



Configuring BAMS for 1110 Binary Output

Overview

This chapter describes the 1110 Binary billing record output by the Cisco Billing and Measurements Server (BAMS). You enable 1110 Binary output with the NODEPARMS tag ID. For more information, see the [“Updating the Node Parameters Table”](#) section on page 5-10.

Once you have configured your system for 1110 Binary output you may also need to adjust the default output values in the BIN1110 table (see the [“Updating the BIN1110 Table”](#) section on page 5-4). By default, a system configured to generate 1110 Binary output produces 1060 CDBs, and the output files have a BIN suffix.



Note

If the length of the data in the CDR file obtained from the Cisco PGW 2200 is greater than that which is expected by BAMS, the data value will be truncated.



Note

Default 1110 Binary output also includes 1090 (file header), 1100 (file footer), and 1110 (maintenance) CDB types.

1110 Binary Output

1110 Binary output files are created by the BIN task. These files are stored in the BIN1110 subdirectory of the `/data/nodename` directory (for example, `/data/s0x/BIN1110`). The fields contained in the BIN1110 output are explained in [Table 10-1](#), [Table 10-2](#), and [Table 10-3](#). The 1110 Binary file-naming conventions are explained in the [“File-Naming Conventions”](#) section on page A-4.

File Header (CDB 1090) Data Format

[Table 10-1](#) defines the file header’s tag, description, and information source.

Table 10-1 File Header (CDB 1090) Field Ordering

Tag	Description	Information Source
4000	CDB version	1
4001	CDB timepoint	Time written

Table 10-1 File Header (CDB 1090) Field Ordering (continued)

Tag	Description	Information Source
4002	Universal Call reference ID	Always 0, to be compatible with all other CDB layouts
6001	File start time	—
6000	Host Cisco MGC ID	—
6004	Cisco MGC software version	—

File Footer (CDB 1100) Data Format

Table 10-2 defines the file footer's tag, description, and information source.

Table 10-2 File Footer (CDB 1100) Field Ordering

Tag	Description	Information Source
4000	CDB version	1
4001	CDB timepoint	—
4002	Universal reference ID	Always 0, to be compatible with all other CDB layouts
6002	File end time	—
6003	Total number of CDB records	BAMS modifies this tag to match the number of records in the BAMS output. This tag counts both the header CDB and the footer CDB.
6000	Host Cisco MGC ID	—
6004	Cisco MGC software version	—

1110 and 1060 CDB Data Format

Table 10-3 defines the possible CDE fields; it does not refer to the actual offset of the CDE in the CDB because some CDE tags might not be present in the output.

Table 10-3 1110 and 1060 Field Index

Index	ANSI Tags		ITU Tags		Source CDB	In 1060?
	Tag	Description	Tag	Description		
1	5000	Unique Call Id (Mistral and Later)	5000	Unique Call Id (Mistral and later)	1030, 1040 for 1110 output. 1060 for 1060 output.	Y
2	4000	CDB Version	4000	CDB Version	1030, 1040 for 1110 output. 1060 for 1060 output.	Y
3	4001	CDB Timepoint	4001	CDB Timepoint	1030, 1040 for 1110 output. 1060 for 1060 output.	Y
4	4002	Call Reference ID	4002	Call Reference ID	1030, 1040 for 1110 output. 1060 for 1060 output.	Y

Table 10-3 1110 and 1060 Field Index (continued)

	ANSI Tags		ITU Tags			
5	4100	IAM/ Setup timepoint received - milliseconds	4100	IAM/ Setup timepoint received - milliseconds	From 1010 or 1030, and from 1060 only if no 1010 found.	Y
6	4101	IAM/ Setup timepoint sent - milliseconds	4101	IAM/ Setup timepoint sent - milliseconds	From 1010 or 1030, and from 1060 only if no 1010 found.	Y
7	4102	ACM/alert timepoint received - milliseconds	4102	ACM/alert timepoint received - milliseconds	From 1010 or 1030, and from 1060 only if no 1010 found.	Y
8	4103	ACM/alert timepoint sent - milliseconds	4103	ACM/alert timepoint sent - milliseconds	From 1010 or 1030, and from 1060 only if no 1010 found.	Y
9	4104	ANM/Ans. timepoint - received - milliseconds	4104	ANM/Ans. timepoint - received - milliseconds	From 1010 or 1030, and from 1060 only if no 1010 found.	Y
10	4105	ANM/Ans. timepoint - sent - milliseconds	4105	ANM/Ans. timepoint - sent - milliseconds	From 1010 or 1030, and from 1060 only if no 1010 found.	Y
11	4106	First REL/Release timepoint - milliseconds	4106	First REL/Release timepoint - milliseconds	1030 or 1040	N
12	4107	2nd REL/Release timepoint - milliseconds	4107	2nd REL/Release timepoint - milliseconds	1030 or 1040	N
13	4108	RLC/Rel complete timepoint sent - milliseconds	4108	RLC/Rel complete timepoint sent - milliseconds	1030 or 1040	N
14	4109	RLC/Rel complete timepoint rcvd - milliseconds	4109	RLC/Rel complete timepoint received - milliseconds	1030 or 1040	N
15	4008	Originating Trunk Group	4008	Originating Trunk Group	From 1010 or 1030, and from 1060 only if no 1010 found.	Y
16	4009	Originating member	4009	Originating member	From 1010 or 1030, and from 1060 only if no 1010 found.	Y
17	4010	Calling number	4010	Calling number	From 1010 or 1030, and from 1060 only if no 1010 found.	Y
18	4011	Charged number	4011	Charged number	From 1010 or 1030, and from 1060 only if no 1010 found.	Y

Table 10-3 1110 and 1060 Field Index (continued)

	ANSI Tags		ITU Tags			
19	4012	Dialed number	4012	Dialed number	From 1010 or 1030, and from 1060 only if no 1010 found.	Y
20	4014	Called number	4014	Called number	From 1010 or 1030, and from 1060 only if no 1010 found.	Y
21	4015	Terminating Trunk Group	4015	Terminating Trunk Group	From 1010 or 1030, and from 1060 only if no 1010 found.	Y
22	4016	Terminating member	4016	Terminating member	From 1010 or 1030, and from 1060 only if no 1010 found.	Y
23	4028	First release source	4028	First release source	1030 or 1040	N
24	4052	Originating Gateway Primary Select	4052	Originating Gateway Primary Select	1010	N
25	4053	Terminating Gateway Primary Select	4053	Terminating Gateway Primary Select	1010	N
26	4060	Redirecting Number	4060	Redirecting Number	From 1010 or 1030, and from 1060 only if no 1010 found.	Y
27	4061	Tariff Rate	4061	Tariff Rate	1030 or 1040	N
28	4062	Scale Factor	4062	Scale Factor	1030 or 1040	N
29	4063	Test Line Indicator	4063	Test Line Indicator	1010 or 1030	N
30	4201	Ingress SIP URL (Mistral and Later)	4201	Ingress SIP URL (Mistral and Later)	1010 or 1030	N
31	4202	Egress SIP URL (Mistral and Later)	4202	Egress SIP URL (Mistral and Later)	1010 or 1030	N
32	4203	SIP Callid	4203	SIP Callid	1010 or 1030	N
33	4204	Source IP Address	4204	Source IP Address	1010 or 1030	N
34	4205	Ingress Media Device Address	4205	Ingress Media Device Address	1010 or 1030	N
35	4206	Egress Media Device Address	4206	Ingress Media Device Address	1010 or 1030	N
36	4207	Initial Codec	4207	Initial Codec	1010 or 1030	N
37	4208	Final Codec	4208	Final Codec	1010, 1040 or 1030	N

Table 10-3 1110 and 1060 Field Index (continued)

	ANSI Tags		ITU Tags			
38	4209	Ingress Media Device Port Number	4209	Ingress Media Device Port Number	1010 or 1030	N
39	4210	Egress Media Device Port Number	4210	Egress Media Device Port Number	1010 or 1030	N
40	2000	CPC	3000	CPC	1010 or 1030	N
41	2001	User Service Information	3001	User Service Information	1010 or 1030	N
42	2002	Originating Line Information			1010 or 1030	N
43	2003	Calling number NOA	3003	Calling number NOA	1010 or 1030	N
44	2004	Charged number NOA		Does not exist for ITU	1010 or 1030	N
45	2005	Dialed number NOA	3005	Dialed number NOA	1010 or 1030	N
46	2007	Called Number NOA	3007	Called Number NOA	1010 or 1030	N
47	2008	Reason code	3008	Reason code	1030 or 1040	N
48	2013	Transit Network Selection	3013	Transit Network Selection	1010 or 1030	N
49	2015	Carrier Selection Parm			1010 or 1030	N
50	2017	Redirecting Number NOA)	3017	Redirecting Number NOA	1010 or 1030	N
51	4078	Charge Band Number	4078	Charge Band Number	1030 or 1040	N
52	4079	Furnish Charging Number	4079	Furnish Charging Number	1030 or 1040	N
53	4080	Original Called Number	4080	Original Called Number	1010 or 1030	N
54	4081	T.38 Fax Call	4081	T.38 Fax Call	1030 or 1040	N
55	4082	Charge Unit Number	4082	Charge Unit Number	1030 or 1040	N
56	4034	Ingress Originating Point Code	4034	Ingress Originating Point Code	1010 or 1030	N
57	4035	Ingress Destination Point Code	4035	Ingress Destination Point Code	1010 or 1030	N

Table 10-3 1110 and 1060 Field Index (continued)

	ANSI Tags		ITU Tags			
58	4036	Egress Originating Point Code	4036	Egress Originating Point Code	1010 or 1030	N
59	4037	Egress Destination Point Code	4037	Egress Destination Point Code	1010 or 1030	N
60	4046	Ingress Packet Info	4046	Ingress Packet Info	1040 or 1030	N
61	4047	Egress Packet Info	4047	Egress Packet Info	1040 or 1030	N
62	4068	Ingress BearChanId	4068	Ingress BearChanId	1010 or 1030	Y
63	4072	Egress BearChanId	4072	Egress BearChanId	1010 or 1030	Y
64	4083	Charge Indicator	4083	Charge Indicator	1010 or 1030	N
65	4084	Outgoing Calling Party Number	4084	Outgoing Calling Party Number	1010 or 1030	N
66	4085	MCID Request Indicator	4085	MCID Request Indicator	1010 or 1030	N
67	4086	MCID Response Indicator	4086	MCID Response Indicator	1010 or 1030	N
68	4087	Ingress MGCP DLCX (Delete Connection) return code value	4087	Ingress MGCP DLCX (Delete Connection) return code value	1040 or 1030	N
69	4088	Egress MGCP DLCX (Delete Connection) return code value	4088	Egress MGCP DLCX (Delete Connection) return code value	1040 or 1030	N
70	4089	Network Translated Address Indicator	4089	Network Translated Address Indicator	1010 or 1030	N
71	4090	Reservation Request Accepted	4090	Reservation Request Accepted	1010, 1040, or 1030	N
72	4091	Reservation Request Error Count	4091	Reservation Request Error Count	1040 or 1030	N
73	4092	ATM Ingress Configured Profile	4092	ATM Ingress Configured Profile	1010 or 1030	N
74	4093	ATM Egress Configured Profile	4093	ATM Egress Configured Profile	1010 or 1030	N
75	4094	ATM Negotiated Profile	4094	ATM Negotiated Profile	1010 or 1030	N
76	4095	Route List Name	4095	Route List Name	1010 or 1030	N

Table 10-3 1110 and 1060 Field Index (continued)

	ANSI Tags		ITU Tags			
77	4096	Route Name	4096	Route Name	1010 or 1030	N
78	4097	MGCP Script Response String	4097	MGCP Script Response String	1040	N
79	4098	Originating Leg DSP Statistics	4098	Originating Leg DSP Statistics	1030 or 1040	N
80	4099	Terminating Leg DSP Statistics	4099	Terminating Leg DSP Statistics	1030 or 1040	N
81	4211	Originating VPN ID	4211	Originating VPN ID	1010 or 1030	N
82	4212	Terminating VPN ID	4212	Terminating VPN ID	1010 or 1030	N
83	4213	Meter Pulses Received	4213	Meter Pulses Received	1040	N
84	4214	Meter Pulses Sent	4214	Meter Pulses Sent	1040	N
85	4215	Charge Tariff Info	4215	Charge Tariff Info	1040	N
86	4216	Advice of Charge Indicator	4216	Advice of Charge Indicator	1040	N
87	4217	Short Call Indicator	4217	Short Call Indicator	1040	N
88	4218	Charge Limit Exceeded	4218	Charge Limit Exceeded	1040	N
89	4219	CALL Recovered Indication	4219	CALL Recovered Indication	1040	N
90	4220	Partial CLI	4220	Partial CLI	1010 or 1030	Y
91	4221	Service Activation	4221	Service Activation	1030 or 1040	N
92	4222	PRI AOC Invoke Type	4222	PRI AOC Invoke Type	1030 or 1040	N
93	4223	PRI AOC - S Charge Information	4223	PRI AOC—S Charge Information	1030 or 1040	N
94	4224	PRI AOC - D Charge Information	4224	PRI AOC—D Charge Information	1030 or 1040	N
95	4225	PRI AOC - E Charge Information	4225	PRI AOC—E Charge Information	1030 or 1040	N
96	4226	PRI AOC Invoke Failure	4226	PRI AOC Invoke Failure	1030 or 1040	N

