_CGB_TX	(ITU-Hong Kong) Release 4.2
SGA_CGB_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CGB_TX	(ITU-Mexico) (Release 4.5.1)
SGA_CGBA_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CGBA_RX	(Thailand) (Release 4.2)
SGA_CGBA_RX	(ITU-Hong Kong) Release 4.2
SGA_CGBA_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CGBA_RX	(ITU-Mexico) (Release 4.5.1)
SGA_CGBA_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CGBA_TX	(Thailand) (Release 4.2)
SGA_CGBA_TX	(ITU-Hong Kong) Release 4.2
SGA_CGBA_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CGBA_TX	(ITU-Mexico) (Release 4.5.1)
SGA_CGU_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CGU_RX	(Thailand) (Release 4.2)
SGA_CGU_RX	(ITU-Hong Kong) Release 4.2

SGA_CGU_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CGU_RX	(ITU-Mexico) (Release 4.5.1)
SGA_CGU_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CGU_TX	(Thailand) (Release 4.2)
SGA_CGU_TX	(ITU-Hong Kong) Release 4.2
SGA_CGU_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CGU_TX	(ITU-Mexico) (Release 4.5.1)
SGA_CGUA_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CGUA_RX	(ITU-Mexico) (Release 4.5.1)
SGA_CGUA_RX	(Thailand) (Release 4.2)
SGA_CGUA_RX	(ITU-Hong Kong) Release 4.2
SGA_CGUA_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CGUA_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CGUA_TX	(Thailand) (Release 4.2)
SGA_CGUA_TX	(ITU-Hong Kong) Release 4.2
SGA_CGUA_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CGUA_TX	(ITU-Mexico) (Release 4.5.1)
SGA_CON_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CON_RX	(Thailand) (Release 4.2)
SGA_CON_RX	(ITU-Hong Kong) Release 4.2
SGA_CON_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CON_RX	(ITU-Mexico) (Release 4.5.1)
SGA_CON_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CON_TX	(Thailand) (Release 4.2)
SGA_CON_TX	(ITU-Hong Kong) Release 4.2
SGA_CON_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CON_TX	(ITU-Mexico) (Release 4.5.1)
SGA_COT_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_COT_RX	(ITU-Mexico) (Release 4.5.1)
SGA_COT_RX	(Thailand) (Release 4.2)

SGA_COT_RX	(ITU-Hong Kong) Release 4.2
SGA_COT_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_COT_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_COT_TX	(ITU-Mexico) (Release 4.5.1)
SGA_COT_TX	(Thailand) (Release 4.2)
SGA_COT_TX	(ITU-Hong Kong) Release 4.2
SGA_COT_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CPG_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CPG_RX	(Thailand) (Release 4.2)
SGA_CPG_RX	(ITU-Hong Kong) Release 4.2
SGA_CPG_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CPG_RX	(ITU-Mexico) (Release 4.5.1)
SGA_CPG_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_CPG_TX	(Thailand) (Release 4.2)
SGA_CPG_TX	(ITU-Hong Kong) Release 4.2
SGA_CPG_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CPG_TX	(ITU-Mexico) (Release 4.5.1)
SGA_CQM_RX	(ITU-Mexico) (Release 4.5.1)
SGA_CQM_RX	(Thailand) (Release 4.2)
SGA_CQM_TX	(ITU-Mexico) (Release 4.5.1)
SGA_CQM_TX	(Thailand) (Release 4.2)
SGA_CQR_RX	(ITU-Mexico) (Release 4.5.1)
SGA_CQR_RX	(Thailand) (Release 4.2)
SGA_CQR_TX	(ITU-Mexico) (Release 4.5.1)
SGA_CQR_TX	(Thailand) (Release 4.2)
SGA_CRG_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_CRG_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_FAC_RX	(ITU-Hong Kong) Release 4.2
SGA_FAC_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_FAC_TX	(ITU-Hong Kong) Release 4.2
SGA_FAC_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_FAR_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_FAR_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_FRJ_RX	(ITU-Chile) (Release 4.4.0) (Not supported)

SGA_FRJ_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_FWT_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_FWT_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_GRA_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_GRA_RX	(ITU-Mexico) (Release 4.5.1)
SGA_GRA_RX	(Thailand) (Release 4.2)
SGA_GRA_RX	(ITU-Hong Kong) Release 4.2
SGA_GRA_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_GRA_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_GRA_TX	(ITU-Mexico) (Release 4.5.1)
SGA_GRA_TX	(Thailand) (Release 4.2)
SGA_GRA_TX	(ITU-Hong Kong) Release 4.2
SGA_GRA_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_GRS_RX	(ITU-Mexico) (Release 4.5.1)
SGA_GRS_RX	(Thailand) (Release 4.2)
SGA_GRS_RX	(ITU-Hong Kong) Release 4.2
SGA_GRS_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_GRS_TX	(ITU-Mexico) (Release 4.5.1)
SGA_GRS_TX	(Thailand) (Release 4.2)
SGA_GRS_TX	(ITU-Hong Kong) Release 4.2
SGA_GRS_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_IAM_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_IAM_RX	(ITU-Mexico) (Release 4.5.1)
SGA_IAM_RX	(Thailand) (Release 4.2)
SGA_IAM_RX	(ITU-Hong Kong) Release 4.2
SGA_IAM_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_IAM_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_IAM_TX	(ITU-Mexico) (Release 4.5.1)
SGA_IAM_TX	(Thailand) (Release 4.2)
SGA_IAM_TX	(ITU-Hong Kong) Release 4.2
SGA_IAM_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_IDR_RX	(ITU-Chile) (Release 4.4.0) (Not supported)

SGA_IDR_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_INF_RX	(ITU-Mexico) (Release 4.5.1)
SGA_INF_RX	(Thailand) (Release 4.2)
SGA_INF_RX	(ITU-Hong Kong) Release 4.2
SGA_INF_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_INF_TX	(ITU-Mexico) (Release 4.5.1)
SGA_INF_TX	(Thailand) (Release 4.2)
SGA_INF_TX	(ITU-Hong Kong) Release 4.2
SGA_INF_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_INR_RX	(ITU-Mexico) (Release 4.5.1)
SGA_INR_RX	(Thailand) (Release 4.2)
SGA_INR_RX	(ITU-Hong Kong) Release 4.2
SGA_INR_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_INR_TX	(ITU-Mexico) (Release 4.5.1)
SGA_INR_TX	(Thailand) (Release 4.2)
SGA_INR_TX	(ITU-Hong Kong) Release 4.2
SGA_INR_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_IRS_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_IRS_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_LPM_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_LPM_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_MSG_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_MSG_RX	(Thailand) (Release 4.2)
SGA_MSG_RX	(ITU-Hong Kong) Release 4.2
SGA_MSG_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_MSG_RX	(ITU-Mexico) (Release 4.5.1)
SGA_MSG_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_MSG_TX	(Thailand) (Release 4.2)
SGA_MSG_TX	(ITU-Hong Kong) Release 4.2
SGA_MSG_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_MSG_TX	(ITU-Mexico) (Release 4.5.1)
SGA_NRM_RX	(ITU-Hong Kong) Release 4.2
SGA_NRM_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_NRM_TX	(ITU-Hong Kong) Release 4.2
SGA_NRM_TX	(ITU-Chile) (Release 4.4.0) (Not supported)

SGA_OPR_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_OPR_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_PAM_RX	(ITU-Hong Kong) Release 4.2
SGA_PAM_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_PAM_TX	(ITU-Hong Kong) Release 4.2
SGA_PAM_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_PRI_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_PRI_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_REL_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_REL_RX	(ITU-Mexico) (Release 4.5.1)
SGA_REL_RX	(Thailand) (Release 4.2)
SGA_REL_RX	(ITU-Hong Kong) Release 4.2
SGA_REL_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_REL_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_REL_TX	(ITU-Mexico) (Release 4.5.1)
SGA_REL_TX	(Thailand) (Release 4.2)
SGA_REL_TX	(ITU-Hong Kong) Release 4.2
SGA_REL_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_RES_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_RES_RX	(ITU-Mexico) (Release 4.5.1)
SGA_RES_RX	(Thailand) (Release 4.2)
SGA_RES_RX	(ITU-Hong Kong) Release 4.2
SGA_RES_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_RES_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_RES_TX	(ITU-Mexico) (Release 4.5.1)
SGA_RES_TX	(Thailand) (Release 4.2)
SGA_RES_TX	(ITU-Hong Kong) Release 4.2
SGA_RES_TX	(ITU-Chile) (Release 4.4.0) (Not supported)

SGA_RLC_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_RLC_RX	(ITU-Mexico) (Release 4.5.1)
SGA_RLC_RX	(Thailand) (Release 4.2)
SGA_RLC_RX	(ITU-Hong Kong) Release 4.2
SGA_RLC_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_RLC_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_RLC_TX	(ITU-Mexico) (Release 4.5.1)
SGA_RLC_TX	(Thailand) (Release 4.2)
SGA_RLC_TX	(ITU-Hong Kong) Release 4.2
SGA_RLC_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_RSC_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_RSC_RX	(ITU-Mexico) (Release 4.5.1)
SGA_RSC_RX	(Thailand) (Release 4.2)
SGA_RSC_RX	(ITU-Hong Kong) Release 4.2
SGA_RSC_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_RSC_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_RSC_TX	(ITU-Mexico) (Release 4.5.1)
SGA_RSC_TX	(Thailand) (Release 4.2)
SGA_RSC_TX	(ITU-Hong Kong) Release 4.2
SGA_RSC_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_SAM_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_SAM_RX	(ITU-Mexico) (Release 4.5.1)
SGA_SAM_RX	(Thailand) (Release 4.2)
SGA_SAM_RX	(ITU-Hong Kong) Release 4.2
SGA_SAM_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_SAM_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_SAM_TX	(ITU-Mexico) (Release 4.5.1)
SGA_SAM_TX	(Thailand) (Release 4.2)
SGA_SAM_TX	(ITU-Hong Kong) Release 4.2
SGA_SAM_TX	(ITU-Chile) (Release 4.4.0) (Not supported)

SGA_SGM_RX	(ITU-Hong Kong) Release 4.2
SGA_SGM_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_SGM_TX	(ITU-Hong Kong) Release 4.2
SGA_SGM_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_SUS_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_SUS_RX	(ITU-Mexico) (Release 4.5.1)
SGA_SUS_RX	(Thailand) (Release 4.2)
SGA_SUS_RX	(ITU-Hong Kong) Release 4.2
SGA_SUS_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_SUS_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_SUS_TX	(ITU-Mexico) (Release 4.5.1)
SGA_SUS_TX	(Thailand) (Release 4.2)
SGA_SUS_TX	(ITU-Hong Kong) Release 4.2
SGA_SUS_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_UBA_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_UBA_RX	(ITU-Mexico) (Release 4.5.1)
SGA_UBA_RX	(Thailand) (Release 4.2)
SGA_UBA_RX	(ITU-Hong Kong) Release 4.2
SGA_UBA_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_UBA_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_UBA_TX	(ITU-Mexico) (Release 4.5.1)
SGA_UBA_TX	(Thailand) (Release 4.2)
SGA_UBA_TX	(ITU-Hong Kong) Release 4.2
SGA_UBA_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_UBL_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_UBL_RX	(ITU-Mexico) (Release 4.5.1)
SGA_UBL_RX	(Thailand) (Release 4.2)
SGA_UBL_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_UBL_TX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_UBL_TX	(ITU-Mexico) (Release 4.5.1)

SGA_UBL_TX	(Thailand) (Release 4.2)
SGA_UBL_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_UCIC_RX	(ITU-Mexico) (Release 4.5.1)
SGA_UCIC_RX	(Thailand) (Release 4.2)
SGA_UCIC_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_UCIC_TX	(ITU-Mexico) (Release 4.5.1)
SGA_UCIC_TX	(Thailand) (Release 4.2)
SGA_UCIC_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_UNEXPECT_MSG_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_UNEXPECT_MSG_RX	(ITU-Mexico) (Release 4.5.1)
SGA_UNEXPECT_MSG_RX	(Thailand) (Release 4.2)
SGA_UNEXPECT_MSG_RX	(ITU-Hong Kong) Release 4.2
SGA_UNEXPECT_MSG_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_UNRECOG_MSG_RX	(ITU-China) (ITU-Israel, Australia, ETSI: Release 4.4.0, 4.5) (Israel and Australia are not supported)
SGA_UNRECOG_MSG_RX	(ITU-Mexico) (Release 4.5.1)
SGA_UNRECOG_MSG_RX	(Thailand) (Release 4.2)
SGA_UNRECOG_MSG_RX	(ITU-Hong Kong) Release 4.2
SGA_UNRECOG_MSG_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_USR_RX	(ITU-Chile) (Release 4.4.0) (Not supported)
SGA_USR_TX	(ITU-Chile) (Release 4.4.0) (Not supported)
TIMESTAMP	
NODENAME	
CONDITION	
TIMESTAMP	
NODENAME	
CONDITION	
TIMESTAMP	
NODENAME	
CONDITION	

Measurement M3UA Summary

The Measurement M3UA Summary (measurement-m3ua-summary) table requests a summary report of M3UA-related statistics for all media gateways (MGWs) that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-M3UA-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-m3ua-summary;  
report measurement-m3ua-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27  
06:30:00; call-agent-id =CA146;  
clear measurement-m3ua-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description

CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. ID of the associated Call Agent. VARCHAR(8): 1–8 ASCII characters in the format CAnnn or cannn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. Permitted values are:
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language

START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Table 11-9 lists the values for the Measurement M3UA Summary Display token.

Table 11-9 Measurement M3UA Summary Display Token Values

TIMESTAMP
NODENAME
CONDITION
M3UA-SGP-ID
M3UA_ACTIVE_ACK_RX
M3UA_ACTIVE_TX
M3UA_ASSOC_FAIL
M3UA_BEAT_ACK_RX
M3UA_BEAT_ACK_TX
M3UA_BEAT_RX
M3UA_BEAT_TX
M3UA_DATA_BYTES_RX
M3UA_DATA_BYTES_TX
M3UA_DATA_TRANS_RX
M3UA_DATA_TRANS_TX
M3UA_DAUD_TX
M3UA_DAVA_RX
M3UA_DOWN_ACK_RX
M3UA_DOWN_TX
M3UA_DRST_RX
M3UA_DUNA_RX
M3UA_DUPU_RX
M3UA_ERR_RX
M3UA_ERR_TX
M3UA_INACTIVE_ACK_RX
M3UA_INACTIVE_TX

M3UA_INVALID_SCTP_SIGNALS
M3UA_MSG_CLASS_ERR
M3UA_MSG_LENGTH_ERR
M3UA_MSG_RX_OTHER_ERR
M3UA_MSG_TYPE_ERR
M3UA_NETWORK_APPEAR_ERR
M3UA_NO_MEMORY_ERR
M3UA_NOTIFY_TX
M3UA_NOTIFY_RX
M3UA_PARAM_FIELD_ERR
M3UA_PARAM_VALUE_ERR
M3UA_PROTOCOL_ERR
M3UA_ROUTING_CONTEXT_ERR
M3UA_SCON_TX
M3UA_SCON_RX
M3UA_SCTP_TX_FAIL
M3UA_SGP_ID
M3UA_SINCE_LAST_RESET_ASSOC
M3UA_STREAM_ID_ERR
M3UA_UNEXPECT_MSG_ERR
M3UA_UNEXPECT_PARAM_ERR
M3UA_UP_TX
M3UA_UP_ACK_RX
M3UA_VERSION_ERR

Measurement MGCP Signaling Adapter Summary

The Measurement MGCP Signaling Adapter Summary (measurement-mgcp-summary) table requests a summary report of Media Gateway Control Protocol (MGCP) signaling adapter-related statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-MGCP-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-mgcp-summary;
report measurement-mgcp-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; call-agent-id=CA146; output-type=csv;
```

**Caution**

```
clear measurement-mgcp-summary call-agent-id=CA146;
```

The clear command clears *all* current collecting measurement values for the specified Call Agent. There will not be any announcement data to report until the next interval.

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description	CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. ID of the associated Call Agent. VARCHAR(8): 1–8 ASCII characters in the format CAnnn or cannn.
	DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. Permitted values are: TIMESTAMP NODENAME CONDITION MGCP_AUEP_ACK_RX MGCP_AUEP_NACK_RX MGCP_AUEP_TX MGCP_AUCX_TX (Release 4.5) MGCP_AUCX_ACK_RX (Release 4.5) MGCP_AUCX_NACK_RX (Release 4.5) MGCP_CRCX_ACK_RX MGCP_CRCX_NACK_RX MGCP_CRCX_TX MGCP_DECODE_ERROR MGCP_DLCX_ACK_RX MGCP_DLCX_NACK_RX MGCP_DLCX_RX MGCP_DLCX_TX MGCP_ENCODE_ERROR MGCP_MDCX_ACK_RX MGCP_MDCX_NACK_RX MGCP_MDCX_TX MGCP_NTIFY_RX MGCP_RQNT_ACK_RX MGCP_RQNT_NACK_RX MGCP_RQNT_TX MGCP_RSIP_ACK_TX MGCP_RSIP_RX MGCP_SEND_FAILED MGCP_UNREACHABLE
	END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.

INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Measurement PCT Tools Summary (Release 4.4.1)

The Measurement POTS/Centrex/Tandem (PCT) Tools Summary (measurement-pct-tools-summary) table collects PCT tools statistics. Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-PCT-TOOLS-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-pct-tools-summary;
report measurement-pct-tools-summary start-time=2002-03-27 10:00:00; end-time=2002-03-27
12:00:00; call-agent-id=CA146; output=pct-tools-report; output-type=csv;
clear measurement-pct-tools-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description	FEATURE-SERVER-ID	Mandatory for on-demand requests. Foreign key: Feature Server table. ID of the associated Feature Server. VARCHAR(8): 1–8 ASCII characters in the format FSPTCnnn/fsptcnnn or FSAINnnn/fsainnnn.
	DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. Permitted values are: TIMESTAMP NODENAME CONDITION TOOLS_LIDB_QUERY_ATTMP TOOLS_LIDB_QUERY_SUCC
	END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
	OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
	START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
	SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Measurement POTS Auto Callback/Recall/Call Rejection Feature Server Summary

The Measurement POTS Auto Callback/Recall/Call Rejection Feature Server Summary (measurement-pots-acar-summary) table requests a summary report of Auto Callback/Recall/Call Rejection-related statistics for a specified Feature Server that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-POTS-ACAR-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-pots-acar-summary;
```

```
report measurement-pots-acar-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27  
06:30:00; feature-server-id= FSAIN203;output-type=csv;  
clear measurement-pots-acar-summary feature-server-id=fsptc203;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): feature-server-id

Syntax Description	FEATURE-SERVER-ID	Mandatory for on-demand requests. Foreign key: Feature Server table. ID of the associated Feature Server. VARCHAR(8): 1–8 ASCII characters in the format FSPTCnnn/fsptcnnn or FSAINnnn/fsainnnn.
	DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. Permitted values are: TIMESTAMP NODENAME CONDITION POTS_AC_ACT_ATTMP POTS_AC_DEACT_ATTMP POTS_AC_DEACT_BY_SYSTEM POTS_AC_DELAYED_PROC POTS_AC_IMMEDIATE_PROC POTS_AC_INTERLATA_ATTMP POTS_AC_OVERFLOW POTS_ACART_ORIG_SCAN_REQ POTS_ACART_QUEUED_REQ POTS_ACART_REJECT_NO_RSRC POTS_ACART_TERM_SCAN_REQ POTS_ACR_ACT_ATTMP POTS_ACR_ACT_REJECT_NO_RSRC POTS_ACR_DEACT_ATTMP POTS_ACR_DEACT_REJECT_NO_RSRC POTS_ACR_SUCC POTS_AR_ACT_ATTMP POTS_AR_DEACT_ATTMP POTS_AR_DEACT_BY_SYSTEM POTS_AR_DELAYED_PROC POTS_AR_IMMEDIATE_PROC POTS_AR_INTERLATA_ATTMP POTS_AR_OVERFLOW
	END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.

INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Measurement POTS Class of Service Feature Server Summary

The Measurement POTS Class of Service Feature Server Summary (measurement-pots-cos-summary) table requests a summary report of class of service-related statistics for a specified Feature Server that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-POTS-COS-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-pots-cos-summary;
report measurement-pots-cos-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; feature-server-id= FSAIN203; output-type=csv;
clear measurement-pots-cos-summary feature-server-id=fsptc203;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): feature-server-id

Syntax Description

FEATURE-SERVER-ID	Mandatory for on-demand requests. Foreign key: Feature Server table. ID of the associated Feature Server. VARCHAR(8): 1–8 ASCII characters in the format FSPTCnnn/fsptcnnn or FSAInnnn/fsainnnn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-10 for permitted values.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

[Table 11-10](#) lists the values for the Measurement POTS Class of Service Feature Server Summary Display token.

Table 11-10 Measurement POTS Class of Service Feature Server Summary

TIMESTAMP
NODENAME

CONDITION	
POTS_COS_900_BLOCKED	
POTS_COS_976_BLOCKED	
POTS_COS_ACCT_CODE_FAIL	
POTS_COS_ACCT_CODE_SUCC	
POTS_COS_ANI_ATTMP_SUCC	
POTS_COS_ANI_BLOCKED_CALL	
POTS_COS_AUTH_CODE_FAIL	
POTS_COS_AUTH_CODE_SUCC	
POTS_COS_CASUAL_RESTRICT	
POTS_COS_DA_BLOCKED	
POTS_COS_INTL_BLOCKED_BW	
POTS_COS_INTL_OP_BLOCKED	
POTS_COS_INTL_RESTRICT	
POTS_COS_NANP_BLOCKED_BW	
POTS_COS_NANP_OP_BLOCKED	
POTS_COS_NANP_RESTRICT	
POTS_COS_TOLLFREE_BLOCKED	(Release 4.5)
POTS_COS_TOT_ACCT_IVR_SESSION	(Release 4.5)
POTS_COS_TOT_AUTH_IVR_SESSION	(Release 4.5)
POTS_COS_TOT_IVR_FAIL	(Release 4.5)
POTS_TDISC_CALLS_OUTG_BLOCKED	(Release 4.5)

Measurement POTS Customer-Originated Trace Feature Server Summary

The Measurement POTS Customer-Originated Trace Feature Server Summary (measurement-pots-cot-summary) table requests a summary report of customer-originated trace-related statistics for a specified Feature Server that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-POTS-COT-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-pots-cot-summary;
report measurement-pots-cot-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; feature-server-id= FSAIN203;output-type=csv;
clear measurement-pots-cot-summary feature-server-id=fsptc203;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): feature-server-id

Syntax Description

FEATURE-SERVER-ID	Mandatory for on-demand requests. Foreign key: Feature Server table. ID of the associated Feature Server. VARCHAR(8): 1–8 ASCII characters in the format FSPTCnnn/fsptcnnn or FSAINnnn/fsainnnn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. Permitted values are: TIMESTAMP NODENAME CONDITION POTS_COT_ABAND POTS_COT_ACCESS POTS_COT_ACT POTS_COT_DENY POTS_COT_DN_UNAVAIL POTS_COT_TRACE_CONFIRM POTS_COT_TRACE_OUTPUT
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language

START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Measurement POTS Local Feature Server Summary

The Measurement POTS Local Feature Server Summary (measurement-pots-local-summary) table requests a summary report of local-related statistics for a specified Feature Server that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-POTS-LOCAL-SUMMARY

Table Containment Area: OAMP

Command Types Report, show and clear

Examples

```
show measurement-pots-local-summary;
report measurement-pots-local-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; feature-server-id= FSAIN203;output-type=csv;
clear measurement-pots-local-summary feature-server-id=fsptc203;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): feature-server-id

Syntax Description	FEATURE-SERVER-ID	Mandatory for on-demand requests. Foreign key: Feature Server table. ID of the associated Feature Server. VARCHAR(8): 1–8 ASCII characters in the format FSPTCnnn/fsptcnnn or FSAINnnn/fsainnnn.
	DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-11 for permitted values.
	END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.

INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Table 11-11 lists the values for the Measurement POTS Local Feature Server Summary Display token.

Table 11-11 Measurement POTS Local Feature Server Summary Display Token Values

TIMESTAMP
NODENAME
CONDITION
POTS_CCW_ATTMP
POTS_CCW_LENGTH
POTS_CCW_REJECT_BY_CCW
POTS_CCW_REJECT_NO_RSRC
POTS_CFB_ACT_ATTMP
POTS_CFB_ACT_REFUSED
POTS_CFB_DEACT_ATTMP
POTS_CFB_FORWARD_FAIL
POTS_CFB_FORWARD_SUCC
POTS_CFB_INTERROG_ATTMP
POTS_CFC_ACT_ATTMP
(Release 4.5)

POTS_CFC_ACT_FAIL	(Release 4.5)
POTS_CFC_ACT_SUCC	(Release 4.5)
POTS_CFC_DEACT_ATTMP	(Release 4.5)
POTS_CFC_DEACT_FAIL	(Release 4.5)
POTS_CFC_DEACT_SUCC	(Release 4.5)
POTS_CFC_DN_CHG_ACT_ATTMP	(Release 4.5)
POTS_CFC_DN_CHG_ACT_FAIL	(Release 4.5)
POTS_CFC_DN_CHG_ACT_SUCC	(Release 4.5)
POTS_CFC_FORWARD_ATTMP	(Release 4.5)
POTS_CFC_FORWARD_FAIL	(Release 4.5)
POTS_CFC_FORWARD_SUCC	(Release 4.5)
POTS_CFC_INTERROG_ATTMP	(Release 4.5)
POTS_CFC_INTERROG_FAIL	(Release 4.5)
POTS_CFC_INTERROG_SUCC	(Release 4.5)
POTS_CFNA_ACT_ATTMP	
POTS_CFNA_ACT_REFUSED	
POTS_CFNA_DEACT_ATTMP	
POTS_CFNA_FORWARD_FAIL	
POTS_CFNA_FORWARD_SUCC	
POTS_CFNA_INTERROG_ATTMP	
POTS_CFU_ACT_ATTMP	
POTS_CFU_DEACT_ATTMP	
POTS_CFU_ACT_REFUSED	
POTS_CFU_ACT_ANSWERED	
POTS_CFU_ACT_SECOND	
POTS_CFU_FORWARD_FAIL	
POTS_CFU_FORWARD_SUCC	
POTS_CFU_INTERROG_ATTMP	
POTS_CHD_ANSWER	
POTS_CHD_ATTMP	
POTS_CHD_NOT_ANSWER	
POTS_CHD_REJECT_INTERACT	
POTS_CHD_REJECT_NO_RSRC	
POTS_CIDS_ATTMP	
POTS_CIDSS_ATTMP	
POTS_CNAB_ATTMP	
POTS_CNDB_ATTMP	
POTS_CPRK_CLEAR	

POTS_CPRK_FAIL_ATTMP
POTS_CPRK_FAIL_RET_ATTMP
POTS_CPRK_FORWARD
POTS_CPRK_SUCC_ATTMP
POTS_CPRK_SUCC_RET_ATTMP
POTS_CT_ANSWER
POTS_CT_ATTMP
POTS_CT_CONF
POTS_CT_FAIL
POTS_CT_TRANSFER
POTS_CW_ANSWERED
POTS_CW_ATTMP
POTS_CW_NOT_ANSWERED
POTS_CW_REJECT_NO_RSRC
POTS_CW_REJECT_INTERACT
POTS_CWD_ACT_FAIL
POTS_CWD_ACT_SUCC
POTS_CWD_ANSWER
POTS_CWD_ATTMP
POTS_CWD_DEACT_FAIL
POTS_CWD_DEACT_SUCC
POTS_CWD_INTERROG_SUCC
POTS_CWD_INTERROG_FAIL
POTS_DND_ACT_FAIL
POTS_DND_ACT_SUCC
POTS_DND_DEACT_FAIL
POTS_DND_DEACT_SUCC
POTS_DND_REJECT
POTS_DRCW_ATTMP
POTS_DRCW_REJECT_NO_RSRC
POTS_DRCW_SUCC
POTS_MDC_ATTMP
POTS_MDC_REJECT_INTERACT
POTS_MDC_REJECT_NO_RSRC
POTS_MDC_REJECT_OTHERS
POTS_NSA_INVOKE_ABANDON (Release 4.5)
POTS_NSA_INVOKE_ATTMP (Release 4.5)
POTS_NSA_INVOKE_FAIL (Release 4.5)

POTS_NSA_INVOKE_SUCC (Release 4.5)

POTS_OCB_ACT_SUCC

POTS_OCB_DEACT_SUCC

POTS_OCB_INTERROG_SUCC

POTS_OCB_INTL_BLOCK

POTS_OCB_INVALID_PASSWORD

POTS_OCB_INVOCATION

POTS_OCB_LOCAL_BLOCK

POTS_OCB_NATL_BLOCK

POTS_RACF_ATTMP

POTS_RACF_CFU_ACT

POTS_RACF_CFU_DEACT

POTS_RACF_CFU_UNCHANGED

POTS_RACF_PIN_ATTMP

POTS_RACF_PIN_CHANGE

POTS_RACF_PIN_REFUSE

POTS_RACF_PIN_REJECT_NO_RSRC

POTS_RACF_PIN_UNCHANGE

POTS_RACF_REFUSE

POTS_RACF_REJECT_NO_RSRC

POTS_RC_SUCC

POTS_REFERER_ATTMP

POTS_REFERER_FAIL

POTS_REFERER_SUCC

POTS_SC_1_DIGIT_ATTMP

POTS_SC_2_DIGIT_ATTMP

POTS_SC_SUCC_CCSC

POTS_TWC_ANSWERED

POTS_TWC_ATTMP

POTS_TWC_CONF

POTS_TWC_FAIL

POTS_TWCD_ATTMP

POTS_TWCD_CONF

Measurement POTS Miscellaneous Feature Server Summary

The Measurement POTS Miscellaneous Feature Server Summary (measurement-pots-misc-summary) table requests a summary report of miscellaneous-related statistics for a specified Feature Server that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-POTS-MISC-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-pots-misc-summary;
report measurement-pots-misc-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; feature-server-id= FSAIN203;output-type=csv;
clear measurement-pots-misc-summary feature-server-id=fsptc203;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): feature-server-id

Syntax Description

FEATURE-SERVER-ID	Mandatory for on-demand requests. Foreign key: Feature Server table. ID of the associated Feature Server. VARCHAR(8): 1–8 ASCII characters in the format FSPTCnnn/fsptcnnn or FSAINnnn/fsainnnn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-12 for permitted values.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.

OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Table 11-12 lists the values for the Measurement POTS Miscellaneous Feature Server Summary Display token.

Table 11-12 Measurement POTS Miscellaneous Feature Server Summary Display Token Values

TIMESTAMP	
NODENAME	
CONDITION	
POTS_BLV_ATTMP	(Release 4.5)
POTS_CTX_SFG_OVERFLOW (Release 4.5)	(Release 4.5)
POTS_HOTLINE_ATTMP (Release 4.5)	(Release 4.5)
POTS_HOTV_ACT_SUCC (Release 4.5)	(Release 4.5)
POTS_HOTV_ATTMP (Release 4.5)	(Release 4.5)
POTS_HOTV_DEACT_SUCC (Release 4.5)	(Release 4.5)
POTS_HOTV_INTERROG_SUCC (Release 4.5)	(Release 4.5)
POTS_LCD_AUTH_ATTEMPTS	(Release 4.4.1) (Obsolete in 4.5)
POTS_LCD_AUTH_ATTMP (Release 4.5)	(Release 4.5)
POTS_LCD_AUTH_FAIL (Release 4.4.1)	(Release 4.5)
POTS_LCD_AUTH_SUCC (Release 4.5)	(Release 4.5)
POTS_LCD_AUTH_SUCCESS	(Release 4.4.1) (Obsolete in 4.5)
POTS_LCD_FORCED_DISC	(Release 4.5)
POTS_LCD_FORCED_DISCONNECT	(Release 4.4.1) (Obsolete in 4.5)
POTS_LCD_REAUTH_FAIL	(Release 4.4.1)
POTS_OP_INTERRUPT_ATTMP	(Release 4.5)
POTS_PS_FAIL	(Release 4.5)
POTS_PS_MANAGE_FAIL	(Release 4.5)
POTS_PS_MANAGE_SUCC	(Release 4.5)

POTS_PS_SUCC	(Release 4.5)
POTS_VM_ACCESS	(Release 4.5)
POTS_VM_ACT_FAIL	(Release 4.5)
POTS_VM_ACT_SUCC	(Release 4.5)
POTS_VM_ATTMP	(Release 4.5)
POTS_VM_DEACT_FAIL	(Release 4.5)
POTS_VM_DEACT_SUCC	(Release 4.5)
POTS_WARMLINE_ATTMP	(Release 4.5)
SIS_100_RX	(Release 4.5)
SIS_100_TX	(Release 4.5)
SIS_18x_RX	(Release 4.5)
SIS_18x_TX	(Release 4.5)
SIS_200_RX	(Release 4.5)
SIS_200_TX	(Release 4.5)
SIS_3xx_RX	(Release 4.5)
SIS_3xx_TX	(Release 4.5)
SIS_4xx_RX	(Release 4.5)
SIS_4xx_TX	(Release 4.5)
SIS_5xx_RX	(Release 4.5)
SIS_5xx_TX	(Release 4.5)
SIS_6xx_RX	(Release 4.5)
SIS_6xx_TX	(Release 4.5)
SIS_7xx_RX	(Release 4.5)
SIS_7xx_TX	(Release 4.5)
SIS_ACK_RX	(Release 4.5)
SIS_ACK_TX	(Release 4.5)
SIS_BYE_RX	(Release 4.5)
SIS_BYE_TX	(Release 4.5)
SIS_CANCEL_RX	(Release 4.5)
SIS_CANCEL_TX	(Release 4.5)
SIS_INFO_RX	(Release 4.5)
SIS_INFO_TX	(Release 4.5)
SIS_INVITE_REPLACES_RX	(Release 4.5)
SIS_INVITE_REPLACES_TX	(Release 4.5)
SIS_INVITE_RX	(Release 4.5)
SIS_INVITE_TX	(Release 4.5)
SIS_NOTIFY_RX	(Release 4.5)
SIS_NOTIFY_TX	(Release 4.5)

SIS_OPTIONS_RX	(Release 4.5)
SIS_OPTIONS_TX	(Release 4.5)
SIS_PRACK_RX	(Release 4.5)
SIS_PRACK_TX	(Release 4.5)
SIS_PROV_RSP_RETRAN_RX	(Release 4.5)
SIS_PROV_RSP_RETRAN_TX	(Release 4.5)
SIS_REFER_RX	(Release 4.5)
SIS_REFER_TX	(Release 4.5)
SIS_REFER_W_REPLACES_RX	(Release 4.5)
SIS_REGISTER_RX	(Release 4.5)
SIS_REGISTER_TX	(Release 4.5)
SIS_REL100_RX	(Release 4.5)
SIS_REL100_TX	(Release 4.5)
SIS_REQ_RETRAN_RX	(Release 4.5)
SIS_REQ_RETRAN_TX	(Release 4.5)
SIS_RSP_RETRAN_RX	(Release 4.5)
SIS_RSP_RETRAN_TX	(Release 4.5)
SIS_SUBSCRIBE_RX	(Release 4.5)
SIS_SUBSCRIBE_TX	(Release 4.5)
SIS_T1_TIMER_EXPIRED	(Release 4.5)
SIS_T2_TIMER_REACHED	(Release 4.5)
SIS_TOTAL_INCOM_MSG	(Release 4.5)
SIS_TOTAL_OUTG_MSG_ATTMP	(Release 4.5)
SIS_TOTAL_SUCC_INCOM_MSG	(Release 4.5)
SIS_TOTAL_SUCC_OUTG_MSG	(Release 4.5)
SIS_UNSUPPORTED_RX	(Release 4.5)
SIS_UPDATE_RX	(Release 4.5)
SIS_UPDATE_TX	(Release 4.5)

Measurement POTS Screening List Editing Feature Server Summary

The Measurement POTS Screening List Editing Feature Server Summary (measurement-pots-sle-summary) table requests a summary report of POTS screening list editing (SLE)-related statistics for a specified Feature Server that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-POTS-SLE-SUMMARY

Table Containment Area: OAMP

Command Types Report, show and clear

Examples

```
show measurement-pots-sle-summary;
report measurement-pots-sle-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; feature-server-id= FSAIN203;output-type=csv;
clear measurement-pots-sle-summary feature-server-id=fsptc203;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): feature-server-id

Syntax Description

FEATURE-SERVER-ID	Mandatory for on-demand requests. Foreign key: Feature Server table. ID of the associated Feature Server. VARCHAR(8): 1–8 ASCII characters in the format FSPTCnnn/fsptcnnn or FSAINnnn/fsainnnn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. Permitted values are: TIMESTAMP NODENAME CONDITION POTS_SCA_ATTMP POTS_SCA_REJECT_NO_RSRC POTS_SCA_SUCC POTS_SCF_ATTMP POTS_SCF_REJECT_NO_RSRC POTS_SCF_SUCC POTS_SCR_ATTMP POTS_SCR_REJECT_NO_RSRC POTS_SCR_SUCC
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.

INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Measurement Provisioning

The Measurement Provisioning (measurement-provisioning) table collects all current traffic statistics by type.

Table Name: MEASUREMENT-PROVISIONING

Table Containment Area: OAMP

Command Types

Show and change

Examples

```
show measurement-prov type=isup;
change measurement-prov time-interval=60;
```

Usage Guidelines

Primary Key Token(s): None.

Syntax Description

*ENABLE	Indicates whether the specified type is currently being collected. CHAR(1): Y/N (Default = Y). Y—Type is collected. N—Type is not collected.
*TYPE	Specifies what measurements the traffic subsystem supports. Note Entering a show command without specifying a TYPE value will return all types as of Release 4.4.1. VARCHAR(10): 1–10 ASCII characters. Permitted values are: ALL—(Default) All types. (Obsolete as of Release 4.4.1) (Supported in Release 4.5.1) AIN-SVC—Advanced Intelligent Network server AIN-TOOLS (Release 4.4.1)—Advanced Intelligent Network tools ANM—Announcement Module AUDIT—Audit BILLING—Billing CALLP—Call Processing CALL-TOOLS (Release 4.4.1)—Call tools DQOS—Dynamic Quality of Service EM—Event Messaging (Billing) H323—H.323 INAP—Intelligent Network Application Protocol ISDN—Integrated Services Digital Network ISUP—ISDN User Part (SS7) M3UA—M3UA signaling protocol MGCP—Media Gateway Control Protocol PCT-TOOLS (Release 4.4.1)—PCT tools POTS-FS—POTS Feature Server POTS-LOCAL—Local Feature POTS-MISC—Miscellaneous Feature POTS-SLE—Screening List Editing POTS-ACAR—Auto Callback/Recall POTS-COS—Class of Service POTS-COT—Customer-Originated Trace SCCP—Signaling Connection Control Part protocol—SCTP signaling protocol SIA—SIP interface adapter SIM—Service Interaction Manager SNMP—Signaling Network Management Protocol SUA—SUA signaling protocol TCAP—Transactional Capabilities Application Part protocol TG-USG—Trunk Group usage TSA—TCAP Signaling Adapter (TSA) application

TIME-INTERVAL	The collection time. SMALLINT: 5, 15, 30, 60 minutes (Default = 15). If type=lg-usg, the default collection time is 100 seconds.
---------------	--

Measurement SCCP Summary

The Measurement SCCP Summary (measurement-sccp-summary) table requests a summary report of Signaling Connection Control Part (SCCP)-related statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-SCCP-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-sccp-summary;
report measurement-sccp-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; call-agent-id=CA146;output-type=csv;
clear measurement-sccp-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description

CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. The ID of the selected Call Agent. VARCHAR(8): 1–8 ASCII characters.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-13 for permitted values.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.

INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Table 11-13 lists the values for the Measurement SCCP Summary Display token.

Table 11-13 Measurement SCCP Summary Display Token Values

SCCP_HOP_COUNTER_FAIL
SCCP_MSG_TX_BACKUP_SUBSYS
SCCP_NETWORK_CONGEST_FAIL
SCCP_NETWORK_FAIL
SCCP_NO_TRANS_ADDR_FAIL
SCCP_NO_TRANS_SPEC_ADDR_FAIL
SCCP_NSAP_ALLOW_MSG_RX
SCCP_NSAP_ALLOW_MSG_TX
SCCP_NSAP_CONGEST_RX
SCCP_NSAP_CONGEST_TX
SCCP_NSAP_OOS_GRANT_RX
SCCP_NSAP_OOS_GRANT_TX
SCCP_NSAP_OOS_REQ_RX
SCCP_NSAP_OOS_REQ_TX

SCCP_NSAP_PROHIBIT_RX
SCCP_NSAP_PROHIBIT_TX
SCCP_NSAP_STAT_TEST_RX
SCCP_NSAP_STAT_TEST_TX
SCCP_SUBSYS_CONGEST_FAIL
SCCP_SUBSYS_FAIL
SCCP_SUBSYS_OOS_REQ_DENY
SCCP_SUBSYS_OOS_REQ_GRANT
SCCP_SYNTAX_ERR
SCCP_TOTAL_CLASS_0_RX
SCCP_TOTAL_CLASS_0_TX
SCCP_TOTAL_CLASS_1_RX
SCCP_TOTAL_CLASS_1_TX
SCCP_TOTAL_EXT_UDATA_TX
SCCP_TOTAL_EXT_UDATA_SVC_TX
SCCP_TOTAL_EXT_UDATA_RX
SCCP_TOTAL_EXT_UDATA_SVC_RX
SCCP_TOTAL_GLOBAL_ADDR_TRAN
SCCP_TOTAL_LOCAL_MSG
SCCP_TOTAL_LONG_UDATA_RX
SCCP_TOTAL_LONG_UDATA_SVC_RX
SCCP_TOTAL_LONG_UDATA_SVC_TX
SCCP_TOTAL_LONG_UDATA_TX
SCCP_TOTAL_MSG
SCCP_TOTAL_UDATA_RX
SCCP_TOTAL_UDATA_SVC_RX
SCCP_TOTAL_UDATA_SVC_TX
SCCP_TOTAL_UDATA_TX
SCCP_USAP_TOTAL_CLASS_0_RX
SCCP_USAP_TOTAL_CLASS_0_TX
SCCP_USAP_TOTAL_CLASS_1_RX
SCCP_USAP_TOTAL_CLASS_1_TX
SCCP_UNEQUIP_USER_FAIL
SCCP_UNKNOWN_FAIL

Measurement SCTP Summary

The Measurement Stream Control Transmission Protocol (SCTP) Summary (measurement-sctp-summary) table requests a summary report of SCTP-related statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-SCTP-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-sctp-summary;  
report measurement-sctp-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27  
06:30:00; call-agent-id=CA146;  
clear measurement-sctp-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description

CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. The ID of the selected Call Agent. VARCHAR(8): 1–8 ASCII characters.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-14 for permitted values.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language

START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Table 11-14 lists the values for the Measurement SCTP Summary Display token.

Table 11-14 Measurement SCTP Summary Display Token Values

TIMESTAMP
NODENAME
CONDITION
SCTP_ASSOC_COMM_LOST
SCTP_ASSOC_ID
SCTP_CHUNK_ORDER_ERR
SCTP_CHUNK_TOO_LARGE_ERR
SCTP_CHUNK_TOO_SMALL_ERR
SCTP_CONTROL_CHUNK_RX
SCTP_CONTROL_CHUNK_TX
SCTP_COOKIE_IN_SHUTDOWN_ERR_RX
SCTP_CWR_CHUNK_RX
SCTP_DATA_BYTE_RX
SCTP_DATA_BYTE_TX
SCTP_DATA_CHUNK_DISCARD
SCTP_DATA_CHUNK_RETRAN
SCTP_DATA_CHUNK_RX
SCTP_DATA_CHUNK_RX_BUNDLE
SCTP_DATA_CHUNK_RX_ORDER
SCTP_DATA_CHUNK_RX_SEQ_ERR
SCTP_DATA_CHUNK_RX_UNORDER
SCTP_DATA_CHUNK_TX
SCTP_DATA_CHUNK_TX_BUNDLE
SCTP_DATA_CHUNK_TX_ORDER
SCTP_DATA_CHUNK_TX_UNORDER
SCTP_DATAG_RX

SCTP_DATAG_TX
SCTP_DEST_ADDR_FAIL
SCTP_ECNE_CHUNK_RX
SCTP_EMPTY_DATAG_ERR
SCTP_EXPIRED_COOKIE_ERR
SCTP_INVALID_BUNDLE_CHUNK
SCTP_INVALID_CHECKSUM
SCTP_INVALID_COOKIE_SIG
SCTP_INVALID_DATAG_LENGTH
SCTP_INVALID_PARAM_ERR_RX
SCTP_INVALID_STREAM
SCTP_INVALID_STREAM_ERR_RX
SCTP_INVALID_VERIF_TAG
SCTP_MISSING_PARAM_ERR
SCTP_MISSING_PARAM_ERR_RX
SCTP_NO_SPACE_INCOM_ERR
SCTP_NO_USER_DATA_ERR_RX
SCTP_OOTB
SCTP_OUT_OF_RSCR_ERR_RX
SCTP_PARTIAL_CHUNK_ERR
SCTP_PEER_RESTART_ERR
SCTP_STALE_COOKIE_ERR
SCTP_STALE_COOKIE_ERR_RX
SCTP_ULP_QUEUE
SCTP_ULP_READY
SCTP_ULP_RX
SCTP_ULP_TX
SCTP_UNKNOWN_CHUNK_TYPE
SCTP_UNKNOWN_INIT_PARAM
SCTP_UNRECOG_CHUNK_ERR_RX
SCTP_UNRECOG_PARAM_ERR_RX
SCTP_UNRESOLV_ADDR_ERR_RX
SCTP_V6_ADDR_PARAM_RX

Measurement SIA Summary

The Measurement SIA Summary (measurement-sia-summary) table requests a summary report of SIP+ interface adapter (SIA)-related statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-SIA-SUMMARY

Table Containment Area: OAMP

Command Types Report, show and clear

Examples

```
show measurement-sia-summary;
report measurement-sia-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; call-agent-id=CA146;output-type=csv;
clear measurement-sia-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description	CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. The ID of the selected Call Agent. VARCHAR(8): 1–8 ASCII characters.
	DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-15 for permitted values.
	END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
	INTERVAL	Specifies whether to report measurement entries for all intervals, or to get the current data that is not yet in a report. STRING. CURRENT—Returns the measurement data available for the latest interval that is not yet in a report for the Call Agent and Feature Server. If used with the START-TIME token, the START-TIME token is ignored and the INTERVAL=CURRENT value is used. ALL—returns all the entries in regardless of the timestamp or reported intervals. If used with the START-TIME token, this token is ignored and the START-TIME value is used.

START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Table 11-15 lists the values for the Measurement SIA Summary Display token.

Table 11-15 Measurement SIA Summary Display Token Values

TIMESTAMP	
NODENAME	
CONDITION	
SIA_ATTENDED_TRANSFER	(Obsolete in Release 4.5)
SIA_AUDIT_BCM_CALL_RELEASED	(Release 4.5)
SIA_AUDIT_CALL_RELEASED	(Release 4.5)
SIA_AUDIT_CCB_FREED	(Release 4.5)
SIA_AUDIT_REGCONTACT_FREED	(Release 4.5)
SIA_CALL_FAIL_BY_EXPIRED_REG	
SIA_INCOM_FAIL	(Release 4.5)
SIA_INCOM_INIT	(Release 4.5)
SIA_INCOM_SUCC	(Release 4.5)
SIA_MWI_NOTIFY_RX	
SIA_MWI_NOTIFY_TX	
SIA_MWI_NOTIFY_TX_FAIL	(Obsolete in Release 4.5)
SIA_OUTG_FAIL	(Release 4.5)
SIA_OUTG_INIT	(Release 4.5)
SIA_OUTG_SUCC	(Release 4.5)
SIA_REFRESHES_TX	
SIA_SECURE_FQDN_VIOLATION_REQ	(Release 4.5)
SIA_SECURE_FQDN_VIOLATION_RESP	(Release 4.5)
SIA_SIP_INCOM_FAIL	(Obsolete in Release 4.5)
SIA_SIP_INCOM_INIT	(Obsolete in Release 4.5)
SIA_SIP_INCOM_SUCC	(Obsolete in Release 4.5)
SIA_SIP_OUTG_FAIL	(Obsolete in Release 4.5)
SIA_SIP_OUTG_INIT	(Obsolete in Release 4.5)

SIA_SIP_OUTG_SUCC	(Obsolete in Release 4.5)
SIA_TOTAL_FAIL	(Obsolete in Release 4.5)
SIA_TOTAL_INCOM_MSG_FAIL	(Obsolete in Release 4.5)
SIA_TOTAL_OUTG_MSG_FAIL	(Obsolete in Release 4.5)
SIA_TOTAL_SESS_TIMER_FAIL	
SIA_TOTAL_SUCC	(Obsolete in Release 4.5)
SIA_UNATTENDED_TRANSFER	(Obsolete in Release 4.5)
SIS_100_RX	(Release 4.5)
SIS_100_TX	(Release 4.5)
SIS_18x_RX	(Release 4.5)
SIS_18x_TX	(Release 4.5)
SIS_200_RX	(Release 4.5)
SIS_200_TX	(Release 4.5)
SIS_3xx_RX	(Release 4.5)
SIS_3xx_TX	(Release 4.5)
SIS_4xx_RX	(Release 4.5)
SIS_4xx_TX	(Release 4.5)
SIS_5xx_RX	(Release 4.5)
SIS_5xx_TX	(Release 4.5)
SIS_6xx_RX	(Release 4.5)
SIS_6xx_TX	(Release 4.5)
SIS_7xx_RX	(Release 4.5)
SIS_7xx_TX	(Release 4.5)
SIS_ACK_RX	(Release 4.5)
SIS_ACK_TX	(Release 4.5)
SIS_BYE_RX	(Release 4.5)
SIS_BYE_TX	(Release 4.5)
SIS_CANCEL_RX	(Release 4.5)
SIS_CANCEL_TX	(Release 4.5)
SIS_INFO_RX	(Release 4.5)
SIS_INFO_TX	(Release 4.5)
SIS_INVITE_REPLACES_RX	(Release 4.5)
SIS_INVITE_REPLACES_TX	(Release 4.5)
SIS_INVITE_RX	(Release 4.5)
SIS_INVITE_TX	(Release 4.5)
SIS_NOTIFY_RX	(Release 4.5)
SIS_NOTIFY_TX	(Release 4.5)
SIS_OPTIONS_RX	(Release 4.5)

SIS_OPTIONS_TX	(Release 4.5)
SIS_PRACK_RX	(Release 4.5)
SIS_PRACK_TX	(Release 4.5)
SIS_PROV_RSP_RETRAN_RX	(Release 4.5)
SIS_PROV_RSP_RETRAN_TX	(Release 4.5)
SIS_REFER_RX	(Release 4.5)
SIS_REFER_TX	(Release 4.5)
SIS_REFER_W_REPLACES_RX	(Release 4.5)
SIS_REGISTER_RX	(Release 4.5)
SIS_REGISTER_TX	(Release 4.5)
SIS_REL100_RX	(Release 4.5)
SIS_REL100_TX	(Release 4.5)
SIS_REQ_RETRAN_RX	(Release 4.5)
SIS_REQ_RETRAN_TX	(Release 4.5)
SIS_RSP_RETRAN_RX	(Release 4.5)
SIS_RSP_RETRAN_TX	(Release 4.5)
SIS_SUBSCRIBE_RX	(Release 4.5)
SIS_SUBSCRIBE_TX	(Release 4.5)
SIS_T1_TIMER_EXPIRED	(Release 4.5)
SIS_T2_TIMER_REACHED	(Release 4.5)
SIS_TOTAL_INCOM_MSG	(Release 4.5)
SIS_TOTAL_OUTG_MSG_ATTMP	(Release 4.5)
SIS_TOTAL_SUCC_INCOM_MSG	(Release 4.5)
SIS_TOTAL_SUCC_OUTG_MSG	(Release 4.5)
SIS_UNSUPPORTED_RX	(Release 4.5)
SIS_UPDATE_RX	(Release 4.5)
SIS_UPDATE_TX	(Release 4.5)

Measurement SIM Summary

The Measurement SIM Summary (measurement-sim-summary) table requests a summary report of Service Interaction Module (SIM)-related statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-SIM-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-sim-summary;
report measurement-sim-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; call-agent-id=CA146;output-type=csv;
clear measurement-sim-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Change Rules: None.

Syntax Description

CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. The ID of the selected Call Agent. VARCHAR(8): 1–8 ASCII characters in the format CAnnn or cannn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-16 for permitted values.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Table 11-16 lists the values for the Measurement Sim Summary Display token.

Table 11-16 Measurement Sim Summary Display Token Values

TIMESTAMP	
NODENAME	
CONDITION	
BCM_MESSAGES_CTR	
CA_ASYNC_MESSAGES_SENT_CTR	
CA_RESTART_MESSAGES_SENT_CTR	
EDP_N_CTR	
EDP_R_CTR	
FS_MESSAGES_RECEIVED_CTR	
FS_MESSAGES_SENT_CTR	
FS_PING_MESSAGES_SENT_CTR	
FS_PING_NO_RESPONSE_FAULTY_CTR	
NSTRUCT_CTR	
NSTRUCT_RESPONSE_CTR	
RELATIONS_CTR	
SIM_AUDIT_CCB_FREED	(Release 4.5)
SIM_AUDIT_SIP_CCB_FREED	(Release 4.5)
SIM_BCM_MSG	
SIM_EDP_N	
SIM_EDP_R	
SIM_FS_ASYNC_MSG_TX	
SIM_FS_MSG_RX	
SIM_FS_MSG_TX	
SIM_FS_PING_MSG_TX	
SIM_FS_PING_NO_RSP_FAULTY	
SIM_FS_RESTART_MSG_TX	
SIM_INSTRUCT	
SIM_INSTRUCT_RSP	
SIM_RELATIONS	
SIM_TDP_N	
SIM_TDP_R	
SIM_TERMINATE_RX	
SIM_TERMINATE_TX	
SIS_100_RX	(Release 4.5)
SIS_100_TX	(Release 4.5)
SIS_18x_RX	(Release 4.5)

SIS_18x_TX	(Release 4.5)
SIS_200_RX	(Release 4.5)
SIS_200_TX	(Release 4.5)
SIS_3xx_RX	(Release 4.5)
SIS_3xx_TX	(Release 4.5)
SIS_4xx_RX	(Release 4.5)
SIS_4xx_TX	(Release 4.5)
SIS_5xx_RX	(Release 4.5)
SIS_5xx_TX	(Release 4.5)
SIS_6xx_RX	(Release 4.5)
SIS_6xx_TX	(Release 4.5)
SIS_7xx_RX	(Release 4.5)
SIS_7xx_TX	(Release 4.5)
SIS_ACK_RX	(Release 4.5)
SIS_ACK_TX	(Release 4.5)
SIS_BYE_RX	(Release 4.5)
SIS_BYE_TX	(Release 4.5)
SIS_CANCEL_RX	(Release 4.5)
SIS_CANCEL_TX	(Release 4.5)
SIS_INFO_RX	(Release 4.5)
SIS_INFO_TX	(Release 4.5)
SIS_INVITE_REPLACES_RX	(Release 4.5)
SIS_INVITE_REPLACES_TX	(Release 4.5)
SIS_INVITE_RX	(Release 4.5)
SIS_INVITE_TX	(Release 4.5)
SIS_NOTIFY_RX	(Release 4.5)
SIS_NOTIFY_TX	(Release 4.5)
SIS_OPTIONS_RX	(Release 4.5)
SIS_OPTIONS_TX	(Release 4.5)
SIS_PRACK_RX	(Release 4.5)
SIS_PRACK_TX	(Release 4.5)
SIS_PROV_RSP_RETRAN_RX	(Release 4.5)
SIS_PROV_RSP_RETRAN_TX	(Release 4.5)
SIS_REFER_RX	(Release 4.5)
SIS_REFER_TX	(Release 4.5)
SIS_REFER_W_REPLACES_RX	(Release 4.5)
SIS_REGISTER_RX	(Release 4.5)
SIS_REGISTER_TX	(Release 4.5)

SIS_REL100_RX	(Release 4.5)
SIS_REL100_TX	(Release 4.5)
SIS_REQ_RETRAN_RX	(Release 4.5)
SIS_REQ_RETRAN_TX	(Release 4.5)
SIS_RSP_RETRAN_RX	(Release 4.5)
SIS_RSP_RETRAN_TX	(Release 4.5)
SIS_SUBSCRIBE_RX	(Release 4.5)
SIS_SUBSCRIBE_TX	(Release 4.5)
SIS_T1_TIMER_EXPIRED	(Release 4.5)
SIS_T2_TIMER_REACHED	(Release 4.5)
SIS_TOTAL_INCOM_MSG	(Release 4.5)
SIS_TOTAL_OUTG_MSG_ATTMP	(Release 4.5)
SIS_TOTAL_SUCC_INCOM_MSG	(Release 4.5)
SIS_TOTAL_SUCC_OUTG_MSG	(Release 4.5)
SIS_UNSUPPORTED_RX	(Release 4.5)
SIS_UPDATE_RX	(Release 4.5)
SIS_UPDATE_TX	(Release 4.5)
SIP_100_RX	
SIP_100_TX	
SIP_18x_RX	
SIP_18x_TX	
SIP_200_RX	
SIP_200_TX	
SIP_3xx_RX	
SIP_3xx_TX	
SIP_4xx_RX	
SIP_4xx_TX	
SIP_5xx_RX	
SIP_5xx_TX	
SIP_6xx_RX	
SIP_6xx_TX	
SIP_7xx_RX	
SIP_7xx_TX	
SIP_ACK_RX	
SIP_ACK_TX	
SIP_BYE_RX	
SIP_BYE_TX	
SIP_CANCEL_RX	

SIP_CANCEL_TX
SIP_IC_CALL_FAILED
SIP_IC_CALL_INIT
SIP_IC_CALL_SUCCEEDED
SIP_INFO_RX
SIP_INFO_TX
SIP_INVITE_RX
SIP_INVITE_REPLACED_RX
SIP_INVITE_REPLACES_TX
SIP_INVITE_TX
SIP_NOTIFY_RX
SIP_NOTIFY_TX
SIP_OG_CALL_INIT
SIP_OG_CALL_SUCCEEDED
SIP_OG_CALL_FAILED
SIP_OPTIONS_RX
SIP_OPTIONS_TX
SIP_PRACK_RX
SIP_PRACK_TX
SIP_PROV_RSP_RETRAN_RX
SIP_PROV_RSP_RETRAN_TX
SIP_REFER_RX
SIP_REFER_W_REPLACES_RX
SIP_REFER_TX
SIP_REGISTER_RX
SIP_REGISTER_TX
SIP_REL100_RX
SIP_REL100_TX
SIP_REQ_RETRAN_RX
SIP_REQ_RETRAN_TX
SIP_RSP_RETRAN_RX
SIP_RSP_RETRAN_TX
SIP_SUBSCRIBE_RX
SIP_SUBSCRIBE_TX
SIP_T1_TIMER_EXPIRED
SIP_T2_TIMER_REACHED
SIP_TOTAL_INCOM_MSG
SIP_TOTAL_OUTG_MSG_ATTMP

SIP_TOTAL_SUCC_INCOM_MSG
SIP_TOTAL_SUCC_OUTG_MSG
SIP_UNSUPPORTED_RX
TDP_N_CTR
TDP_R_CTR
TERMINATE_RECEIVED_CTR
TERMINATE_SENT_CTR
TOTAL_SUCCESS_CALL
TOTAL_UNSUCCESS_CALL
TOTAL_UNSUCCESS_INCOMING_MSG
TOTAL_UNSUCCESS_OUTGOING_MSG

Measurement SNMP Summary

The Measurement SNMP Summary (measurement-snmpp-summary) provides a summary report of Simple Network Management Protocol (SNMP)-related statistics that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-SNMP-SUMMARY

Table Containment Area: OAMP

Command Types Report, show and clear

Examples

```
show measurement-snmpp-summary;  
report measurement-snmpp-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27  
06:30:00;output-type=csv;  
clear measurement-snmpp-summary;
```

Usage Guidelines

Primary Key Token(s): None.

Change Rules: None.

Syntax Description	EM-ID	Mandatory for the clear command. The EM id.
		VARCHAR(64): 1–64 ASCII characters.

DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. Permitted values are: TIMESTAMP NODENAME CONDITION SNMP_GET_NEXT_RX SNMP_GET_NEXT_TX SNMP_GET_RX SNMP_GET_TX SNMP_SET_RX SNMP_SET_TX SNMP_TRAP_TX
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Measurement SUA Protocol Feature Server Summary

The Measurement SUA Summary (measurement-sua-summary) table requests a summary report of SCCP-User Adaptation Layer (SUA)-related statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-SUA-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-sua-summary;
```

```
report measurement-sua-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; call-agent-id=CA146;
clear measurement-sua-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description

CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. The ID of the selected Call Agent. VARCHAR(8): 1–8 ASCII characters.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-17 for permitted values.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

[Table 11-17](#) lists the values for the Measurement SUA Summary Display token.

Table 11-17 Measurement SUA Summary Display Token Values

TIMESTAMP
NODENAME
CONDITION
SUA_ACTIVE_ACK_RX
SUA_ACTIVE_TX
SUA_ASSOC_FAIL
SUA_BEAT_ACK_RX
SUA_BEAT_ACK_TX
SUA_BEAT_RX
SUA_BEAT_TX
SUA_CLDR_RX

SUA_CLDR_TX
SUA_CLDT_RX
SUA_CLDT_TX
SUA_DATA_BYTES_RX
SUA_DATA_BYTES_TX
SUA_DAUD_TX
SUA_DAVA_RX
SUA_DOWN_ACK_RX
SUA_DOWN_TX
SUA_DRST_RX
SUA_DUNA_RX
SUA_DUPU_RX
SUA_ERR_RX
SUA_ERR_TX
SUA_INACTIVE_ACK_RX
SUA_INACTIVE_TX
SUA_INVALID_SCTP_SIGNALS
SUA_MSG_CLASS_ERR
SUA_MSG_INVALID_LENGTH_RX
SUA_MSG_TYPE_ERR
SUA_NETWORK_APPEAR_ERR
SUA_NO_MEMORY_FAIL
SUA_NOTIFY_RX
SUA_NOTIFY_TX
SUA_PARAM_FIELD_ERR
SUA_PARAM_VALUE_ERR
SUA_PROTOCOL_ERR
SUA_ROUTING_CONTEXT_ERR
SUA_SCON_RX
SUA_SCON_TX
SUA_SCTP_TX_FAIL
SUA_SINCE_LAST_RESET_ASSOC
SUA_STREAM_ID_ERR
SUA_UNEXPECT_MSG_ERR
SUA_UNEXPECT_PARAM_ERR
SUA_UP_ACK_RX
SUA_UP_TX
SUA_VERSION_ERR

Measurement TCAP Protocol Summary

The Measurement Transaction Capabilities Application Part (TCAP) Protocol Summary (measurement-tcap-summary) table requests a summary report of TCAP-related statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-TCAP-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-tcap-summary;
report measurement-tcap-summary start-time=2003-03-27 06:00:00; end-time=2003-03-27
06:30:00; call-agent-id=CA146; output-type=csv;
clear measurement-tcap-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description

FEATURE-SERVER-ID	Mandatory for on-demand requests. Foreign key: Feature Server table. The ID of the associated Feature Server. VARCHAR(8): 1–8 ASCII characters in the format fsptcnnn or fsainnnn.
DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-18 for permitted values.
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language

START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

Table 11-18 lists the values for the Measurement TCAP Summary Display token.

Table 11-18 Measurement TCAP Summary Display Token Values

TIMESTAMP
NODENAME
CONDITION
TCAP_ABORT_IND_RX (Release 4.5)
TCAP_ABORT_MSG_RX
TCAP_ABORT_MSG_TX
TCAP_ACT_INVOCATIONS
TCAP_ACT_TRANSACTIONS
TCAP_BAD_STRUCT_COMP_PORT_RX
TCAP_BAD_STRUCT_COMP_PORT_TX
TCAP_BAD_STRUCT_DIALOG_PORT_RX
TCAP_BAD_STRUCT_DIALOG_PORT_TX
TCAP_BAD_STRUCT_TRANS_PORT_RX
TCAP_BAD_STRUCT_TRANS_PORT_TX
TCAP_BEGIN_MSG_RX
TCAP_BEGIN_MSG_TX
TCAP_BIND_CONFIRM_RX (Release 4.5)
TCAP_CLOSE_IND_RX (Release 4.5)
TCAP_COMPONENT_CONFIRM_RX (Release 4.5)
TCAP_COMPONENT_IND_RX (Release 4.5)
TCAP_COMPONENT_REQ_RX (Release 4.5)
TCAP_CONT_MSG_RX
TCAP_CONT_MSG_TX
TCAP_DATA_IND_RX (Release 4.5)
TCAP_DATA_REQ_RX (Release 4.5)
TCAP_DELIMITER_IND_RX (Release 4.5)

TCAP_DELIMITER_REQ_RX	(Release 4.5)
TCAP_DIALOG_CONFIRM_RX	(Release 4.5)
TCAP_DUP_INVOKE_ID_RX	
TCAP_DUP_INVOKE_ID_TX	
TCAP_END_MSG_RX	
TCAP_END_MSG_TX	
TCAP_INCONSIST_DIALOG_PORT_RX	
TCAP_INCONSIST_DIALOG_PORT_TX	
TCAP_INCORRECT_COMP_ENCODE_RX	
TCAP_INCORRECT_COMP_ENCODE_TX	
TCAP_INCORRECT_COMP_PORT_RX	
TCAP_INCORRECT_COMP_PORT_TX	
TCAP_INCORRECT_PARAM_RE_RX	
TCAP_INCORRECT_PARAM_RE_TX	
TCAP_INCORRECT_PARAM_RR_RX	
TCAP_INCORRECT_PARAM_RR_TX	
TCAP_INCORRECT_PARAM_RX	
TCAP_INCORRECT_PARAM_TX	
TCAP_INCORRECT_TRANS_PORT_RX	
TCAP_INCORRECT_TRANS_PORT_TX	
TCAP_INIT_REL_RX	
TCAP_INIT_REL_TX	
TCAP_INVOKE_COMP_RX	
TCAP_INVOKE_COMP_TX	
TCAP_INVOKE_RSCR_LIMIT_PROB_RX	
TCAP_INVOKE_RSCR_LIMIT_PROB_TX	
TCAP_MISSING_DIALOG_PORT_RX	
TCAP_MISSING_DIALOG_PORT_TX	
TCAP_NO_PERMISS_CONVERS_RX	
TCAP_NO_PERMISS_CONVERS_TX	
TCAP_NO_PERMISS_QUERY_RX	
TCAP_NO_PERMISS_QUERY_TX	
TCAP_NOTICE_IND_RX	(Release 4.5)
TCAP_OPEN_CONFIRM_RX	(Release 4.5)
TCAP_OPEN_IND_RX	(Release 4.5)
TCAP_OPERATION_CONFIRM_RX	(Release 4.5)
TCAP_OPERATION_IND_RX	(Release 4.5)
TCAP_OPERATION_REQ_RX	(Release 4.5)

TCAP_PERMISS_CONVERS_RX	
TCAP_PERMISS_CONVERS_TX	
TCAP_PERMISS_QUERY_RX	
TCAP_PERMISS_QUERY_TX	
TCAP_REJECT_COMP_RX	
TCAP_REJECT_COMP_TX	
TCAP_RETURN_ERR_COMP_RX	
TCAP_RETURN_ERR_COMP_TX	
TCAP_RETURN_RESULT_COMP_RX	
TCAP_RETURN_RESULT_COMP_TX	
TCAP_RSCR_LIMIT_RX	
TCAP_RSCR_LIMIT_TX	
TCAP_RSP_RX	
TCAP_RSP_TX	
TCAP_STAT_CONFIRM_RX	(Release 4.5)
TCAP_STAT_IND_RX	(Release 4.5)
TCAP_STATUS_IND_RX	(Release 4.5)
TCAP_TOTAL_COMP_RX	
TCAP_TOTAL_COMP_TX	
TCAP_TOTAL_DROPPED_MSG_RX	
TCAP_TOTAL_MSG_RX	
TCAP_TOTAL_MSG_TX	
TCAP_TOTAL_UNI_MSG_RX	
TCAP_TOTAL_UNI_MSG_TX	
TCAP_TRANS_PORT_PERM_REL_RX	
TCAP_TRANS_PORT_PERM_REL_TX	
TCAP_TRANSACTION_IDS_INUSE	
TCAP_UDATA_IND_RX	(Release 4.5)
TCAP_UNEXPECT_ERR_CODE_RX	
TCAP_UNEXPECT_ERR_CODE_TX	
TCAP_UNEXPECT_LINK_OPER_RX	
TCAP_UNEXPECT_LINK_OPER_TX	
TCAP_UNEXPECT_LINK_RSP_RX	
TCAP_UNEXPECT_LINK_RSP_TX	
TCAP_UNEXPECT_RE_RX	
TCAP_UNEXPECT_RE_TX	
TCAP_UNEXPECT_RR_RX	
TCAP_UNEXPECT_RR_TX	

TCAP_UNRECOG_COMP_RX	
TCAP_UNRECOG_COMP_TX	
TCAP_UNRECOG_DIALOG_PORT_ID_RX	
TCAP_UNRECOG_DIALOG_PORT_ID_TX	
TCAP_UNRECOG_ERR_CODE_RX	
TCAP_UNRECOG_ERR_CODE_TX	
TCAP_UNRECOG_INVOKE_ID_RX	
TCAP_UNRECOG_INVOKE_ID_TX	
TCAP_UNRECOG_LINK_ID_RX	
TCAP_UNRECOG_LINK_ID_TX	
TCAP_UNRECOG_MSG_TYPE_RX	
TCAP_UNRECOG_MSG_TYPE_TX	
TCAP_UNRECOG_OPCODE_RX	
TCAP_UNRECOG_OPCODE_TX	
TCAP_UNRECOG_RE_INVOKE_ID_RX	
TCAP_UNRECOG_RE_INVOKE_ID_TX	
TCAP_UNRECOG_TRANS_ID_RX	
TCAP_UNRECOG_TRANS_ID_TX	
TSA_ABORT_IND_RX	(Release 4.5)
TSA_CLOSE_IND_RX	(Release 4.5)
TSA_COMPONENT_CONFIRM_RX	(Release 4.5)
TSA_COMPONENT_IND_RX	(Release 4.5)
TSA_COMPONENT_REQ_RX	(Release 4.5)
TSA_DATA_IND_RX	(Release 4.5)
TSA_DATA_REQ_RX	(Release 4.5)
TSA_DELIMITER_IND_RX	(Release 4.5)
TSA_DELIMITER_REQ_RX	(Release 4.5)
TSA_DIALOG_CONFIRM_RX	(Release 4.5)
TSA_INAP_BIND_CONFIRM_RX	(Release 4.5)
TSA_INAP_NOTICE_IND_RX	(Release 4.5)
TSA_INAP_STAT_CONFIRM_RX	(Release 4.5)
TSA_INAP_STAT_IND_RX	(Release 4.5)
TSA_OPEN_CONFIRM_RX	(Release 4.5)
TSA_OPEN_IND_RX	(Release 4.5)
TSA_OPERATION_CONFIRM_RX	(Release 4.5)
TSA_OPERATION_IND_RX	(Release 4.5)
TSA_OPERATION_REQ_RX	(Release 4.5)
TSA_STATUS_IND_RX	(Release 4.5)

TSA_TCAP_BIND_CONFIRM_RX	(Release 4.5)
TSA_TCAP_NOTICE_IND_RX	(Release 4.5)
TSA_TCAP_STAT_CONFIRM_RX	(Release 4.5)
TSA_TCAP_STAT_IND_RX	(Release 4.5)
TSA_UDATA_IND_RX	(Release 4.5)

Trunk Group Usage Summary

The Trunk Group Usage Summary (tg-usage-summary) table provides trunk group usage information.

Table Name: TG-USAGE-SUMMARY

Table Containment Area: OAMP

Command Types

Report and show

Examples

```
show measurement-tg-usage-summary;  
report measurement-tg-usage-summary start-time=2002-03-27 10:00:00; end-time=2002-03-27  
12:00:00; tgn-id=dallas01; call-agent-id=CA146; output=tg-report; output-type=csv;
```

The following example uses the reporting option to gather statistics on a per-POP basis:

```
report measurement-tg-usage-summary start-time=2002-03-27 10:00:00; end-time=2002-03-27  
12:00:00; trkgrp-exchange=RONLVA31GT; trkgrp-name=RONKVACSDS0_LC; call-agent-id=CA146;  
output=tg-report; output-type=csv;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): tgn-id



Note

This table does not support on-demand requests.

Syntax Description

CALL-AGENT-ID	The identity of the call agent that collected the measurement data. VARCHAR(8): 1–8 ASCII characters. The form of the id is CAnnn or cannn where nnn = 000 to 999.
---------------	--

DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. Permitted values are: CONDITION INCOMING_BSY_TRK INCOMING_CALL_ATTMP INCOMING_USAGE NODENAME NUM_OF_OOS_TRK NUM_OF_OVERFLOW NUM_OF_TRUNK OUTBOUND_CALL_FAIL OUTGOING_BSY_TRK OUTGOING_CALL_ATTMP OUTGOING_USAGE TIMESTAMP TOTAL_USAGE TRK_GRP_ID TRK_GRP_TYPE TRKGRP_AVERAGE_USAGE TRKGRP_EXCHANGE (Release 4.5) TRKGRP_GLARE_COUNT (Release 4.5) TRKGRP_INCOM_ATTMP TRKGRP_INCOM_BUSY_TRK TRKGRP_INCOM_USAGE TRKGRP_LBLK_TRK_USAGE (Release 4.5) TRKGRP_MAINT_TRK_USAGE (Release 4.5) TRKGRP_NAME (Release 4.5) TRKGRP_OOS_TRK_USAGE (Release 4.5) TRKGRP_OUTBOUND_FAIL TRKGRP_OUTG_ATTMP TRKGRP_OUTG_BUSY_TRK TRKGRP_OUTG_USAGE TRKGRP_RBLK_TRK_USAGE (Release 4.5) TRKGRP_TOTAL_INS_TRK (Release 4.5) TRKGRP_TOTAL_OOS_TRK TRKGRP_TOTAL_OVERFLOW TRKGRP_TOTAL_TRK TRKGRP_TOTAL_USAGE TRKGRP_UEQP_TRK_USAGE (Release 4.5)
END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.

OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
START-TIME	Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). DATE and TIME: YYYY-MM-DD HH:MM:SS.
TGN-ID (or TG)	Mandatory for on-demand requests. Foreign key: Trunk Group table. Trunk group ID. You can use TG instead of tgn-id. INTEGER: 1–99999999.
TRKGRP-EXCHANGE (Release 4.5)	The trunk group exchange to report measurement data for. This value directly maps to the CLLI Code Id field in the Pop table. Applies only to the tg-usage measurement type. VARCHAR(11): 1–11 ASCII characters.
TRKGRP-NAME (Release 4.5)	The trunk group name to report measurement data for. This value directly maps to the CLLI field in the Trunk Group table. Applies only to the tg-usage measurement type. VARCHAR(15): 1–15 ASCII characters.

Measurement TSA Summary



Note

This table is obsoleted in Release 4.5. Display values are now in the Measurement TCAP Summary table.

The Measurement TCAP Signaling Adapter (TSA) Summary (measurement-tsa-summary) table requests a summary report of TSA-related statistics for a specified Call Agent that occurred during a specified collection interval (time-interval). Each collection interval starts on the hour, half-hour, or quarter-hour.

Table Name: MEASUREMENT-TSA-SUMMARY

Table Containment Area: OAMP

Command Types

Report, show and clear

Examples

```
show measurement-tsa-summary;
report measurement-tsa-summary start-time=2001-03-27 06:00:00; end-time=2001-03-27
06:30:00; call-agent-id=CA146;output-type=csv;
clear measurement-tsa-summary call-agent-id=CA146;
```

Usage Guidelines

Primary Key Token(s): None.

Foreign Key Token(s): call-agent-id

Syntax Description	CALL-AGENT-ID	Mandatory for on-demand requests. Foreign key: Call Agent table. The ID of the selected Call Agent. VARCHAR(8): 1–8 ASCII characters.
	DISPLAY	Specifies particular report counters to display on the screen. Display token values must be entered with an underscore (_). Do not use hyphens (-). STRING. See Table 11-19 for permitted values.
	END-TIME	Ending time for measurement summary. Enter all 19 ASCII characters as shown. DATE and TIME: YYYY-MM-DD HH:MM:SS.
	OUTPUT-TYPE	Specifies the desired output format. Permitted values are: CSV (Default)—Comma-separated view XML—Extensible Markup Language
	START-TIME	Mandatory for on-demand requests. Starting time for measurements summary. Enter all 19 ASCII characters as shown. Start-time must occur before end-time. Measurement items are available for the current and previous calendar days only (up to a maximum of 48 hours of events). If the time specified is during the current collection interval only, partial measurement counts are displayed. DATE and TIME: YYYY-MM-DD HH:MM:SS.
	SUM	Specifies whether the resulting report request must contain the individual interval reports (N) or a summation of all interval reports into one composite report (Y). CHAR(1): Y/N (Default = N).

[Table 11-19](#) lists the values for the Measurement TSA Summary Display token.

Table 11-19 Measurement TSA Summary Display Token Values

TSA_ABORT_IND_RX
TSA_CLOSE_IND_RX
TSA_COMPONENT_CONFIRM_RX
TSA_COMPONENT_IND_RX
TSA_COMPONENT_REQ_RX
TSA_DATA_IND_RX
TSA_DATA_REQ_RX
TSA_DELIMITER_IND_RX
TSA_DELIMITER_REQ_RX
TSA_DIALOG_CONFIRM_RX
TSA_INAP_BIND_CONFIRM_RX
TSA_INAP_NOTICE_IND_RX
TSA_INAP_STAT_CONFIRM_RX
TSA_INAP_STAT_IND_RX

TSA_OPEN_CONFIRM_RX
TSA_OPEN_IND_RX
TSA_OPERATION_CONFIRM_RX
TSA_OPERATION_IND_RX
TSA_OPERATION_REQ_RX
TSA_STATUS_IND_RX
TSA_TCAP_BIND_CONFIRM_RX
TSA_TCAP_NOTICE_IND_RX
TSA_TCAP_STAT_CONFIRM_RX
TSA_TCAP_STAT_IND_RX
TSA_UDATA_IND_RX

