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## 2. ASCII File Format

#### 2.1. Overview

Although all pre-election and election night messages vary in content, some formatting characteristics remain consistent throughout all message files. The characteristics are:

- All messages start with an open bracket '[' and terminate with a close bracket ']'. (**Note**: This is a change from previous elections.)
- A vertical bar '|' separates fields within all messages.
- A carriage return and line feed indicate the end of a record.
- Leading zeros '0' are suppressed on numeric fields.
- A single zero '0' represents a numeric field that contains a zero value.
- A single blank character ' ' represents an alphanumeric field that contains no data.
- All messages begin with the following three data fields:

Field	Length	Data Type	Message Description
Message Type	1	Alpha	Identifies the type of message
			Message Description
			B Beginning of a message set
			E End of a message set
			A County reporting status
			C Candidate information
			P Precinct numbers by county
			R Contest codes and descriptions
			S County codes and names
			V Voting results
File Source	3	Alpha	Identifies the <b>CA</b> lifornia <b>S</b> ecretary of State's office as the
			source of the file
			<ul> <li>The value will always be 'CAS'.</li> </ul>
			·

Field	Length	Data Type	Message Description
Sequence	Variable	Numeric	Sequential number assigned to each record
Number	1-4		<ul> <li>The sequence number for the first record in the file will always be '1'.</li> </ul>
			The sequence number is incremented by 1 for each subsequent message.
			<ul> <li>To ensure all messages are received correctly, the sequence numbers in each message file should be checked.</li> </ul>

## 2.2. File Name and Size

The file name for the ASCII file is MyyEE.txt where:

M Message Type

<u>Value</u>	<u>Description</u>
С	Candidate message
Р	Precinct message
R	Contest message
S	County codes message
V	Voting results message

yy Election Year

EE Election Type

<u>Value</u>	<u>Description</u>
PP	Presidential Primary
PG	Presidential General
DP	Direct Primary
GP	Gubernatorial Primary
GG	Gubernatorial General
SS	Statewide Special

The file names are case sensitive. The file names for the 2016 Presidential Primary Election are listed in the table below:

Message Type	Presidential Data	Non-Presidential Data	
С	C16PP.txt	C16DP.txt	
Р	P16PP.txt	P16DP.txt	
R	R16PP.txt	R16DP.txt	
S	S16PP.txt	S16DP.txt	
V	V16PP.txt	V16DP.txt	

## 2.3. Election Night Results

The data files created during the semi-official canvass include the 'A' messages (county reporting status) and the 'V' messages (voting results) in **one** file. The set of 'A' messages will appear in the file first, followed by the set of 'V' messages. The file includes the following messages:

Message	Description
В	Beginning of 'A' messages
Α	County status
E	End of 'A' messages
В	Beginning of 'V' messages
V	Election results
E	End of 'V' messages

## 2.4. Message Description

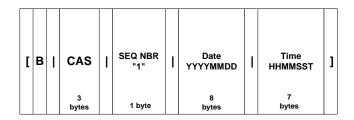
Descriptions of the first three fields in each message file (Message Type Indicator, 'CAS', and Sequence Number) are noted previously in this document, and therefore are omitted from each of the following descriptions.

## 2.4.1. 'B' - Begin Messages

The 'B' message indicates the beginning of a new set of messages.

#### Sample

[B|CAS|1|20101102|2119040]



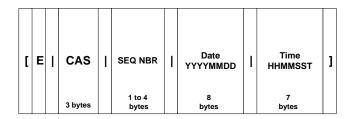
Field	Length	Data Type	Message Description
Date	8	Numeric	Date the message was created - YYYYMMDD
Time	7	Numeric	Time the message was created - HHMMSST

## 2.4.2. 'E' - End Messages

The 'E' message indicates the end of a set of messages.

## **Sample**

[E|CAS|61|20101102|2120140]



Field	Length	Data Type	Message Description
Date	8	Numeric	Date the message was created - YYYYMMDD
Time	7	Numeric	Time the message was created - HHMMSST

## 2.4.3. 'A' - County Reporting Status Messages

The 'A' message provides the county reporting status for the semi-official canvass.

### File Structure

Message	Description
В	Beginning of message set
Α	County status
E	End of message set

## Sample File

[B|CAS|1|20120419|1331130]

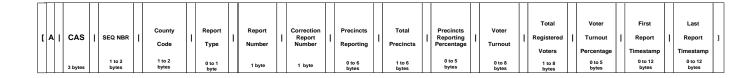
[A|CAS|2|01|R|0|0|795|1004|79.2|571897|744707|76.8|201204191324|201204191324]

• • •

. . .

[A|CAS|60|59|R|0|0|18388|22249|82.6|13658159|17028290|80.2|201204191324|201204191329]

[E|CAS|61|20120419|1334460]



Field	Length	Data Type	Message Description
County Code	2	Alphanumeric	Identifies the county         The counties are numbered in ascending sequential order proceeding alphabetically.          County 59 identifies a record that contains statewide information.

Field	Length	Data Type	Message Description
Report Type	Variable 0-1	Alphanumeric	Type of report submitted  Null – No Report No report has been received by the county or all previous reports were removed by the county due to corrective action.  R – Regular Report The county submits regular reports during the semi-official canvass until the Final Report The county has completed the reporting for the semi-official canvass. The precincts reporting will equal the total precincts in the county for statewide contests.  U – Update Report The county submits update reports after a Final Report is submitted whenever the number of votes for a candidate or a ballot measure changes. The update reports are considered part of the semi-official canvass.  S – County Canvass Complete Returns are updated as county elections officials complete the official canvass and process ballots during the 28-day post-election canvass period.
Report Number	1	Numeric	Defaults to zero.
Correction Report Number	1	Numeric	Defaults to zero.
Precincts Reporting	Variable 0-6	Numeric	<ul><li>Number of precincts reporting</li><li>If zero, the field is null.</li></ul>
Total Precincts	Variable 1-6	Numeric	Total number of precincts for the contest              The Total Precincts is subject to change if a county needs to adjust the total precinct counts prior to submitting the Final Report.
Precincts Reporting Percentage	Variable 0-5	Numeric	Percentage of precincts reported  If zero, the field is null.  The number will never be 100% until the county submits the Final Report.
Voter Turnout	Variable 0-8	Numeric	Number of ballots cast  If zero, the field is null.
Total Registered Voters	Variable 1-8	Numeric	Number of registered voters  The field will contain test data until the 15-day close of voter registration.

Field	Length	Data Type	Message Description
Voter Turnout Percentage	Variable 0-5	Numeric	Percentage derived by dividing voter turnout by total registered voters  The field is null until a county submits a report.  The display is one-tenth of a percent, but the decimal point is present only when the tenth of a percent digit is <b>not</b> zero.
First Report Timestamp	Variable 0-12	Numeric	Note: This field has changed to include the Year and is now twelve bytes instead of eight.  Timestamp Format YYYYMMDDhhmm, where:  YYYY Is a four-digit number that represents the year when the report was submitted.  MM Is a two-digit number, ranging from 01 to 12, that represents the month when the report was submitted.  DD Is a two-digit number, ranging from 01 to 31, that represents the day of the month when the report was submitted.  hh Is a two-digit number, ranging from 00 to 23, that represents the hour when the report was submitted.  mm Is a two digit-number, ranging from 00 to 59, that represents the minute.  For the county 59 record, the field contains the timestamp of the first county to report.

Field	Length	Data Type	Message Description
Last Report Timestamp	Variable 0-12	Numeric	Time the county submitted the latest report  Note: This field has changed to include the Year and is
			now twelve bytes instead of eight.  Timestamp Format YYYYMMDDhhmm, where:
			YYYY Is a four-digit number, that represents the year when the report was submitted.
			MM Is a two-digit number, ranging from 01 to 12, that represents the month when the report was submitted.
			DD Is a two-digit number, ranging from 01 to 31, that represents the day of the month when the report was submitted.
			hh Is a two-digit number, ranging from 00 to 23, that represents the hour when the report was submitted.
			mm Is a two digit-number, ranging from 00 to 59, that represents the minute.
			If the county has not submitted a report, the field is null.
			For the county 59 record, the field contains the timestamp of the latest county to report.

### 2.4.4. 'V' - Vote Messages

The 'V' message provides the election results.

Candidate names within a specific contest may not be presented in the same order as found in 'C' messages. Results are presented in numerical county sequence with county 59 representing statewide results as the **first** set of results for each contest.

#### File Structure

Message	Description
В	Beginning of message file
V	Election results
E	End of message file

#### Sample File

[B|CAS|1|20120419|1331130]

[V|CAS|2|10000000001|59|18388|22249|R|173|3567502|27.1|26.1|158|6517954|49.4| 47.7|265|1637195|12.4|12.0]

- - -

[V|CAS|658|190000000029|58|38|46|R|YES|4081|18.0|NO|18592|82.0]

[E|CAS|659|20120419|1334460]

### For a candidate contest:

	Candidate 1		More Candidates if Necessary
[ V   CAS   SEQ   Contest   NBR   C   NBR   R   F   F   F   F   F   F   F   F	Cand Id Totals 1 to 5 bytes bytes 1 to 5 byt	1 to n Cands	Cand I Total State System 1 to 5 bytes   Total System 1 to 5 bytes   Total System 2 to 5 bytes   Total System 3 to
Y   S G   S   T   T   T   T   T   T   T   T   T	One per candidate for this record		One per candidate for this record

## For a ballot measure contest:

	Yes Votes No Votes	
Contest Id C C C C C C C C C C C C C C C C C C	YES   Yes Vote Totals   Percent of Yes votes   NO   No Vote Totals   Percent of No votes   1 to 8 bytes   1 to 5 bytes   1 to 8 bytes   1 to 5 bytes   1 to	1

Etalal	1	Data Tuma	Manage Description
Field	Length	Data Type	Message Description
Contest Id	12	Alphanumeric	Identifies the type of contest
			<b>Note</b> : See <b>Appendices</b> at <a href="https://www.sos.ca.gov/media">www.sos.ca.gov/media</a> for detailed information on the structure of the Contest Id.
County Code	Variable	Alphanumeric	Identifies the county
	1-2	·	The counties are numbered in ascending sequential order proceeding alphabetically.
			<ul> <li>County 59 identifies a record contains statewide information.</li> </ul>
Precincts Reporting	Variable 1-6	Numeric	Number of precincts reporting
Total Precincts	Variable 1-6	Numeric	Total number of precincts in this contest     The total number of precincts is subject to change if a county needs to adjust the total precinct counts prior to submitting the Final Report.

Field	Length	Data Type	Message Description
Report Type	1	Alphanumeric	Type of report submitted
		,	Null – No Report     No report has been received by the county     or all previous reports were removed by the     county due to corrective action.
			R – Regular Report     The county submits regular reports during     the semi-official canvass until the Final     Report.
			F – Final Report     The county has completed the reporting for the semi-official canvass. The precincts reporting will equal the total precincts in the county for statewide contests.
			U – Update Report     The county submits update reports after a     Final Report is submitted whenever the     number of votes for a candidate or a ballot     measure changes. The update reports are     considered part of the semi-official canvass.
			S – County Canvass Complete Returns are updated as county elections officials complete the official canvass and process ballots during the 28-day post- election canvass period.
Candidate Id	Variable 1-5	Alphanumeric	Uniquely identifies the candidate  • Assigned by the Secretary of State's office.
			<ul> <li>There is <b>no</b> maximum number of candidate Id's per message record.</li> </ul>
Votes	Variable 1-8	Numeric	Number of votes for the candidate OR Number of yes/no votes
Percent within Party	Variable 1-5	Numeric	Candidate's percentage of votes within his/her respective party  The display is one-tenth of a percent, but the decimal point is present only when the tenth of a percent digit is <b>not</b> zero.
			Leading zeros are suppressed.
			Zero percent displays as 0.
			The sum of the percent by party for all candidates in a multiple-party contest can and will exceed 100.0%.

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Field	Length	Data Type	Message Description
Percent within Contest	Variable 1-5	Numeric	Candidate's percentage of votes within his/her respective party  The display is one-tenth of a percent, but the decimal point is present only when the tenth of a percent digit is <b>not</b> zero.  Leading zeros are suppressed.  Zero percent displays as 0.  The sum of percentages for <b>all</b> candidates
			in a contest will always total 100.0%.

## 2.4.5. 'C' - Candidate Messages

The 'C' message links candidates with a particular contest or contests. In the rare case where a candidate is running in more than one contest monitored by the Secretary of State's office, the candidate will receive a unique Candidate Id for each qualified contest.

#### File Structure

Message	Description
В	Beginning of message file
С	Candidate
Е	End of message file

#### Sample File

[B|CAS|1|20120418|1018510]

[C|CAS|2|10000000001|158||Fernald|Colleen|Shea|01|Colleen Shea Fernald]

. . .

[C|CAS|582|19000000029|||Cigarette Tax||||Cigarette Tax]

[E|CAS|583|20120418|1355490]

[	C	CAS	I	SEQ NBR	I	Contest Id	I	Cand Id	I	I N C U M B E	I	Last Name or Ballot Measure Name	I	First Name	ı	Middle Name	ı	Party Code	I	Candidate Name as it Appears on the Ballot	1
		3 bytes		1 to 4 bytes		12 bytes		1 to 5 bytes		N T		1 to 50 bytes		1 to 25 bytes		1 to 25 bytes		2 bytes		1 to 50 bytes	

Field	Length	Data Type	Message Description
Contest Id	12	Alphanumeric	Identifies the type of contest
			<b>Note</b> : See <b>Appendices</b> at <a href="https://www.sos.ca.gov/media">www.sos.ca.gov/media</a> for detailed information on the structure of the Contest Id.
Candidate Id	Variable 1-5	Alphanumeric	Uniquely identifies the candidate     Assigned by the Secretary of State's office.      The number is unique to the candidate and the contest in which the candidate is running.
Incumbent Indicator	1	Alphanumeric	<ul> <li>For ballot measure contests, the field is null.</li> <li>Identifies the candidate as the current officeholder seeking re-election</li> <li>If the candidate is the current officeholder, the value is a single asterisk character (*).</li> <li>If the candidate is not the incumbent, the value is null.</li> </ul>
Last Name OR Ballot Measure Name	Variable 1-50	Alphanumeric	Last name of the candidate as it appears on the ballot OR Ballot measure name
First Name	Variable 1-25	Alphanumeric	First name of the candidate as it appears on the ballot
Middle Name	Variable 1-25	Alphanumeric	Middle name of the candidate as it appears on the ballot
Party Code	2	Alphanumeric	ValueDescriptionBlankNot Applicable00Not a Party Contest01Democratic Party02Republican Party03American Independent Party04Green Party05Libertarian Party08Peace and Freedom Party13Nonpartisan14No Party Preference
Candidate Name as it Appears on the Ballot	Variable 1-50	Alphanumeric	The full name of the candidate as it will appear on the ballot

### 2.4.6. 'P' - Precinct Messages

The 'P' message provides the number of precincts for each county.

The number of precincts for each county is not available until after the 15-day close of voter registration. For the 2016 Presidential Primary Election, the 15-day close of voter registration is Monday, May 23, 2016.

This file will contain test data until the actual precinct counts are received from all counties. Whenever a county changes the precinct count, media clients will be notified by the Secretary of State's office.

#### File Structure

Message	Description
В	Beginning of message file
Р	Precinct
E	End of message file

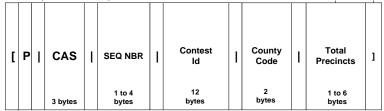
### Sample File

[B|CAS|1|20120418|1018510] [P|CAS|2|10000000001|59|30615]...

. . .

[P|CAS|658|19000000029|58|46]

[E|CAS|659|20120418|1355540]



Field	Length	Data Type	Message Description
Contest Id	12	Alphanumeric	Identifies the type of contest  Note: See Appendices at <a href="https://www.sos.ca.gov/media">www.sos.ca.gov/media</a> for detailed information on the structure of the Contest Id.
County Code	2	Alphanumeric	Identifies the county         The counties are numbered in ascending sequential order proceeding alphabetically.         County 59 indicates the record contains statewide information.
Total Precincts	Variable 1-6	Alphanumeric	Total number of precincts for the contest  The total number of precincts is subject to change if a county needs to adjust the total precincts count prior to submitting the Final Report.

## 2.4.7. 'R' - Contest Messages

The 'R' message provides the contest identifiers and the description.

#### File Structure

Message	Description			
В	Beginning of message file			
R	Contest description			
E	End of message file			

## Sample file

[B|CAS|1|20120418|1018510]

[R|CAS|2|10000000001|US Senate - 1|DP]

[R|CAS|3|110000010000|United States Representative District 1|DP]

•••

[R|CAS|157|190000000029|Tax on Cigarettes for Cancer Research|DP]

[E|CAS|158|20120418|1355570]

[	R	I	CAS	ı	SEQ NBR	ı	Contest Id	ı	Contest Description	I	Election Type	1
			3 bytes		1 to 3 bytes		12 bytes		1 to 40 bytes		2 bytes	

Field	Length	Data Type	Message Description				
Contest Id	12	Alphanumeric	Identifies the type of contest				
			Note: See Appendices at <a href="https://www.sos.ca.gov/media">www.sos.ca.gov/media</a> for detailed information on the structure of the Contest Id.				
Contest Description	Variable 1-40	Alphanumeric	Name of the office, ballot measure (short description) or judgeship confirmation				
Election Type	2	Alphanumeric	Identifies the type of election:				
			ValueDescriptionPPPresidential PrimaryPGPresidential GeneralDDDirect PrimaryGPGubernatorial PrimaryGGGubernatorial GeneralSSStatewide Special				

## 2.4.8. 'S' - Statewide Messages

The 'S' message associates the county name with the county code.

#### File Structure

Message	Description
В	Beginning of message file
S	Statewide
Е	End of message file

## <u>Sample</u>

[B|CAS|1|20120418|1018510] [S|CAS|2|01|Alameda]

• • •

[S|CAS|60|59|California] [E|CAS|61|20120418|1355580]

]	s	ı	CAS	I	SEQ NBR	I	County Code	I	County Name	]	
			3 bytes		1 to 2 bytes		2 bytes		1 to 15 bytes		

Field	Length	Data Type	Message Description
County Code	2	Alphanumeric	Identifies the county         The counties are numbered in ascending sequential order proceeding alphabetically.          County 59 indicates the record contains statewide information.
County Name	Variable 1-15	Alphanumeric	County name