



Clear Ballot

## **ClearVote 2.1**

### **ClearDesign Ballot Definition File Guide**

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# ClearDesign Ballot Definition File Guide

Clear Ballot Part Number: 100131-10017

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## Preface

This section defines the purpose of this document. It contains the following subsections.

- About this document
- Scope of this document
- Intended audience
- Contact us

## About this document

This document describes the content of the ClearDesign ballot definition file (BDF).



A ClearVote® system can comprise the ClearAccess®, ClearAudit®, ClearCast®, ClearCount®, and ClearDesign® products. Jurisdictions are not required to purchase all products. You can ignore references to any ClearVote products that are not part of your voting system. Also ignore implementation options that are not relevant to your policies and procedures.

## Scope of this document

This document contains the following chapters:

- [Chapter 1. Contents of a BDF](#)
- [Chapter 2. Contents of individual CSV files](#)

## Intended audience

The document is for state and federal election officials and their voting system test laboratories as part of the Technical Data Package (TDP) required to certify the ClearVote system for use. This document is also used by Clear Ballot personnel who support election officials and staff.

## Contact us

Clear Ballot Group welcomes your feedback on our documentation. Please send comments to [Documentation@ClearBallot.com](mailto:Documentation@ClearBallot.com).

If you have questions about using your product, contact your Clear Ballot representative.

## Chapter 1. Contents of a BDF

This chapter describes a BDF and provides a high-level overview of its contents.

### 1.1 What is a BDF?

A ballot definition file (BDF) is a zipped file created by the ClearDesign election management system (EMS) that describes an election. The ClearCount and ClearCast systems use the BDF to create an election database. Most files in the BDF zipped file are standard comma-separated values (CSV) files. Each CSV file corresponds to a table created in the election database. Each record in a CSV file describes one record in the corresponding database table.

### 1.2 What is a BDFx?

By default, ClearDesign 2.0 and later produces an encrypted BDF file called BDFx. The BDFx contains the functionality of a BDF, but with encryption added for security.

Encryption reduces the vulnerability of brute-force attacks on the file's password. ClearDesign uses the PBKDF2 (Password-Based Key Derivation Function 2) encryption mechanism, which is part of the RSA Laboratory Public-Key Cryptography Standards (PKCS).

The encrypted BDFx ends in "bdfx.zip." This zipped file contains an unencrypted config.json file and the encrypted election.bdfx content.

A configuration option for an election enables you to turn off encryption so that you can generate an unencrypted BDF.

### 1.3 CSV files contained in a BDF

Table 1-1 lists and describes each CSV file contained in a BDF or BDFx.

For a description of the contents of the individual CSV files, see "Contents of individual CSV files" on page 10.

**Table 1-1. CSV files contained in a BDF or BDFx**

| File             | Description                                                                            |
|------------------|----------------------------------------------------------------------------------------|
| ballotmapper.csv | Each record describes a single vote target in the election.                            |
| cards.csv        | Each record describes the card number of a given BallotStyleID on a multiscard ballot. |
| choices.csv      | Each record describes a single choice in a single contest.                             |

**Table 1-1. CSV files contained in a BDF or BDFx (continued)**

| File              | Description                                                                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| config.json       | This file contains one record for each of the CSV files. Each record names the file and specifies the HMAC signature that verifies that the contents of the file have not been altered. |
| contestmap.csv    | Each record describes the geometric location of a given contest appearing on a given ballot style.                                                                                      |
| contests.csv      | Each record describes a single contest in the election.                                                                                                                                 |
| districtcats.csv  | Each record describes a single district category in the election.                                                                                                                       |
| districtmap.csv   | This file provides the many-to-many mapping between a particular (precinct, ballot style) tuple and the districts that correspond to it.                                                |
| districts.csv     | Each record describes a single district and the district category to which it belongs.                                                                                                  |
| language.csv      | Each record maps a language name to a language ID.                                                                                                                                      |
| messages.csv      | Each record maps a message ID to a language and the message text.                                                                                                                       |
| metadata.csv      | This single record describes the attributes of an election.                                                                                                                             |
| parties.csv       | Each record describes a single party.                                                                                                                                                   |
| precincts.csv     | Each record describes a whole precinct or a combination of precinct and style.                                                                                                          |
| regvoters.csv     | Each record contains the number of registered voters for a given precinct and ballot style.                                                                                             |
| votecentermap.csv | Each record maps a ballot style and precinct to a given vote center.                                                                                                                    |
| votecenters.csv   | Each record specifies the VoteCenterCategoryName and the VoteCenterName that is associated with each VoteCenterID.                                                                      |
| votergroups.csv   | Each record describes a single counter group.                                                                                                                                           |

## 1.4 The config.json files

An unencrypted BDF zipped file contains a config.json file that contains a separate record for each CSV file. Each record names the file and contains the HMAC signature. The HMAC signature verifies that the file contents have not been altered. An HMAC signature is basically a FIPS 140-2-compliant message digest of a password concatenated with the file contents.

Table 1-2 describes the content of the config.json file contained in an unencrypted BDF.

**Table 1-2. Contents of the config.json file in an unencrypted BDF**

| Field                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| format                                                    | "CLEARBALLOT_BDF"<br><br>This value confirms that this file is a Clear Ballot BDF.                                                                                                                                                                                                                                                                                                         |
| version                                                   | The version of the BDF. This value changes whenever the BDF format changes.                                                                                                                                                                                                                                                                                                                |
| application_name                                          | "ClearDesign"<br><br>The name of the application that created the BDF.                                                                                                                                                                                                                                                                                                                     |
| application_version                                       | The version of the application that created the BDF.                                                                                                                                                                                                                                                                                                                                       |
| media_date                                                | The creation date, in ISO format, of the BDF.                                                                                                                                                                                                                                                                                                                                              |
| media_version                                             | The version of the election. The value changes whenever the content of the BDF changes.                                                                                                                                                                                                                                                                                                    |
| media_copy                                                | This value is set to 0 when the version changes and increments each time a BDF is created from the application.                                                                                                                                                                                                                                                                            |
| election_code                                             | The PBKDF2 seed and the encoded randomly generated election key.<br><br>The election key is encoded using Advanced Encryption Standard (AES), where the key is the PBKDF2 hash of the user-entered election password and the seed.                                                                                                                                                         |
| pollworker_code                                           | The PBKDF2 seed and the encoded randomly generated election key.<br><br>The election key is encoded using AES, where the key is the PBKDF2 hash of the user-entered poll worker password and the seed.                                                                                                                                                                                     |
| <filename>.csv<br><filename>.csv<br>...<br><filename>.csv | The value associated with each named file is an initial vector (IV) and an HMAC, separated by a vertical bar ' '.<br><br>The HMAC is calculated using a FIPS 140-2 approved message digest algorithm. The inputs to the digest are the single password used for every CSV file in this zipped file, the individual IV for a given CSV file, and the text of the CSV file.                  |
| media_hash                                                | The media_hash is the SHA256 hash, stored as a hexadecimal string, of all the data in the following files (in order of hashing): parties.csv, precincts.csv, contests.csv, choices.csv, contestmap.csv, ballotmapper.csv, votergroups.csv, cards.csv, districtmap.csv, districtcats.csv, districts.csv, regvoters.csv, votecenters.csv, votecentermap.csv, language.csv, and messages.csv. |

Table 1-3 describes the content of the config.json file contained in an encrypted BDFx.

**Table 1-3. Contents of the config.json file in an encrypted BDFx**

| Field              | Description                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| jurisdictionName   | The name of the jurisdiction. The user who creates the election supplies this value in the Jurisdiction Name field of the Election dialog. |
| format             | "CLEARBALLOT_BDFX"<br><br>This value confirms that this file is an encrypted Clear Ballot BDFx.                                            |
| electionName       | The name of the election. The user who creates the election supplies this value in the Election Name field of the Election dialog.         |
| creationDate       | The date, in ISO format, that the election was created.<br><br>Example: 2018-12-21T19:06:44.581146                                         |
| electionDate       | The date, in YYYY-MM-DD format, scheduled for the election.                                                                                |
| applicationName    | "ClearDesign"<br><br>The name of the application that created the BDFx.                                                                    |
| applicationVersion | The version of the application.<br><br>Example: 2.0.0b                                                                                     |
| mediaDate          | The creation date, in ISO format, of the BDFx.<br><br>Example: "2018-12-18T20:24:12"                                                       |
| mediaCopy          | This value is set to 0 when the version changes and increments each time a BDFx is created from the application.                           |
| version            | Increments when the data in the BDFx changes.                                                                                              |
| mediaVersion       | The version of the election. The value changes whenever the content of the BDF changes.                                                    |

## Chapter 2. Contents of individual CSV files

This chapter provides tables containing the contents of each individual CSV file contained in a BDF or a BDFx.

### 2.1 Contents of ballotmapper.csv

Table 2-1. ballotmapper.csv

| Field            | Description                                                                                                                                                                                                                                                                                                                                                                        |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BallotStyleID    | A unique number that identifies a blank (unvoted) ballot. This value identifies the unique combination of contests and candidate order. The ClearDesign EMS copies this value from the ballot's code channel.                                                                                                                                                                      |
| Side             | "1"—the front of a ballot card<br>"2"—the back of a ballot card                                                                                                                                                                                                                                                                                                                    |
| vx               | The virtual horizontal coordinate of a choice's vote target center on a card.                                                                                                                                                                                                                                                                                                      |
| vy               | The virtual vertical coordinate of a choice's vote target center on a card.                                                                                                                                                                                                                                                                                                        |
| ContestID        | A unique integer identifying a given contest.                                                                                                                                                                                                                                                                                                                                      |
| ChoiceID         | A unique integer identifying a particular choice, such as a candidate.<br><br>A candidate can run in a contest under two different parties. In this situation, the same ChoiceID is specified for each party.                                                                                                                                                                      |
| PartyID          | A unique integer that represents a political party.<br><br>The PartyID field contains a comma-separated list of integers, each representing a political party, when the value of the Cross Endorse Type field for the election is <i>On Ballot Once</i> .<br><br>Example: 0,2,3<br><br>In this list, the first PartyID value is always 0, which represents the undetermined party. |
| ChoiceZone_UL_vx | The horizontal virtual coordinate of the upper left corner of a choice zone.                                                                                                                                                                                                                                                                                                       |
| ChoiceZone_UL_vy | The vertical virtual coordinate of the upper left corner of a choice zone.                                                                                                                                                                                                                                                                                                         |
| ChoiceZone_LR_vx | The horizontal virtual coordinate of the lower right corner of a choice zone.                                                                                                                                                                                                                                                                                                      |

Table 2-1. ballotmapper.csv (continued)

| Field            | Description                                                                                                                                                                                                                                                                               |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ChoiceZone_LR_vy | The vertical virtual coordinate of the lower right corner of a choice zone.                                                                                                                                                                                                               |
| Flags            | <p>Flags that describe the attributes of a vote target.</p> <p>(Any bit not listed here is currently undefined and must be zero.)</p> <p>0x00000001 True if the vote target is an oval-less write-in.</p> <p>"1" = automatically set when contests.ContestType = "J" (judge initials)</p> |

## 2.2 Contents of cards.csv

Table 2-2. cards.csv

| Field         | Description                                                                                                                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CardNumber    | Card number in a multiscard ballot, starting with the number 1. For single-card ballots, this value is always 1.                                                                                              |
| BallotStyleID | A unique number that identifies a blank (unvoted) ballot. This value identifies the unique combination of contests and candidate order. The ClearDesign EMS copies this value from the ballot's code channel. |

## 2.3 Contents of choices.csv

Table 2-3. choices.csv

| Field           | Description                                                                                                                                                                                                                                 |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ChoiceID        | <p>A unique integer identifying a particular choice, such as a candidate.</p> <p>A candidate can run in a contest under two different parties. In this situation, the same ChoiceID is specified for each party.</p>                        |
| ContestID       | A unique integer identifying a given contest.                                                                                                                                                                                               |
| ChoiceName      | <p>A unique identifier that indicates the choice. One of the following:</p> <ul style="list-style-type: none"> <li>• A candidate's name</li> <li>• "write-in" for write-in choices</li> <li>• "Yes" or "No" for ballot questions</li> </ul> |
| ChoiceShortName | A short version of ChoiceName (used in some reports).                                                                                                                                                                                       |

**Table 2-3. choices.csv (continued)**

| Field          | Description                                                                                                                                                                                                       |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ChoiceOrder    | A number that controls the order in which the Choices appear in reports generated by the ClearVote products.                                                                                                      |
| ChoiceType     | A unique identifier that indicates the type of choice. One of the following:<br><br>"W"—write-in<br><br>"C"—normal<br><br>"J"—judge initials (automatically set when contests.ContestType = "J" (judge initials)) |
| ChoiceImportID | A unique ID for each record from the import data source, such as a state voter-registration system.                                                                                                               |
| ChoiceExportID | A unique ID for each record used by an external system, such as a statewide results-reporting system.                                                                                                             |

## 2.4 Contents of contestmap.csv

**Table 2-4. contestmap.csv**

| Field             | Description                                                                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BallotStyleID     | A unique number that identifies a blank (unvoted) ballot. This value identifies the unique combination of contests and candidate order. The ClearDesign EMS copies this value from the ballot's code channel. |
| Side              | "1"—the front of a ballot card<br><br>"2"—the back of a ballot card                                                                                                                                           |
| ContestID         | A unique integer identifying a given contest.                                                                                                                                                                 |
| ContestZone_UL_vx | The horizontal virtual coordinate of the upper left corner of a contest zone.                                                                                                                                 |
| ContestZone_UL_vy | The vertical virtual coordinate of the upper left corner of a contest zone.                                                                                                                                   |
| ContestZone_LR_vx | The horizontal virtual coordinate of the lower right corner of a contest zone.                                                                                                                                |
| ContestZone_LR_vy | The vertical virtual coordinate of the lower right corner of a contest zone.                                                                                                                                  |

## 2.5 Contents of contests.csv

Table 2-5. contests.csv

| Field                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ContestID              | A unique integer identifying a given contest.                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ContestName            | Text that names the contest.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ContestShortName       | A short version of the contest name (used in some reports).                                                                                                                                                                                                                                                                                                                                                                                                             |
| ContestFullName        | The full version of the contest name.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| VoteRule               | The maximum number of choices a voter can vote for in the contest.                                                                                                                                                                                                                                                                                                                                                                                                      |
| ContestType            | <p>A unique identifier that indicates the type of contest. One of the following:</p> <p>"C" = Normal contest with candidates</p> <p>"Q" = Question (for example, a referendum)</p> <p>"E" = A question asking for retention (for example, a judge)</p> <p>"R" = Recall contest ("Do you want to recall {Candidate}?")</p> <p>"S" = Straight-party selection contest</p> <p>"P" = Party preference, also known as "pick-a-party"</p> <p>"J" = Judge initials contest</p> |
| PartyID                | <p>A unique integer that represents a political party.</p> <p>The PartyID field contains a comma-separated list of integers, each representing a political party, when the value of the Cross Endorse Type field for the election is <i>On Ballot Once</i>.</p> <p>Example: 0,2,3</p> <p>In this list, the first PartyID value is always 0, which represents the undetermined party.</p>                                                                                |
| StraightPartyContestID | A unique index assigned to the straight-party contest controlling this particular contest.                                                                                                                                                                                                                                                                                                                                                                              |
| PrimaryPartyContestID  | The unique ID of the primary party contest controlling this particular contest.                                                                                                                                                                                                                                                                                                                                                                                         |
| ContestOrder           | A number used to control the order in which contests display in reports.                                                                                                                                                                                                                                                                                                                                                                                                |

**Table 2-5. contests.csv (continued)**

| Field            | Description                                                                                                                                                                                                        |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ReturnOverVoted  | <p>A flag indicating that a ClearCast voter is to be warned if the contest is overvoted. One of the following:</p> <p>"2" = Reject</p> <p>"1" = Warn</p> <p>"0" = No</p> <p>blank = Inherit from metadata.csv</p>  |
| ReturnUnderVoted | <p>A flag indicating that a ClearCast voter is to be warned if the contest is undervoted. One of the following:</p> <p>"2" = Reject</p> <p>"1" = Warn</p> <p>"0" = No</p> <p>blank = Inherit from metadata.csv</p> |
| ReturnBlankVoted | <p>A flag indicating that a ClearCast voter is to be warned if the contest was not voted. One of the following:</p> <p>"2" = Reject</p> <p>"1" = Warn</p> <p>"0" = No</p> <p>blank = Inherit from metadata.csv</p> |
| ContestImportID  | A unique ID for each record from the import data source, such as a state voter-registration system.                                                                                                                |
| ContestExportID  | A unique ID for each record used by an external system, such as a statewide results-reporting system.                                                                                                              |
| DistrictID       | A unique ID for the district associated with the contest.                                                                                                                                                          |

## 2.6 Contents of districtcats.csv

Table 2-6. districtcats.csv

| Field                     | Description                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| DistrictCategoryID        | A unique ID for the district category.                                                                |
| DistrictCategoryName      | The unique name of the district category.                                                             |
| DistrictCategoryShortName | The short version of the DistrictCategoryName (used in some reports).                                 |
| DistrictCategoryOrder     | A number used to control the order in which the district categories appear in some reports.           |
| DistrictCategoryImportID  | A unique ID for each record from the import data source, such as a state voter-registration system.   |
| DistrictCategoryExportID  | A unique ID for each record used by an external system, such as a statewide results-reporting system. |

## 2.7 Contents of districtmap.csv

Table 2-7. districtmap.csv

| Field         | Description                                                                                                                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DistrictID    | A unique ID for the district.                                                                                                                                                                                 |
| PrecinctID    | A unique integer identifying a single precinct. This number comes from the code channel. The jurisdiction chooses this number. This number does not increase monotonically, but it is unique.                 |
| BallotStyleID | A unique number that identifies a blank (unvoted) ballot. This value identifies the unique combination of contests and candidate order. The ClearDesign EMS copies this value from the ballot's code channel. |

## 2.8 Contents of districts.csv

**Table 2-8. districts.csv**

| Field              | Description                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------|
| DistrictID         | A unique ID for the district.                                                                         |
| DistrictCategoryID | A unique ID for the district category.                                                                |
| DistrictName       | The unique name of the district.                                                                      |
| DistrictShortName  | The short version of the DistrictName (used in some reports).                                         |
| DistrictOrder      | A number used to control the order in which the districts appear in some reports.                     |
| DistrictImportID   | A unique ID for each record from the import data source, such as a state voter-registration system.   |
| DistrictExportID   | A unique ID for each record used by an external system, such as a statewide results-reporting system. |

## 2.9 Contents of language.csv

**Table 2-9. language.csv**

| Field        | Description                                                                      |
|--------------|----------------------------------------------------------------------------------|
| LanguageID   | A unique index assigned to each language. Used to link a language and a message. |
| LanguageName | The name of the language.                                                        |

## 2.10 Contents of messages.csv

**Table 2-10. messages.csv**

| Field       | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| MessageID   | A unique index assigned to each message.                                         |
| LanguageID  | A unique index assigned to each language. Used to link a language and a message. |
| MessageText | The text of the message.                                                         |

## 2.11 Contents of metadata.csv

Table 2-11. metadata.csv

| Field                      | Description                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| JurisdictionName           | The name of the voting jurisdiction.                                                                                                                                                                                                                                                                                                                         |
| ElectionName               | The name of the election.                                                                                                                                                                                                                                                                                                                                    |
| ElectionDate               | The date the election will be held.                                                                                                                                                                                                                                                                                                                          |
| ElectionOfficialName       | The name of the person responsible for the management and oversight of the election.                                                                                                                                                                                                                                                                         |
| ElectionOfficialTitle      | The title of the election official.                                                                                                                                                                                                                                                                                                                          |
| parser                     | <p>The name of the ballot type to be tabulated within the ClearVote systems. One of the following:</p> <ul style="list-style-type: none"> <li>• CBG1</li> <li>• Dominion</li> <li>• ESS1</li> <li>• ESS2</li> <li>• Hart</li> <li>• Premier</li> <li>• Sequoia</li> </ul> <p>Note: The value CBG1 indicates an election authored in the ClearDesign EMS.</p> |
| TextRotation               | <p>The degrees that the ballot needs to be rotated to make the text readable.</p> <p>0 =portrait ballots</p> <p>270 = landscape ballots</p>                                                                                                                                                                                                                  |
| StraightPartyType          | <p>The straight-party voting rule. One of the following:</p> <ul style="list-style-type: none"> <li>• "exclusive"</li> <li>• "override"</li> <li>• "combine"</li> <li>• "additive"</li> </ul>                                                                                                                                                                |
| SmallVoteSubtotalThreshold | <p>The threshold below which vote subtotals should not be displayed.</p> <p>Default: 10</p>                                                                                                                                                                                                                                                                  |
| PollOpenReportCopies       | The number of reports for the ClearCast voting stations to print by default when the polls open.                                                                                                                                                                                                                                                             |

**Table 2-11. metadata.csv (continued)**

| Field                            | Description                                                                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| PollCloseReportCopies            | The number of results reports for the ClearCast voting stations to print by default when the polls close.                                               |
| ReturnOverVotedContest           | A flag indicating that a ClearCast voter is to be warned about an overvoted contest.                                                                    |
| ReturnUnderVotedContest          | A flag indicating that a ClearCast voter is to be warned about an undervoted contest.<br><br>This applies only to contests with a vote for more than 1. |
| ReturnBlankVotedContest          | A flag indicating that a ClearCast voter is to be warned about a blank-voted contest.                                                                   |
| ReturnBlankVotedCard             | A flag indicating that a ClearCast voter is to be warned about a blank-voted card.                                                                      |
| ReturnOverVotedSTV               | A flag indicating that a ClearCast voter is to be warned about an overvoted straight-party contest.                                                     |
| ReturnOverVotedPrimaryPreference | A flag indicating that a ClearCast voter is to be warned about an overvoted primary preference contest.                                                 |

## 2.12 Contents of parties.csv

Each row in the parties.csv file represents a political party.

**Table 2-12. parties.csv**

| Field             | Description                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------|
| PartyID           | A unique integer representing a political party.<br><br>The value 0 represents the undetermined party. |
| PartyShortName    | The short version of the party's name (used in some reports).                                          |
| PartyName         | The long version of a party's name.                                                                    |
| PartyOrder        | A number used to control the order in which the parties appear in some reports.                        |
| PartyAbbreviation | An abbreviation for the party (used in some reports).                                                  |

**Table 2-12. parties.csv (continued)**

| Field         | Description                                                                                                                                                  |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PartyImportID | A unique ID for each record from the import data source, such as a state voter-registration system.                                                          |
| PartyExportID | A unique ID for each record used by an external system, such as a statewide results-reporting system.                                                        |
| PartyType     | A unique identifier for the type of party. One of the following: <ul style="list-style-type: none"> <li>• "P"—partisan</li> <li>• "N"—nonpartisan</li> </ul> |

## 2.13 Contents of precincts.csv

**Table 2-13. precincts.csv**

| Field                 | Description                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PrecinctID            | A unique integer identifying a single precinct. This number comes from the code channel. The jurisdiction chooses this number. This number does not increase monotonically, but it is unique.                 |
| BallotStyleID         | A unique number that identifies a blank (unvoted) ballot. This value identifies the unique combination of contests and candidate order. The ClearDesign EMS copies this value from the ballot's code channel. |
| PrecinctReportingName | A short version of the PrecinctName (used in some reports).                                                                                                                                                   |
| PrecinctName          | The long version of the name of the precinct.                                                                                                                                                                 |
| PrecinctOrder         | A number used to control the order in which the precincts appear in some reports.                                                                                                                             |
| PrecinctType          | A unique identifier for the type of precinct. One of the following: <ul style="list-style-type: none"> <li>• "S"—standard</li> <li>• "C"—consolidated</li> </ul>                                              |
| PrecinctImportID      | A unique ID for each record from the import data source, such as a state voter-registration system.                                                                                                           |
| PrecinctExportID      | A unique ID for each record used by an external system, such as a statewide results-reporting system.                                                                                                         |

**Table 2-13. precincts.csv (continued)**

| Field               | Description                                                                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BlankBallotFileName | The name of the input PDF file used to produce this record. This item is used only by the Clear Ballot Automarking Tool (and not by the ClearVote products). |

## 2.14 Contents of regvoters.csv

**Table 2-14. regvoters.csv**

| Field         | Description                                                                                                                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PrecinctID    | A unique integer identifying a single precinct. This number comes from the code channel. The jurisdiction chooses this number. This number does not increase monotonically, but it is unique.                 |
| BallotStyleID | A unique number that identifies a blank (unvoted) ballot. This value identifies the unique combination of contests and candidate order. The ClearDesign EMS copies this value from the ballot's code channel. |
| RegVoters     | The number of registered voters for this BallotStyleID and PrecinctID.                                                                                                                                        |

## 2.15 Contents of votecenters.csv

**Table 2-15. votecenters.csv**

| Field         | Description                                                                                                                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VoteCenterID  | A unique ID assigned to the vote center.                                                                                                                                                                      |
| PrecinctID    | A unique integer identifying a single precinct. This number comes from the code channel. The jurisdiction chooses this number. This number does not increase monotonically, but it is unique.                 |
| BallotStyleID | A unique number that identifies a blank (unvoted) ballot. This value identifies the unique combination of contests and candidate order. The ClearDesign EMS copies this value from the ballot's code channel. |

## 2.16 Contents of votergroups.csv

Table 2-16. votergroups.csv

| Field          | Description                                                                                                                                                                                                  |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VoterGroupID   | <p>An abbreviation that identifies a counter group, which is a category of vote totals used by the jurisdiction.</p> <p>Examples:</p> <p>AB = Absentee</p> <p>ED = Election Day</p> <p>EV = Early voting</p> |
| VoterGroupName | <p>A descriptive name associated with the VoterGroupID.</p> <p>Examples: Absentee, Election Day, Early voting</p>                                                                                            |
| IsReporting    | <p>A flag indicating whether the counter group reports its tabulation results on Election Day.</p>                                                                                                           |