



ALEX PADILLA | SECRETARY OF STATE | STATE OF CALIFORNIA
ELECTIONS DIVISION

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May 1, 2017

County Clerk/Registrar of Voters (CC/ROV) Memorandum #17042

TO: All County Clerks/Registrars of Voters

FROM: /s/ Catherine Ingram-Kelly
VoteCal Program Manager

RE: VoteCal: Duplicate Checks

As you know, VoteCal performs a duplicate match service as part of every new voter registration and any voter registration update coming either from the VoteCal Online Voter Registration service or from the county Election Management System (EMS). The duplicate match service is based on matching criteria that was established during the design of the VoteCal system. In the coming months, VoteCal will be performing work associated with duplicate matching. Specifically, VoteCal will be: (1) modifying the matching criteria; and (2) performing duplicate match clean-up.

Change in Matching Criteria

Based on an evaluation of the validation results of the existing matching criteria since the implementation of VoteCal, feedback from counties, and input from the Business Process Committee, the SOS will be modifying the matching criteria to improve the duplicate match process. The new matching criteria is targeted for implementation in the June 25, 2017, release. Once the new matching criteria is put into production, any new registration or any update to a voter registration will be run through the matching criteria. For your reference, attached is a summary containing the existing and modified matching criteria.

Duplicate Match Cleanup

The SOS will perform cleanup duplicate matching processes starting July 10, 2017, and finishing on or before July 31, 2017. This cleanup duplicate match process is intended to identify duplicate matches in the existing database by applying the new matching criteria to the entire database. VoteCal will be running this in daily increments due to the size and volume of the database. Any matches identified will generate corresponding duplicate messages that will be sent to the counties. We anticipate that statewide approximately 450,000 duplicate match messages will be sent during the

July 10 -31 time period. Please contact the VoteCal Help Desk if you would like an estimate for your anticipated county messages.

Guidance Document

If you have any questions when working potential duplicate match messages and corresponding Merge Voter Determine Survivor (MVDS) and Resolve UID messages, please refer to Guidance: EMS Messages, revision date September 6, 2016, which can be found on the VoteCal Communications Portal.

If you have any questions about how to do any of this functionality in your EMS, contact your EMS Help Desk.

If you have any questions about these requirements, contact the VoteCal Help Desk at 888-868-3225 or via email at VoteCalHelp@sos.ca.gov.

Attachment

Current High Confidence Match Criteria													Current High Confidence Criteria Statistics as of March 2017					
Match Score	CA DL/ID	SSN4	First Name	DOB	Last Name	POB	House Number	Street Name	Middle Name	Suffix	Hit: Single / Multiple	Unique ID Only (HAVA ID)	Match Type	Match Criteria Name	Total Count	Valid Match Percent	Count (first 2 months of 2017)	Valid Match Percent (first 2 months of 2017)
95	Exact	Exact									Single		High confidence	V2V_ID_SSN4_HI	509,552	99.55%	38,246	97.13%
92	Exact	Exact	Exact Same char and order	Exact Exact	Exact Same char and order						Single Single		High confidence	V2V_ID_NAME_DOB_HI	1,897,424	99.59%	128,879	96.92%
89		Exact	Exact Same char and order	Exact Exact	Exact Same char and order						Single Single		High confidence	V2V_SSN4_NAME_DOB_HI	91,048	99.41%	18,184	98.97%
80	Exact			Exact								Exact	High confidence	V2V_ID_HAVA_DOB	343,736	99.30%	26,609	96.53%

Current Potential Match Criteria													Current Potential Match Criteria Statistics as of March 2017					
Match Score	CA DL/ID	SSN4	First Name	DOB	Last Name	POB	House Number	Street Name	Middle Name	Suffix	Hit: Single / Multiple	Unique ID Only (HAVA ID)	Match Type	Match Criteria Name	Total Count	Valid Match Percent	Count (first 2 months of 2017)	Valid Match Percent (first 2 months of 2017)
64			Exact	Exact	Exact				First "1" char.	Same char and order	Both		Potential	V2V_NAME_DOB_MI_SUF	5,050	92.83%	552	87.76%
62	Exact		Same char and order	Exact							Both		Potential	V2V_ID_FNAME_DOB	82,532	96.32%	8,198	94.93%
60		Exact	Same char and order	Exact							Both		Potential	V2V_SSN4_FNAME_DOB	67,553	94.54%	11,926	94.05%
58	Exact			Exact	Same char and order						Both		Potential	V2V_ID_LNAME_DOB	30,712	96.18%	2,967	94.70%
56		Exact		Exact	Same char and order						Both		Potential	V2V_SSN4_LNAME_DOB	36,686	93.50%	4,884	93.38%
54			Same char and order	Same date and month	Same char and order				First "1" char.	Same char and order	Both		Potential	V2V_NAME_PDATE_MI_SUF	664	77.26%	59	80.82%
52			Same char and order	Same month and year	Same char and order	Exact			First "1" char.	Same char and order	Both		Potential	V2V_NAME_PDATE_POB_MI_SUF	254	90.55%	20	100.00%

New Potential Match Criteria													New Potential Match Estimates as of March 2017				
Match Score	CA DL/ID	SSN4	First Name	DOB	Last Name	POB	House Number	Street Name	Middle Name	Suffix	Hit: Single / Multiple	Unique ID Only (HAVA ID)	Match Number (BPC Meeting Reference)	Match Criteria Description	Total Estimated Count (Query)	Valid Match Percent (Sampled)	BPC decision (March 10th 2017)
45			Exact	Exact	Exact						Both		1)	Exact match on First and Last Name and DOB	280,016	74.00%	Add as a potential match
49, 48, 47			Exact	MM/YYYY DD/YYYY DD/MM			Exact	Exact			Both		2a)	Exact match on First Name, Partial DOB, House Number, and Street Name	137,681	76.00%	Add as a potential match
53	Exact		Exact		Exact						Both		3)	Exact match on First Name, Last name and CA Driver's License number	22,075	90.00%	Add as a potential match
n/a			Transposed w/ Last Name	Exact	Transposed w/ First Name						Both		4)	Exact match on Name and DOB where the First and Last name are transposed	10,475	91.00%	Provide a report to the counties at monthly intervals

Key	
Match Criteria that will remain	
Match Criteria that will be retired in June 2017 because subsumed by new match criteria	
New Match Criteria that will be added in June 2017	
Match Criteria that will be generated as a report to the counties	
Match Score - A score used to indicate the anticipated effectiveness of a match criteria set at finding true-positive voter record matches.	