



CHAPTER 10

Configuring BAMS for 1110 Binary Output

Revised: March 10, 2011, OL-11618-18

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 5-11](#).

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

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 [“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 |
| 4002 | Universal Call reference ID | Always 0, to be compatible with all other CDB layouts |

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

| Tag | Description | Information Source |
|------|----------------------------|--------------------|
| 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 may not be present in the output.

Table 10-3 1110 and 1060 Field Index

| Index | ANSI PGW CDE Tags | | ITU PGW CDE 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)

| Index | ANSI PGW CDE Tags | | ITU PGW CDE Tags | | Source CDB | In 1060? |
|-------|-------------------|--|------------------|--|---|----------|
| 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)

| Index | ANSI PGW CDE Tags | | ITU PGW CDE Tags | | Source CDB | In 1060? |
|-------|-------------------|-------------------------------------|------------------|-------------------------------------|---|----------|
| 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)

| Index | ANSI PGW CDE Tags | | ITU PGW CDE Tags | | Source CDB | In 1060? |
|-------|-------------------|----------------------------------|------------------|----------------------------------|--------------|----------|
| 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)

| Index | ANSI PGW CDE Tags | | ITU PGW CDE Tags | | Source CDB | In 1060? |
|-------|-------------------|---|------------------|---|--------------------|----------|
| 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)

| Index | ANSI PGW CDE Tags | | ITU PGW CDE Tags | | Source CDB | In 1060? |
|-------|-------------------|--|------------------|--|--------------|----------|
| 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 |
| 97 | 4227 | Route Optimization/Path Replacement action | 4227 | Route Optimization/Path Replacement action | 1040 | N |

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

| Index | ANSI PGW CDE Tags | | ITU PGW CDE Tags | | Source CDB | In 1060? |
|-------|-------------------|--|------------------|--|--------------|----------|
| 98 | 4228 | Route Optimization / Path Replacement call reference of associated call instance | 4228 | Route Optimization / Path Replacement call reference of associated call instance | 1040 | N |
| 99 | 4229 | Route Optimization / Path Replacement trunk group information | 4229 | Route Optimization / Path Replacement trunk group information | 1040 | N |
| 100 | 4230 | Route Optimization / Path Replacement channel information | 4230 | Route Optimization / Path Replacement channel information | 1040 | N |
| 101 | 4231 | Route Optimization Switchover Timestamp | 4231 | Route Optimization Switchover Timestamp | 1040 | N |
| 102 | 4232 | Rejecting Location Label | 4232 | Rejecting Location Label | 1030 | N |
| 103 | 4233 | Rejecting Location Label Direction | 4233 | Rejecting Location Label Direction | 1030 | N |
| 104 | 4236 | H323 Destination | 4236 | H323 Destination | 1030 or 1040 | N |
| 105 | 4237 | Ingress Redirecting Number | 4237 | Ingress Redirecting Number | 1010 or 1030 | Y |
| 107 | 4239 | Service Usage Data | 4239 | Service Usage Data | 1030 or 1040 | N |
| 109 | 4242 | Terminating Remote SIP Host | 4242 | Terminating Remote SIP Host | 1010 or 1030 | N |
| 110 | 4243 | Terminating Local SIP Host | 4243 | Terminating Local SIP Host | 1010 or 1030 | N |
| 111 | 4244 | License Reject License Protocol | 4244 | License Reject License Protocol | 1030 | N |
| 112 | 4245 | License Rejecting Direction | 4245 | License Rejecting Direction | 1030 | N |
| 113 | 4013 | LRN number | 4013 | LRN number | 1010 or 1030 | Y |
| 114 | 2018 | ANSI Egress Calling number Nature of Address | 3018 | ANSI Egress Calling number Nature of Address | 1010 or 1030 | Y |

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

| Index | ANSI PGW CDE Tags | | ITU PGW CDE Tags | | Source CDB | In 1060? |
|--------------|--------------------------|---|-------------------------|---|-------------------|-----------------|
| 115 | 2019 | ANSI Egress Redirecting number Nature of Address | 3019 | ANSI Egress Redirecting number Nature of Address | 1010 or 1030 | Y |
| 116 | 2020 | ANSI Egress Original Called Number Nature of Address | 3020 | ANSI Egress Original Called Number Nature of Address | 1010 or 1030 | Y |

